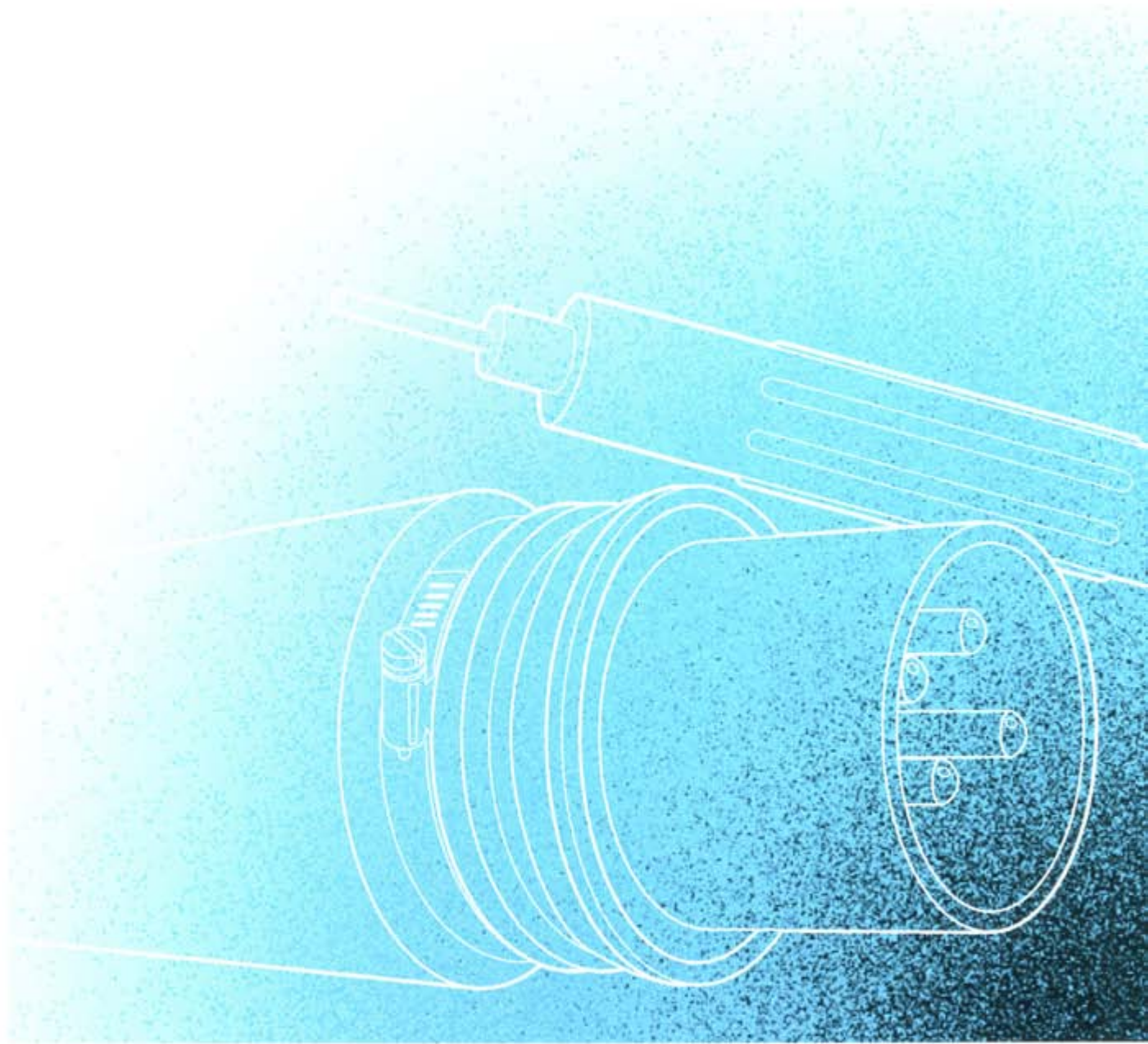


**Crouse-Hinds Molded Products**  
**Aviation, Runway**  
**Lighting and Ramp-Power**  
**Connectors**



**COOPER** Crouse-Hinds

# Crouse-Hinds Aviation Connectors

## Ground power connectors

Crouse-Hinds Molded Products has provided dependable plugs for the aviation industry since 1935. Rugged molded-to-cable plugs stand up to the roughest treatment.

Available for 28 VDC and 115/200 VAC ground power and jet starting applications. Also 600 volt ramp power connectors for 220/440 V applications such as ground support, stand-by air conditioning and hydraulic test stand.

## Rugged construction

The one-piece molded-to-cable construction withstands extreme flexing and protects the conductor connection. Connector material is compounded for maximum abrasion resistance.

## Electrically safe

All metal components are thoroughly isolated by a barrier of molded neoprene. Molded-to-cable units factory pre-wired and inspected. In attachable plugs, rigid wiring barriers protect individual conductors and tight fitting neoprene components assure moisture-tight assemblies.

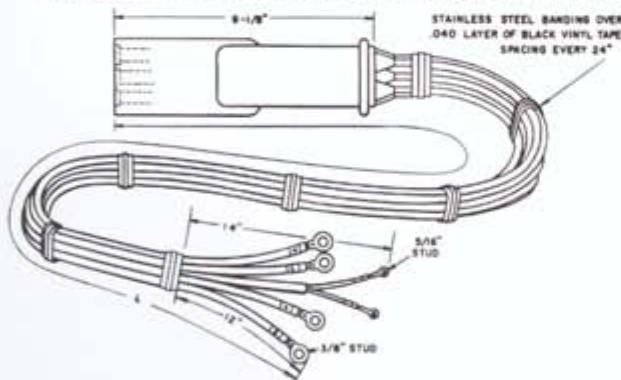
## 28 VDC Aircraft External Power



### CABLE ASSEMBLIES

CROUSE-HINDS NUMBER	ARMY-NAVY NUMBER	LENGTH	CABLE SIZE
X8349-62	AN2551C10	10'	1/0
X8349-56	AN2551C20	20'	1/0
X8349-14	AN2551C30	30'	1/0
X8349-42	AN2551D10	10'	2/0
X8349-43	AN2551D20	20'	2/0
X8349-77	AN2551D30	30'	2/0
X8349-18	AN2551E20	20'	4/0
X8349-47	AN2551E30	30'	4/0

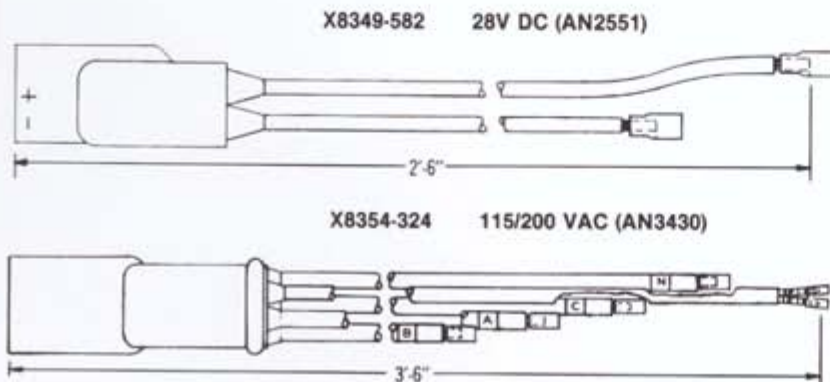
## 115/200 VAC Aircraft External Power



### CABLE ASSEMBLIES

CROUSE-HINDS NUMBER	ARMY-NAVY NUMBER	LENGTH	CABLE SIZE
X8354-36	AN3430-1A	20'	1/0-1/C 12-2/C
X8354-40	AN3430-5	30'	1/0-1/C 12-2/C
X8354-39	AN3430-2A	40'	1/0-1/C 12-2/C
X8354-41	AN3430-7	60'	1/0-1/C 12-2/C

## MOLDED-TO-CABLE REPAIR CONNECTOR KITS



Crouse-Hinds now offers connector kits consisting of a molded-to-cable connector with staggered pigtail leads. Each lead is terminated with a crimp splicing sleeve, ready for field attachment. Heat shrinkable tubing is included for insulating the splice.

The Crouse-Hinds assembly provides all the advantages of molded-to-cable construction, plus the convenience and economy of a field-attachable unit. Just crimp it onto existing cables and shrink tubing into place. No taping or vulcanizing required.

NOTE: Refer to price list for identification of stock items.



# Crouse-Hinds Runway Lighting Connectors

## Electrical Parameters

Single contacts, #6 and #8 AWG  
1/C up to 5000 volts

Field attachable connector kits for 5000V direct burial distribution cable. Meet FAA Spec L823 for use in airport runway lighting circuitry. Also available molded to cable.

Easily and quickly installed providing a versatile cabling system for future maintenance or expansion.

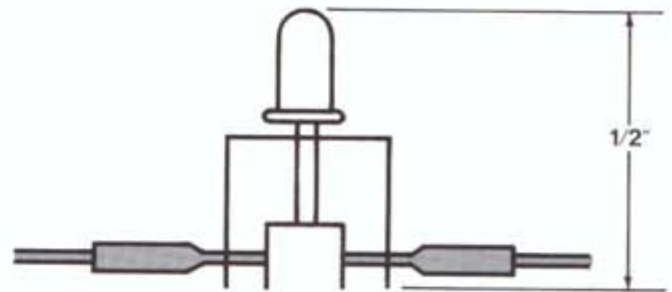
FAA approved Airport Lighting Equipment per AC 150/5345-1.

## Low cost

Low initial cost and fast installation result in savings over other splicing methods.

## No special tools required

Just prepare cable, crimp contacts and plug together.



## Watertight

When properly installed, the close fitting, neoprene sleeves provide a watertight seal.

## Quick disconnect

Connectors are disconnectable when necessary — no permanent splice to cut and reapply.

## Available from stock

Factory and distributor stock eliminate long lead times.



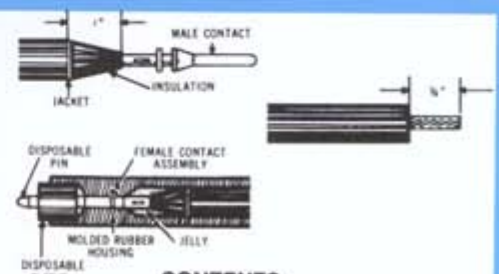
ORDERING REFERENCE				
Max. Voltage	Cable	Cable O.D.	Specifications	Part No.
5000	#8AWG 1/C	.575 to .775	AC 150/5345-26	
5000	#8AWG 1/C	.420 to .575	FAA L823 Style 3 and 10	X8077-257A
5000	#8AWG 1/C	.380 to .410	FAA L823 Style 3 and 10	X8077-301A
5000	#8, #6 AWG 1/C	.575 to .785	FAA L823 Style 3 and 10	X8077-387A
5000	#6AWG 1/C	.575 to .775		X8077-395A
				X8077-342A



NOTE: Refer to prior list for identification of stock items.

## ASSEMBLY INSTRUCTIONS

1. Clean thoroughly portion of cable to be inserted into housing and keep all connector parts clean.
2. Strip insulation from conductor  $\frac{3}{4}$ ".
3. Locate metal fitting in compression tool insert conductor completely into fitting, and compress tool fully.
4. Taper jacket and insulation 1" as illustrated in figure 2.
5. Insert tip of assembled fitting into rubber housing to gather small amount of jelly after removing protective cover. Back assembly out, lightly coat with jelly portion of cable jacket to be inserted, then push straight into place. As assembly snaps into place mark on plug or disposable pin will come into view. (Remove disposable pin and protective sleeve from receptacle with pliers.) Remove excess jelly with clean wiper.
6. Complete electrical connection by inserting plug into receptacle.



## CONTENTS

- 1 - Male Contact, metal.
- 1 - Male Connector Housing, molded rubber.
- 1 - Female Contact Assembly, metal, with disposable pin.
- 1 - Female Connector Housing, molded rubber, with disposable sleeve.

# Crouse-Hinds Ramp-Power Connectors

## Electrical Parameters

4 Power 2 Control Contacts,  
#4 AWG through #4/0 AWG 3/C PCG.  
Up to 600 Volts; 180 Amps.



The Crouse-Hinds Ramp Power Connector is a field attachable plug commonly used for 416/220 volt ramp power application at U.S. Air Force bases. A rugged combination of neoprene and corrosion resistant metal parts form a tough, moisture resistant assembly which will stand up to the roughest treatment.

Both the male and female plug will accommodate from #4 AWG through #4/0 AWG cable. Connector rating up to 180 amps 600 volts.

Plugs may be used together in-line or with stationary receptacles. The female plug will mate with USAF Aircraft Service contractors and flush mounted receptacles. Plugs furnished with rainshield and cable grommets.

MEETS MIL-C - 38159A

MS27285 FEMALE

MS27265 MALE

## Economical

Attach to your own cable; use to repair damaged cable assemblies.

## Fast installation

Takes only a few minutes: prepare cable; tighten conductors in place; secure protective sleeve in place.

## Moisture tight

Tight fitting neoprene components and cable gland assure a moisture tight assembly. When engaged the resilient shroud of the male tightly encloses the female molding affecting a moisture tight seal.

## Safe

All metal components are thoroughly isolated by a barrier of molded neoprene. Rigid wiring barriers protect individual conductors.

## Versatile

Using tight fitting grommets, one plug will accommodate any cable from #4 AWG through #4/0 AWG and cable OD from 1 3/8" to 2 1/8".

## Aircraft service applications

Ground Support, Stand-by Air Conditioning, Hydraulic Test Stands.

### ORDERING REFERENCE

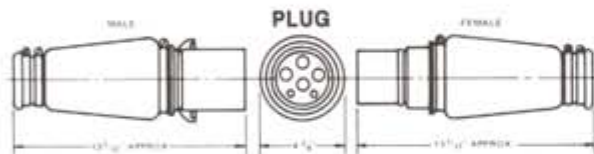
Male Plug X1806-71	Female Plug X1806-70	Female Receptacle X1806-91	Female Insert X1806-62
-----------------------	-------------------------	-------------------------------	---------------------------

The Crouse-Hinds X1806-71 Male Ramp Power plug will mate with common Aircraft Service contractors and flush-mounted receptacles as manufactured by Pyle National and Killark Electric Mfg. Co. It is recommended that the completed cable, connector assembly be rated based on the capacity of the cable.

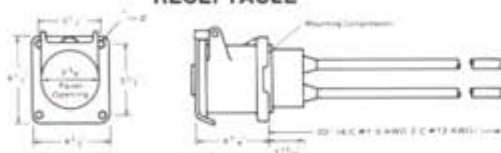
### ASSEMBLY INSTRUCTIONS

1. Slip grommet and outer protective sleeve over cable.
2. Remove cable jacket 7". Skin power and ground lead 3", insert into proper contacts and tighten set screws (two allenhead screws per contact).
3. Skin pilot leads 1/2" and crimp to terminal connector.
4. Slide protective sleeve and grommet forward and thread into place. Tighten hose clamp.

### DIMENSIONS



### RECEPTACLE



Distributed by:



**COOPER** Crouse-Hinds

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FAX: (905) 501-4078

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<http://www.crouse-hinds.com>

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CROUSE-HINDS® MOLDED PRODUCTS

# E2000

S E R I E S

## Power Connectors

Designed for the ultimate  
in reliability and performance.

CROUSE-HINDS  
**cam-lok**<sup>®</sup>  
CONNECTORS

 **COOPER** Crouse-Hinds

## CROUSE-HINDS® MOLDED PRODUCTS

# E2000 Series Power Connectors

Designed for use around the world, Crouse-Hinds E2000 series connectors deliver a new generation of single-pole power connector performance and reliability. The E2000 series provides easy installation, polarized bodies, a J-type locking slot and other unique features to maximize convenience and safety. Additionally, they will mate with all equivalent connectors.

## Applications

- Connects electrical equipment quickly with ultimate safety.
- Use with three-phase motors, generators, load banks, lighting distribution panels and in-house supplies.
- Locations include outdoor concerts, carnivals, sporting events, outdoor television broadcasts, theatres, electricity supply companies and many heavy industrial environments such as mining and construction.
- Designed and tested to conform with European and USA electrical safety standards and specifications.

## Features

**Field Installable**—Easy to use, no special tools required.

**Dead-Front Male Source Contacts**—Insulating tip on male prevents exposure to live components. Spring-loaded female drain contacts also available. Patent pending.

**High-Conductivity Contacts**—Made from high-copper-content material to maximize conductivity and minimize heat rise.

**Polarized Connector Bodies**—Each phase is uniquely keyed to prevent cross mating.

**Waterproof**—Connectors are rated for IP67 when mated.

**Wide-Range Cable Gland**—Strain relief and moisture seal on a wide range of cables.

**J-Type Locking Slots**—J-Type locking slots assure connectors stay locked together.

**Locking Pins**—Spring-loaded locking pin may be used for supplemental connector body locking.

**Color Options**—Full range of colors available for UK, USA, Australian and European standards.

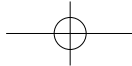
**Impact-Resistant Insulators**—Made from high-grade, thermoplastic material.

**Multilouvered Contact Band**—Assures high conductivity and ease of engagement.

**Conductor-Specific Contacts**—Line connector contacts are sized for specific conductors to ease installation and improve performance.





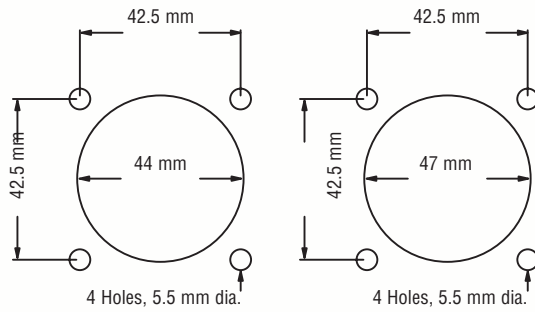


## Specifications

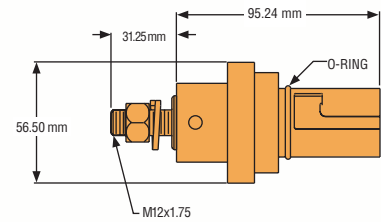
Parameter	Rating
Maximum Current Rating	400 Amp
Maximum Rated Voltage to Earth	2 kVAC/3 kVDC
Leakage Current	IP1X Line & Panel Drain
Operating Temperature Range	-30° to 90°C
Insulation Resistance	>10 MΩ@500 VDC
Ingress Protection (mated)	IP67
Protection Against Shock	IP2X Line & Panel Source
Flammability	UL94-V0

## Dimensions

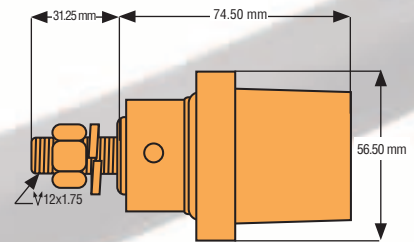
### Cutout for Panel Source Cutout for Panel Drain



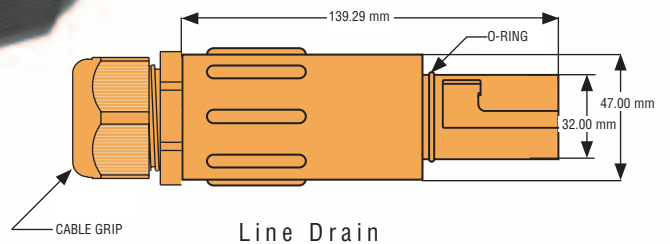
## Standard Formats



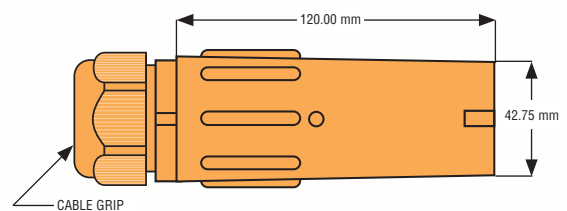
Panel Drain



Panel Source

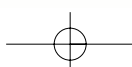


Line Drain



Line Source

**COOPER** Crouse-Hinds



# Ordering Information

## CODING OPTIONS

	Earth	Neutral	Line 1	Line 2	Line 3
<b>UK</b>	Green	Black	Red	Yellow	Blue
<b>Europe</b>	Green	Blue	Brown	Black	Gray
<b>USA</b>	Green	White	Black	Red	Blue
<b>Australia</b>	Green	Black	Red	White	Blue

## PART NUMBER MATRIX

Base	Contact Size	Type/Gender	Phase	Color
E2000-	Universal Receptacle Contact = 1*	Line Source Male Plug = 1	L1 = 1	Brown = 1
E2000B-	70 mm <sup>2</sup> = 2	Line Drain Female Plug = 2	L2 = 2	Black = 2
E2000C-	95 mm <sup>2</sup> = 3	Panel Source Male Receptacle = 3	L3 = 3	Gray = 3
	120 mm <sup>2</sup> = 4*	Panel Drain Female Receptacle = 4	Neutral = 4	Blue = 4
	150 mm <sup>2</sup> = 5*		Earth = 5	Green = 5
	300 mm <sup>2</sup> = 6*			Red = 6
				Yellow = 7
				White = 8

\*For copper contacts add a "C" to the end of the part number.

Use the Part Number Matrix to develop Item Numbers for either Line Source, Line Drain, Panel Source, or Panel Drain configurations that meet your local code requirements.

Example: 120 mm<sup>2</sup>, Line Source, for European Phase 1 Applications

E2000 4 1 1 1 E2000-4111

## TYPICAL EUROPEAN PLUGS WITH 120 mm<sup>2</sup> CONTACTS & EUROPEAN RECEPTACLES WITH UNIVERSAL CONTACTS

		Line Source (Male Plug)			Line Drain (Female Plug)		
		COMPLETE CAT. #	COMPONENTS		COMPLETE CAT. #	COMPONENTS	
			CONTACT ONLY CAT. #	INSULATOR ONLY CAT. #		CONTACT ONLY CAT. #	INSULATOR ONLY CAT. #
BROWN	L1	E2000-4111	E2000C-41	E2000B-111	E2000-4211	E2000C-42	E2000B-211
BLACK	L2	E2000-4122	E2000C-41	E2000B-122	E2000-4222	E2000C-42	E2000B-222
GRAY	L3	E2000-4133	E2000C-41	E2000B-133	E2000-4233	E2000C-42	E2000B-233
BLUE	N	E2000-4144	E2000C-41	E2000B-144	E2000-4244	E2000C-42	E2000B-244
GREEN	EARTH	E2000-4155	E2000C-41	E2000B-155	E2000-4255	E2000C-42	E2000B-255

		Panel Source (Male Receptacle)			Panel Drain (Female Receptacle)		
		COMPLETE CAT. #	COMPONENTS		COMPLETE CAT. #	COMPONENTS	
			CONTACT ONLY CAT. #	INSULATOR ONLY CAT. #		CONTACT ONLY CAT. #	INSULATOR ONLY CAT. #
BROWN	L1	E2000-1311	E2000C-13	E2000B-311	E2000-1411	E2000C-14	E2000B-411
BLACK	L2	E2000-1322	E2000C-13	E2000B-322	E2000-1422	E2000C-14	E2000B-422
GRAY	L3	E2000-1333	E2000C-13	E2000B-333	E2000-1433	E2000C-14	E2000B-433
BLUE	N	E2000-1344	E2000C-13	E2000B-344	E2000-1444	E2000C-14	E2000B-444
GREEN	EARTH	E2000-1355	E2000C-13	E2000B-355	E2000-1455	E2000C-14	E2000B-455

Other part numbers available. See Part Number Matrix above.

## ACCESSORIES

Dead-Front Female Accessory Kit E2000-DFK

Secondary Locking Kit

E2000-SLK



### For more information:

If further assistance is required, please contact an authorized Crouse-Hinds Distributor, Crouse-Hinds Sales Office or Crouse-Hinds Customer Service Department.

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CROUSE-HINDS® MOLDED PRODUCTS

# Cam-Lok® Connectors

## E-Z1016™ SERIES

**NEW**  
from Crouse-Hinds

Crouse-Hinds® Cam-Lok Connectors, originator of the Cam-Lok Contact System, introduces the new E-Z1016 “J” Series Connectors. The E-Z1016 series has been developed to provide you with faster and easier assembly and disassembly. The E-Z Series is intermateable with our existing E1016 Series Connectors and uses existing E1016 contacts.

### PRODUCT FEATURES:

- Meets 1999 National Electrical Code® standards for locking-type connectors
- Designed to accommodate a wide range of cable sizes and amp ratings
- High-dielectric insulating sleeves provide durable long-term service for maximum safety
- Improved color-coded sleeves for E-Z phase identification
- E-Z assembly with a standard screwdriver
- E-Z disassembly for field repair and reuse
- Original Cam-Lok action for high conductivity
- Uses standard E1016 contacts
- UL Listed for raintight applications
- Increased amp ratings on 2/0 and 4/0 assemblies
  - 2/0 crimp and double-set screw, 300 amps
  - 4/0 crimp and double-set screw, 400 amps

**New robust locking ring made from high-tech fiberglass-reinforced material, is as strong as many metals. New design goes all the way around the contact for added strength.**

**Redesigned drive pin increases torque and longitudinal strength 300%. Contact drive pin easily aligns and locates with slot in ring. No holes in contact to align.**

**Non-metallic retaining screw made from high-tech fiberglass-reinforced material provides superior strength and durability.**

**Retaining screw snaps into insulating sleeve to prevent loss.**

### TECHNICAL SPECIFICATIONS:

UL Listed & CSA Certified

NEMA 3R and 4 rated

Voltage Rating: 600V maximum

Amperage Rating: 400 Amp maximum

Base Compound: TPE (Santoprene) 105°C rated

Contact Material: Copper Alloy ASTM B16

The new E-Z1016 series features heavy-duty construction that incorporates state-of-the-art, high-quality materials to insure the trouble-free, reliable service you have been able to depend on with Cam-Lok products. Cam-Lok Connectors are only listed when used with genuine Crouse-Hinds Cam-Lok Connectors.

Patent Pending

**COOPER** Crouse-Hinds  
Solutions. Worldwide.™

CROUSE-HINDS® MOLDED PRODUCTS



# Cam-Lok® Connectors

## E-Z1016™ SERIES

**Connectors and Accessories for cable size #2-4/0, 600 volts, rated up to 400 amperes continuous**

### PART NUMBER MATRIX

			MALE PLUG			FEMALE PLUG		
AMP	COLOR	CABLE SIZE	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.
190	BLACK	#2-#1	E-Z1016-8006	A200036-18	E-Z200074-19	E-Z1016-8056	A200037-23	E-Z200075-19
	RED		E-Z1016-8008	A200036-18	E-Z200074-21	E-Z1016-8058	A200037-23	E-Z200075-21
	GREEN		E-Z1016-8010	A200036-18	E-Z200074-23	E-Z1016-8060	A200037-23	E-Z200075-23
	WHITE		E-Z1016-8011	A200036-18	E-Z200074-24	E-Z1016-8061	A200037-23	E-Z200075-24
	BLUE		E-Z1016-7700	A200036-18	E-Z200074-38	E-Z1016-7716	A200037-23	E-Z200075-44
300	BLACK	1/0-2/0	E-Z1016-8018	A200038-11	E-Z200074-60	E-Z1016-8068	A200035-17	E-Z200075-60
	RED		E-Z1016-8020	A200038-11	E-Z200074-62	E-Z1016-8070	A200035-17	E-Z200075-62
	GREEN		E-Z1016-8022	A200038-11	E-Z200074-64	E-Z1016-8072	A200035-17	E-Z200075-64
	WHITE		E-Z1016-8023	A200038-11	E-Z200074-65	E-Z1016-8073	A200035-17	E-Z200075-65
	BLUE		E-Z1016-7704	A200038-11	E-Z200074-66	E-Z1016-7720	A200035-17	E-Z200075-66
400	BLACK	3/0-4/0	E-Z1016-8030	A200038-6	E-Z200074-60	E-Z1016-8080	A200035-14	E-Z200075-60
	RED		E-Z1016-8032	A200038-6	E-Z200074-62	E-Z1016-8082	A200035-14	E-Z200075-62
	GREEN		E-Z1016-8034	A200038-6	E-Z200074-64	E-Z1016-8084	A200035-14	E-Z200075-64
	WHITE		E-Z1016-8035	A200038-6	E-Z200074-65	E-Z1016-8085	A200035-14	E-Z200075-65
	BLUE		E-Z1016-7708	A200038-6	E-Z200074-66	E-Z1016-7724	A200035-14	E-Z200075-66
300	BLACK	#2-2/0	E-Z1016-8350	A200630-1	E-Z200074-19	E-Z1016-8375	A200640-3	E-Z200075-19
	RED		E-Z1016-8352	A200630-1	E-Z200074-21	E-Z1016-8377	A200640-3	E-Z200075-21
	GREEN		E-Z1016-8354	A200630-1	E-Z200074-23	E-Z1016-8379	A200640-3	E-Z200075-23
	WHITE		E-Z1016-8355	A200630-1	E-Z200074-24	E-Z1016-8380	A200640-3	E-Z200075-24
	BLUE		E-Z1016-8356	A200630-1	E-Z200074-38	E-Z1016-8381	A200640-3	E-Z200075-44
400	BLACK	2/0-4/0	E-Z1016-8362	A200639-1	E-Z200074-60	E-Z1016-8387	A200641-1	E-Z200075-60
	RED		E-Z1016-8364	A200639-1	E-Z200074-62	E-Z1016-8389	A200641-1	E-Z200075-62
	GREEN		E-Z1016-8366	A200639-1	E-Z200074-64	E-Z1016-8391	A200641-1	E-Z200075-64
	WHITE		E-Z1016-8367	A200639-1	E-Z200074-65	E-Z1016-8392	A200641-1	E-Z200075-65
	BLUE		E-Z1016-8368	A200639-1	E-Z200074-66	E-Z1016-8393	A200641-1	E-Z200075-66

**For more information:**

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CROUSE-HINDS® MOLDED PRODUCTS

# Cam-Lok® Connectors

## E-Z1018™ SERIES

**NEW**  
from Crouse-Hinds

Crouse-Hinds® Cam-Lok Connectors, originator of the Cam-Lok Contact System, introduces the new E-Z1018 "J" Series Connectors. The E-Z1018 series has been developed to provide you with faster and easier assembly and disassembly. The E-Z Series is intermateable with our existing E1018 Series Connectors and uses existing E1018 contacts.

### PRODUCT FEATURES:

- Meets 1999 National Electrical Code® standards for locking-type connectors
- Designed to accommodate a wide range of cable sizes and amp ratings
- High-dielectric insulating sleeves provide durable long-term service for maximum safety
- Improved color-coded sleeves for E-Z phase identification
- E-Z assembly with a standard screwdriver
- E-Z disassembly for field repair and reuse
- Original Cam-Lok action for high conductivity
- Uses standard E1018 contacts

New robust locking ring made from high-tech fiberglass-reinforced material, is as strong as many metals. New design goes all the way around the contact for added strength.

Redesigned drive pin increases torque and longitudinal strength 300%. Contact drive pin easily aligns and locates with slot in ring. No holes in contact to align.

Nonmetallic retaining screw made from high-tech fiberglass-reinforced material provides superior strength and durability.

Retaining screw snaps into insulating sleeve to prevent loss.



### TECHNICAL SPECIFICATIONS:

CSA Certified  
NEMA 3R rated  
Voltage Rating: 600 V maximum

Amperage Rating: 400 Amp maximum  
Base Compound: TPE (Santoprene) 105°C rated  
Contact Material: Copper Alloy ASTM B16

The new E-Z1018 series features heavy-duty construction that incorporates state-of-the-art, high-quality materials to insure the trouble-free, reliable service you have been able to depend on with Cam-Lok products. Cam-Lok Connectors are only certified when used with genuine Crouse-Hinds Cam-Lok Connectors.

Patent Pending

**COOPER** Crouse-Hinds

Solutions. Worldwide.™

CROUSE-HINDS® MOLDED PRODUCTS

# Cam-Lok® Connectors

## E-Z1018™ SERIES



Connectors and Accessories for cable size #2-4/0, 600 volts, rated up to 400 amperes continuous

### PART NUMBER MATRIX

			MALE PLUG			FEMALE PLUG		
	COLOR	CABLE SIZE	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.
SINGLE SET-SCREW	BLACK	#2-2/0	E-Z1018-8300	A200065-1	E-Z200071-19	E-Z1018-8325	A200067-4	E-Z200072-19
	RED	#2-2/0	E-Z1018-8302	A200065-1	E-Z200071-21	E-Z1018-8327	A200067-4	E-Z200072-21
	GREEN	#2-2/0	E-Z1018-8304	A200065-1	E-Z200071-23	E-Z1018-8329	A200067-4	E-Z200072-23
	WHITE	#2-2/0	E-Z1018-8305	A200065-1	E-Z200071-24	E-Z1018-8330	A200067-4	E-Z200072-24
	BLUE	#2-2/0	E-Z1018-8306	A200065-1	E-Z200071-37	E-Z1018-8331	A200067-4	E-Z200072-37
	BLACK	#2/0-4/0	E-Z1018-8312	A200064-1	E-Z200071-13	E-Z1018-8337	A200090-2	E-Z200072-13
	RED	#2/0-4/0	E-Z1018-8314	A200064-1	E-Z200071-15	E-Z1018-8339	A200090-2	E-Z200072-15
	GREEN	#2/0-4/0	E-Z1018-8316	A200064-1	E-Z200071-17	E-Z1018-8341	A200090-2	E-Z200072-17
	WHITE	#2/0-4/0	E-Z1018-8317	A200064-1	E-Z200071-18	E-Z1018-8342	A200090-2	E-Z200072-18
	BLUE	#2/0-4/0	E-Z1018-8318	A200064-1	E-Z200071-38	E-Z1018-8343	A200090-2	E-Z200072-38
			MALE PLUG			FEMALE PLUG		
	COLOR	CABLE SIZE	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.
DOUBLE SET-SCREW	BLACK	#2-2/0	E-Z1018-8350	A200630-1	E-Z200071-19	E-Z1018-8375	A200640-4	E-Z200072-19
	RED	#2-2/0	E-Z1018-8352	A200630-1	E-Z200071-21	E-Z1018-8377	A200640-4	E-Z200072-21
	GREEN	#2-2/0	E-Z1018-8354	A200630-1	E-Z200071-23	E-Z1018-8379	A200640-4	E-Z200072-23
	WHITE	#2-2/0	E-Z1018-8355	A200630-1	E-Z200071-24	E-Z1018-8380	A200640-4	E-Z200072-24
	BLUE	#2-2/0	E-Z1018-8356	A200630-1	E-Z200071-37	E-Z1018-8381	A200640-4	E-Z200072-37
	BLACK	#2/0-4/0	E-Z1018-8362	A200639-1	E-Z200071-13	E-Z1018-8387	A200641-2	E-Z200072-13
	RED	#2/0-4/0	E-Z1018-8364	A200639-1	E-Z200071-15	E-Z1018-8389	A200641-2	E-Z200072-15
	GREEN	#2/0-4/0	E-Z1018-8366	A200639-1	E-Z200071-17	E-Z1018-8391	A200641-2	E-Z200072-17
	WHITE	#2/0-4/0	E-Z1018-8367	A200639-1	E-Z200071-18	E-Z1018-8392	A200641-2	E-Z200072-18
	BLUE	#2/0-4/0	E-Z1018-8368	A200639-1	E-Z200071-38	E-Z1018-8393	A200641-2	E-Z200072-38

**For more information:**

If further assistance is required, please contact an authorized Crouse-Hinds Distributor, Crouse-Hinds Sales Office or Crouse-Hinds Customer Service Department.

**In the U.S.:**

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(252) 566-3014 FAX: (252) 566-9337

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Crouse-Hinds Canada  
5925 McLaughlin Road  
Mississauga, Ontario  
Canada L5R 1B8  
(905) 507-4187 FAX: (905) 501-4078

**For the latest in new products and services, visit our web site at:**

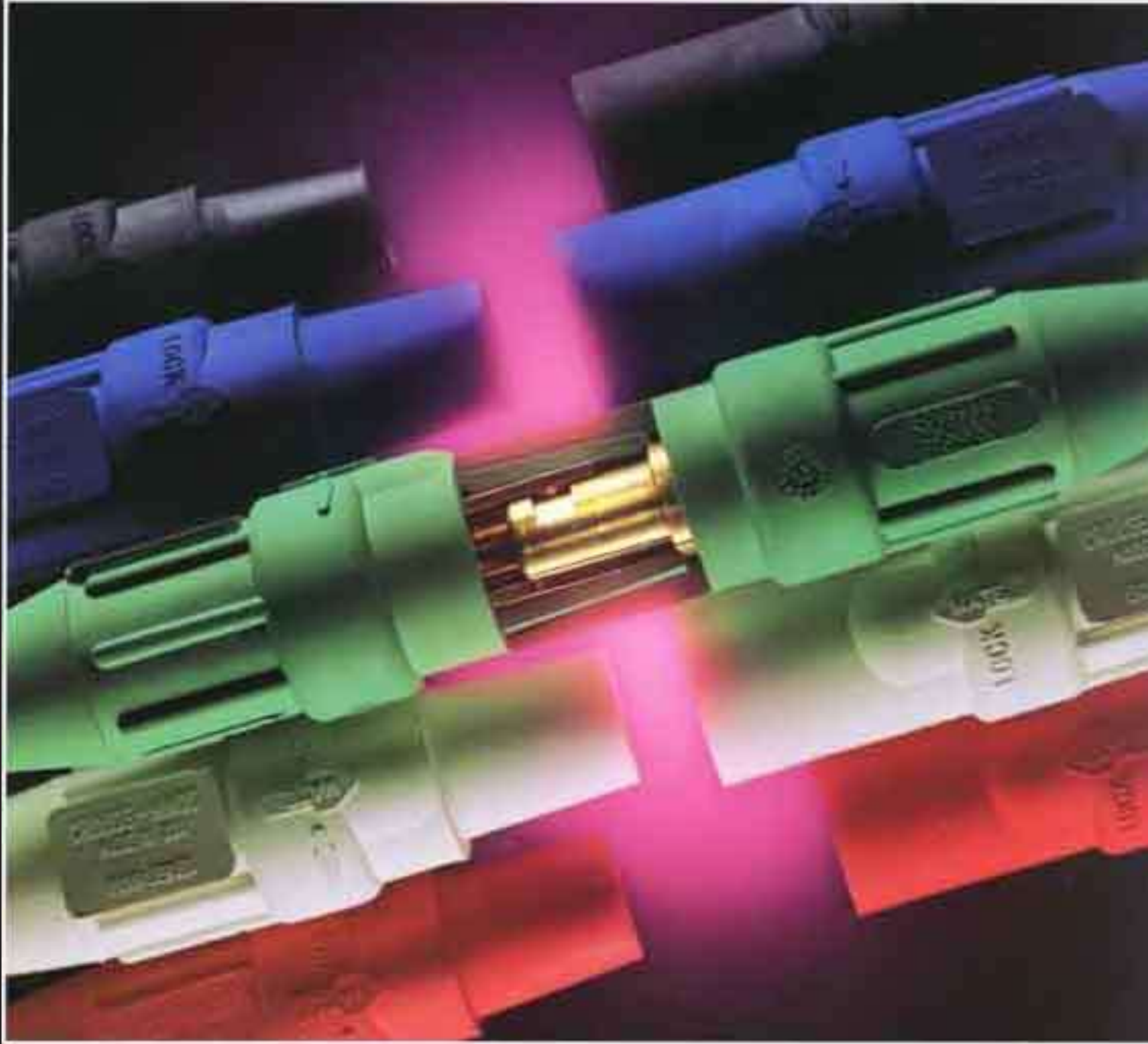
[www.crouse-hinds.com](http://www.crouse-hinds.com)





**“J” POWER SERIES™**  
SINGLE POLE CABLE CONNECTORS

CROUSE-HINDS  
**cam-lok**  
CONNECTORS



**COOPER** Crouse-Hinds

# Cam-Lok "J" Power Series



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COVER PHOTO — Cutaway of the exclusive locking feature of the Crouse-Hinds CAM-LOK "J" Power Series connector.

Crouse-Hinds Cam-Lok single pole connectors are specially designed to provide the ultimate in reliable service even under the most severe operating conditions.

These single pole plugs and receptacles are insulated in a specially formulated elastomeric material for watertightness and safety. They allow you to connect or disconnect electrical equipment instantly without tools. Cam-Lok connectors are the industry standard for motors, generators, indoor and outdoor lighting distribution panels, and numerous other power applications.

Crouse-Hinds Cam-Lok "J" Series plugs are available in two styles: field-attachable non-vulcanized and field-attachable vulcanized. Both meet NEMA 3R requirements. The "J" Power Series offers a choice of three cable ranges:

E1015 Series — For cable size #8-4, 600 volts, rated up to 150 amperes continuous.

E1016 Series — For cable size #2-4/0, 600 volts, rated up to 400 amperes continuous.

E1017 Series — For cable size 350-750CM, 600 volts, rated up to 690 amperes continuous.

With "J" Power connectors you get:  
**EXCLUSIVE CAM-LOK ACTION FOR HIGH CONDUCTIVITY** — Cam-Lok's double cam principle provides a positive, vibration proof connection. Just 1/3 of a turn assures a high pressure contact approaching 600 lbs. per sq./in. providing minimum resistance. It gives the best electrical and mechanical connection possible. There is no moving of contact surfaces and therefore, no arcing or burning of contacts. The contacts are a high conductivity copper base alloy carefully machined to a smooth sliding fit, even before locking. **SELF-COMPENSATING** for wear. Locked contacts will withstand a pulling force of 1000 lbs.

**RECESSED CONTACTS** — Thermoplastic rubber or neoprene insulated jacket extends past end of both male and female contacts for insulation and safety.

**COLOR CODED INSULATORS** — All insulators are molded from colorfast material. The five different colors provide fast, easy phase identification.

**SAFETY INSULATED PANEL RECEPTACLES** — Panel mounted receptacles permit cable to be quickly connected or disconnected. Available in both male and female receptacles, they are insulated for direct mounting to steel panels thus eliminating costly insulating boards and reducing assembly time. They come with a threaded stud for lug connection or double set screws for connecting cable directly.

**INTERCONNECTIBILITY** — All connectors within a series have the same connection diameter allowing you to connect smaller cables to larger ones. For example, in the E1016 Series you can connect a #2 to a 4/0 cable connector without an adapter.

Series	Connection Diameter	Cable Range
E1015	3/8"	#8-#4
E1016	11/16"	#2-4/0
E1017	1 1/8"	350-750 MCM



## Meets 1993 NEC® Code

Crouse-Hinds Cam-Lok connectors are designed to meet 1993 NEC® Code requirements for listed connectors that are of the locking type. Cam-Lok "J" Power Series connectors provide the means to quickly connect and disconnect power systems safely at concerts and carnivals, as well as connecting generators, standby power, and load testing in hospitals, utilities, and heavy industrial environments. **They are UL Listed and CSA Certified.\***



Entertainment



Utilities

Carnivals

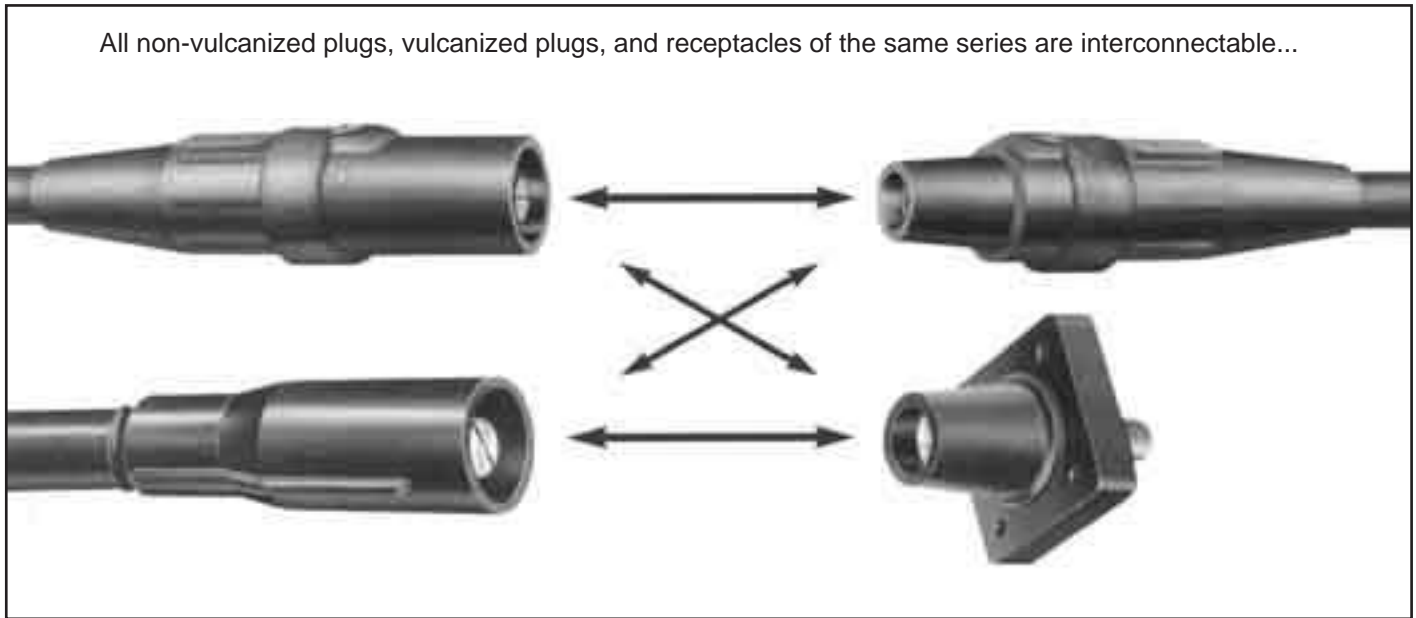
**\*Cam-Lok "J" Power Series connectors are UL Listed and CSA Certified only when used with genuine Crouse-Hinds Cam-Lok listed connectors.**



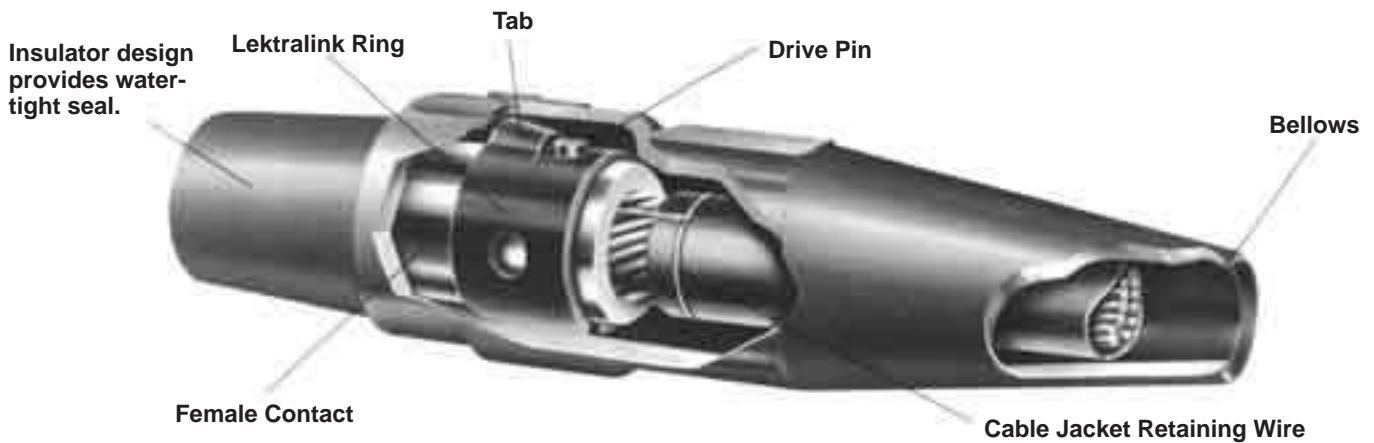
Construction/Industrial/Mining

# Field-attachable Plugs

**Two styles: non-vulcanized plugs and vulcanized plugs.**



## Non-vulcanized Plugs



**SAFE, EASY ASSEMBLY** — Crouse-Hinds E1016 Power Series non-vulcanized style plugs feature the exclusive Lektralink™ principle.\* The lektralink design permits assembly to cables in seconds without vulcanization and without exposed set screws or pins.

The locking ring is permanently molded into the insulator. (See illustration above). The ring, made of high strength material, cannot cause inductive heating. As the contact is pulled into the insulator a drive pin is captured by the ring, locking the contact into an immovable position. That's all there is to it!

\*The E1015 Series features friction fit attachment. The E1017 Series features mechanical clamp attachment.

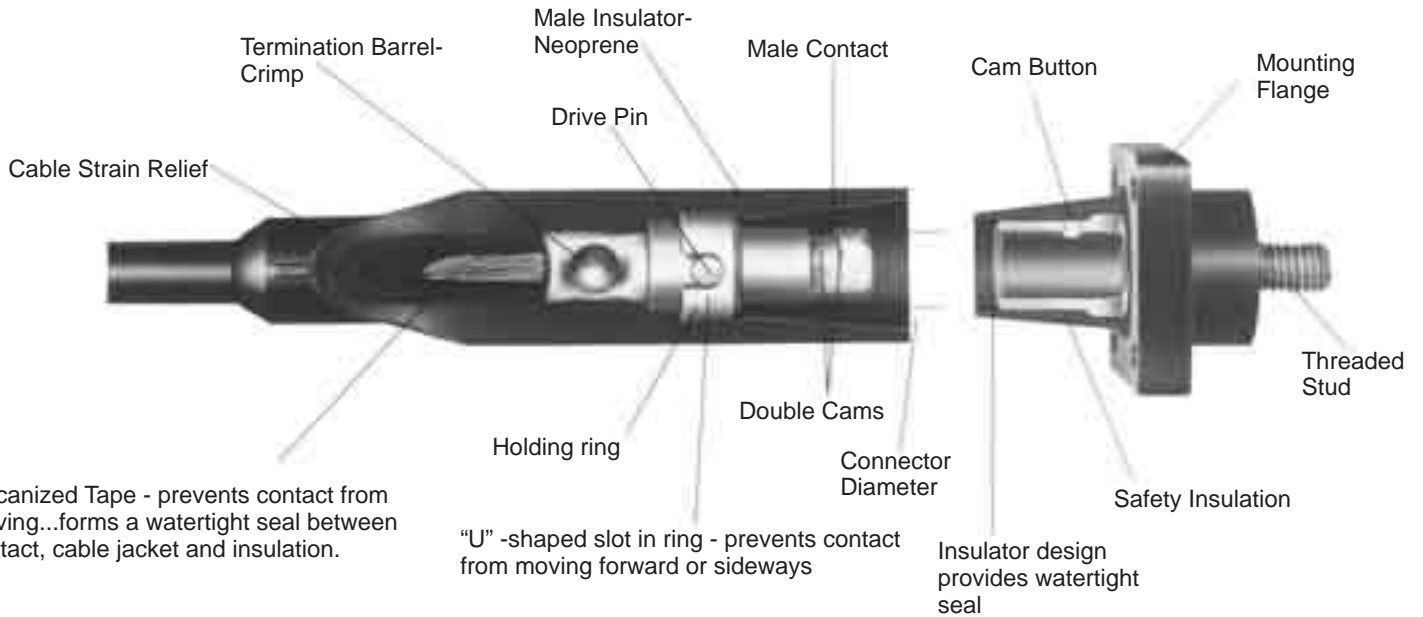
**EASE OF DISASSEMBLY** — Disassembly is just as easy. Insert a 3/16" wide screw driver between the contact and insulator, raise the tab on the locking ring and pull the contact from the insulator. Refer to instruction sheet #EB9 packed in each carton.

**LESS DOWNTIME, MORE RELIABILITY** — Crouse-hinds strain relief system distributes flexing over a wide area. A retaining wire prevents cable jacket from pulling away from contacts exposing dangerous bare wires.

The insulator material is specially formulated to provide superior heat, weather, ozone, and abrasion resistance.



# Vulcanized Plugs



## Vulcanizing has many advantages...

### Five simple steps give you Molded-to-Cable Plugs.

**WATERPROOF** — Prevents corrosion, freezing of connectors, or internal corrosion of cable strands.

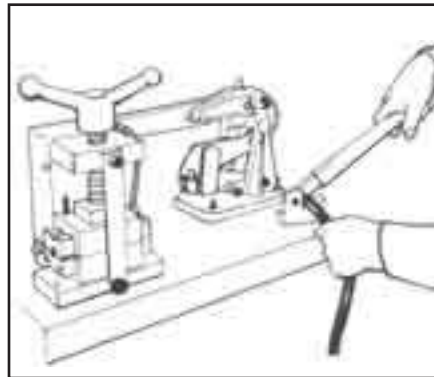
**REDUCES CABLE BREAKAGE** — Vulcanization distributes flexing over a wide area to provide an effective strain relief system.

**SAFE** — Minimizes shorts and shock hazards. Plug insulator is permanently vulcanized to cable so that cable jacket cannot pull away from connection exposing dangerous bare conductor. Can be used outdoors in all kinds of weather. Even around water your connections remain dry and safe.

**SHATTER RESISTANT** — Insulators will not shatter or crack and are resistant to oil, gasoline, etc. Connections will withstand the impact of trucks or heavy plates without damage.

**5 STEP PROCESS TAKES ONLY 7 MINUTES...** Crouse-Hinds Portable Vulcanizing Press produces virtually indestructible cable connectors in

your own plant or in the field. You need only four inexpensive parts to make one pair of connectors.



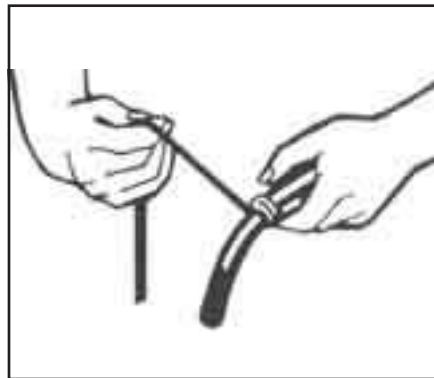
1. CUT CABLE, strip jacket. Insert bare wire in contact crimping tube.



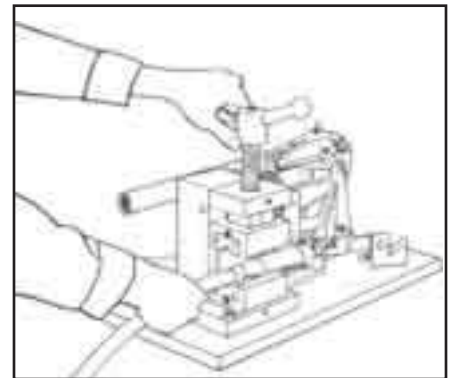
2. CRIMP contact to cable.



3. WRAP CRIMP TUBE and cable with uncured tape. Pull into insulator with COM-A-LONG tool.




4. WRAP UNCURED TAPE AROUND JOINT, sealing insulator to cable jacket.





5. MOLD. (5 steps take 7 minutes)... repeat process with other half of connector. Refer to EB #90 for detailed instructions.

# E1015 Series


Connectors and Accessories for cable size #8-#4, 600 volts, rated up to 150 amperes continuous

NON-VULCANIZED			MALE PLUG			FEMALE PLUG		
	COLOR	CABLE SIZE	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.
 MALE SET-SCREW FEMALE	BLACK	#8-#4	E1015-8306	A100864-1	A1000869-7	E1015-8331	A100865-1	A1000868-7
	RED		E1015-8308			A1000869-9		E1015-8333
GREEN	E1015-8310		A1000869-11			E1015-8335		A1000868-11
WHITE	E1015-8311		A1000869-12			E1015-8336		A1000868-12
	BLUE		E1015-8313	A1000869-14	E1015-8338		A1000868-14	

VULCANIZED			MALE PLUG			FEMALE PLUG			
	COLOR	CABLE SIZE	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.	
 MALE CRIMP FEMALE	BLACK	#8-#4	E1015-1	A100087-1	A100092-1	E1015-50	A100088-1	A100093-1	
	RED		E1015-3			A100092-3		E1015-52	A100093-3
	GREEN		E1015-5			A100092-5		E1015-54	A100093-5
	WHITE		E1015-6			A100092-6		E1015-55	A100093-6
	BLUE		E1015-19			A100092-7		E1015-47	A100093-14


		MALE RECEPTACLE		FEMALE RECEPTACLE	
	COLOR	CABLE SIZE	COMPLETE PART NO.	COMPLETE PART NO.	
 MALE FEMALE	BLACK	#8-#4	E1015-1600		E1015-1625
	RED		E1015-1602		E1015-1627
	GREEN		E1015-1604		E1015-1629
	WHITE		E1015-1605		E1015-1630
	BLUE		E1015-1606		E1015-1631

1 3/8" Dia. Bolt Hole Center Line      7/8" Dia. Thru Hole





Bolt Holes 3/16" Dia.      1 7/8" FLANGE O.D.

MOUNTING DIMENSIONS      Threaded stud size 5/16"-18

FEMALE TERMINAL CONNECTORS				
	COLOR	CABLE SIZE	ANGLE STYLE COMPLETE PART NO.	OFFSET STYLE COMPLETE PART NO.
 ANGLE STYLE      OFFSET STYLE	BLACK	#8-#4	E1015-575	E1015-625
	RED		E1015-577	E1015-627
	GREEN		E1015-579	E1015-629
	WHITE		E1015-580	E1015-630
	BLUE		E1015-581	E1015-631

Stud hole size 5/16"

THREE WAY "T" CONNECTORS				
	COLOR	PARALLELING "T" COMPLETE PART NO.	TAPPING "T" COMPLETE PART NO.	DOUBLE FEMALE COMPLETE PART NO.
 PARALLELING "T" (MALE-MALE-FEMALE)      TAPPING "T" (MALE-FEMALE-FEMALE)      DOUBLE FEMALE	BLACK	E1015-2324	E1015-2312	E1015-2352
	RED	E1015-2326	E1015-2314	E1015-2354
	GREEN	E1015-2328	E1015-2316	E1015-2356
	WHITE	E1015-2329	E1015-2317	E1015-2357
	BLUE	E1015-2348	E1015-2350	E1015-2358

PROTECTIVE CAPS			
	COLOR	COMPLETE PART NO.	DESCRIPTION
 MALE      FEMALE	BLACK	A100793-1	CAP FOR MALE
	BLACK	A100792-1	CAP FOR FEMALE

Connectors and Accessories for cable size #2-4/0,  
600 volts, rated up to 400 amperes continuous\*

# E1016 Series

NON-VULCANIZED		MALE PLUG			FEMALE PLUG		
COLOR	CABLE SIZE	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.
BLACK	#2-#1	E1016-8006	A200036-18	A200074-19	E1016-8056	A200037-23	A200075-19
RED		E1016-8008			E1016-8058		
GREEN		E1016-8010			E1016-8060		
WHITE		E1016-8011			E1016-8061		
BLUE		E1016-7700			E1016-7716		
BLACK	1/0-2/0	E1016-8012	A200036-19	A200074-19	E1016-8062	A200037-24	A200075-19
RED		E1016-8014			E1016-8064		
GREEN		E1016-8016			E1016-8066		
WHITE		E1016-8017			E1016-8067		
BLUE	E1016-7702	E1016-7718					
BLACK	1/0-2/0 HEAVY DUTY	E1016-8018	A200038-11	A200074-13	E1016-8068	A200035-17	A200075-13
RED		E1016-8020			E1016-8070		
GREEN		E1016-8022			E1016-8072		
WHITE		E1016-8023			E1016-8073		
BLUE		E1016-7704			E1016-7720		
BLACK	3/0-4/0	E1016-8030	A200038-6	A200074-13	E1016-8080	A200035-14	A200075-13
RED		E1016-8032			E1016-8082		
GREEN		E1016-8034			E1016-8084		
WHITE		E1016-8035			E1016-8085		
BLUE		E1016-7708			E1016-7724		
BLACK	#2-2/0	E1016-8300	A200065-1	A200074-19	E1016-8325	A200067-3	A200075-19
RED		E1016-8302			E1016-8327		
GREEN		E1016-8304			E1016-8329		
WHITE		E1016-8305			E1016-8330		
BLUE		E1016-8818			E1016-8820		
BLACK	2/0-4/0	E1016-8312	A200064-1	A200074-13	E1016-8337	A200090-1	A200075-13
RED		E1016-8314			E1016-8339		
GREEN		E1016-8316			E1016-8341		
WHITE		E1016-8317			E1016-8342		
BLUE		E1016-8819			E1016-8821		
BLACK	#2-2/0	E1016-8350	A200630-1	A200074-19	E1016-8375	A200640-3	A200075-19
RED		E1016-8352			E1016-8377		
GREEN		E1016-8354			E1016-8379		
WHITE		E1016-8355			E1016-8380		
BLUE		E1016-8356			E1016-8381		
BLACK	2/0-4/0	E1016-8362	A200639-1	A200074-60	E1016-8387	A200641-1	A200075-60
RED		E1016-8364			E1016-8389		
GREEN		E1016-8366			E1016-8391		
WHITE		E1016-8367			E1016-8392		
BLUE		E1016-8368			E1016-8393		
<b>VULCANIZED</b>		<b>MALE PLUG</b>			<b>FEMALE PLUG</b>		
COLOR	CABLE SIZE	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.
BLACK	#2-#1	E1016-7	A200036-2	A2000706-7	E1016-56	A200037-2	A2000705-7
RED		E1016-9			E1016-58		
GREEN		E1016-11			E1016-60		
WHITE		E1016-12			E1016-61		
BLUE		E1016-46			E1016-95		
BLACK	1/0-2/0	E1016-13	A200036-3	A2000706-7	E1016-62	A200037-3	A2000705-7
RED		E1016-15			E1016-64		
GREEN		E1016-17			E1016-66		
WHITE		E1016-18			E1016-67		
BLUE		E1016-43			E1016-92		
BLACK	3/0-4/0	E1016-31	A200038-2	A2000706-13	E1016-80	A200035-2	A2000705-13
RED		E1016-33			E1016-82		
GREEN		E1016-35			E1016-84		
WHITE		E1016-36			E1016-85		
BLUE		E1016-45			E1016-94		



MALE



FEMALE



MALE



FEMALE

\* NOTE: Double set-screw male and female plugs are CSA and UL Listed for 400 amps when used with #4/0 90°C cable. Crimp and single set-screw male and female plugs are listed for 315 amps.



# E1016 Series

Connectors and Accessories for cable size #2-4/0, 600 volts, rated up to 400 amperes continuous \*

## FEMALE TERMINAL CONNECTORS



COLOR	CABLE SIZE
BLACK	#8-#4
RED	—
GREEN	—
WHITE	—
BLUE	—

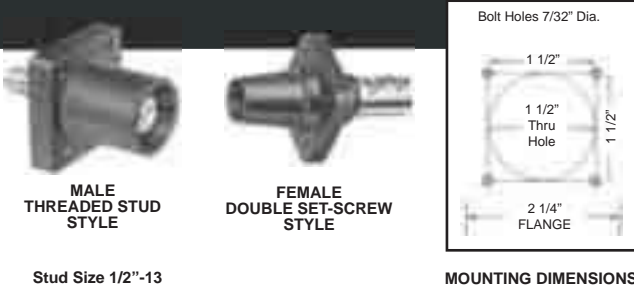
Stud Hole Size 1/2"

## FEMALE SAFETY TERMINALS

ROUND COMPLETE PART NO.	RECTANGULAR COMPLETE PART NO.
E1016-813	E1016-801
E1016-815	E1016-803
E1016-817	E1016-805
E1016-818	E1016-806
E1016-819	E1016-807

Tap Hole Size 1/2"-13

## INSULATED RECEPTACLES



	COLOR	CABLE SIZE	MALE COMPLETE PART NO.	FEMALE COMPLETE PART NO.
<b>THREADED STUD</b>	BLACK	#2-4/0	E1016-1600	E1016-1631
	RED		E1016-1602	E1016-1633
	GREEN		E1016-1604	E1016-1635
	WHITE		E1016-1605	E1016-1636
	BLUE		E1016-1612	E1016-1643
<b>DOUBLE SET-SCREW</b>	BLACK	#2-4/0	E1016-1700	E1016-1725
	RED		E1016-1702	E1016-1727
	GREEN		E1016-1704	E1016-1729
	WHITE		E1016-1705	E1016-1730
	BLUE		E1016-1706	E1016-1731

## THREE WAY LAY-DOWN "T" CONNECTORS



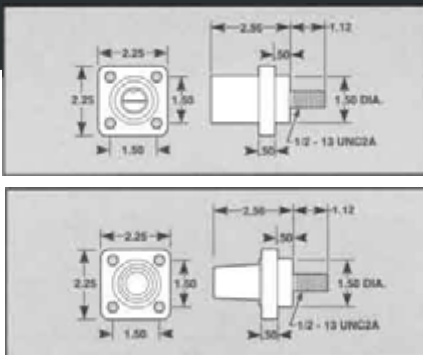
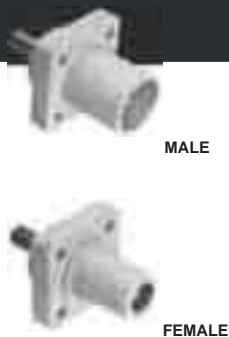
COLOR	PARALLELING "T" PART NO.	TAPPING "T" PART NO.	DOUBLE FEMALE PART NO.
BLACK	E1016-2324	E1016-2312	E1016-2352
RED	E1016-2326	E1016-2314	E1016-2354
GREEN	E1016-2328	E1016-2316	E1016-2356
WHITE	E1016-2329	E1016-2317	E1016-2357
BLUE	E1016-2348	E1016-2350	E1016-2358

## PROTECTIVE CAPS



COLOR	PART NO.	DESCRIPTION
BLACK	A100601-1	CAP FOR MALE
BLACK	A100602-1	CAP FOR FEMALE
PLATED ALUMINUM	A100895-1	SNAP BACK METAL COVER
	100444	SPACER

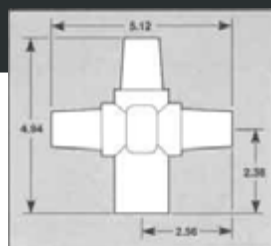
### DIMENSIONS



## THREADED STUD PANEL MOUNTS

COLOR	CABLE SIZE	MALE COMPLETE PART NO.	FEMALE COMPLETE PART NO.
BLACK	#2-4/0	E1016-1600S	E1016-1631S
YELLOW		E1016-1601S	E1016-1632S
RED		E1016-1602S	E1016-1633S
ORANGE		E1016-1603S	E1016-1634S
GREEN		E1016-1604S	E1016-1635S
WHITE		E1016-1605S	E1016-1636S
BLUE		E1016-1612S	E1016-1643S
BROWN		E1016-1619S	E1016-1687S



### DIMENSIONS





## THREE-FER™ TAPPING TEE

COLOR	PART NO.
BLACK	E1016-9500
YELLOW	E1016-9501
RED	E1016-9502
ORANGE	E1016-9503
GREEN	E1016-9504
WHITE	E1016-9505
BLUE	E1016-9506



\* All connectors and receptacles shown above are Listed for 400 amps.

NON-VULCANIZED			MALE PLUG			FEMALE PLUG			
	COLOR	CABLE SIZE	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.	
<b>DOUBLE SET-SCREW</b>	BLACK	350-500MCM ↓	E1017-350	A200612-1 ↓	A200056-1 A200056-3 A200056-5 A200056-6 A200056-7	E1017-375	A200614-2 ↓	A200040-1 A200040-3 A200040-5 A200040-6 A200040-39	
	RED		E1017-352			E1017-377			<b>MALE</b>
	GREEN		E1017-354			E1017-379			
	WHITE		E1017-355			E1017-380			<b>FEMALE</b>
	BLUE		E1017-356			E1017-381			

VULCANIZED		MALE PLUG			FEMALE PLUG				
	COLOR	CABLE SIZE	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.	COMPLETE PART NO.	CONTACT ONLY PART NO.	INSULATOR ONLY PART NO.	
<b>CRIMP</b>	BLACK	350MCM ↓	E1017-1	A200028-1 ↓	A200056-1 A200056-3 A200056-5 A200056-6 A200056-7	E1017-50	A200027-5 ↓	A200040-1 A200040-3 A200040-5 A200040-6 A200040-39	
	RED		E1017-3			E1017-52			<b>MALE</b>
	GREEN		E1017-5			E1017-54			
	WHITE		E1017-6			E1017-55			<b>FEMALE</b>
	BLUE		E1017-26			E1017-74			
	BLACK	500MCM ↓	E1017-7	A200028-2 ↓	A200056-1 A200056-3 A200056-5 A200056-6 A200056-7	E1017-56	A200027-6 ↓	A200040-1 A200040-3 A200040-5 A200040-6 A200040-39	
	RED		E1017-9			E1017-58			
	GREEN		E1017-11			E1017-60			
	WHITE		E1017-12			E1017-61			
	BLUE		E1017-27			E1017-75			
	BLACK	750MCM ↓	E1017-13	A200028-3 ↓	A200056-7 A200056-9 A200056-11 A200056-12 A200056-41	E1017-62	A200027-7 ↓	A200040-7 A200040-9 A200040-11 A200040-12 A200040-40	
	RED		E1017-15			E1017-64			
	GREEN		E1017-17			E1017-66			
	WHITE		E1017-18			E1017-67			
	BLUE		E1017-28			E1017-76			

### FEMALE TERMINAL CONNECTORS

COLOR	CABLE SIZE	COMPLETE PART NO.	DESCRIPTION	
BLACK	350-750MCM	E1017-575	ANGLE STYLE	
BLACK	350-750MCM	E1017-625	OFFSET STYLE	
Bolt Hole 5/8"				ANGLE STYLE      OFFSET STYLE

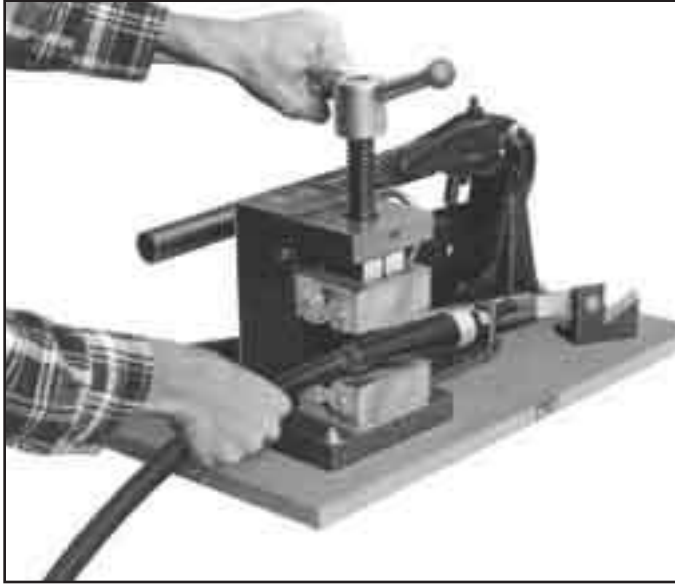
RECEPTACLES		MALE		FEMALE			
COLOR	CABLE SIZE	90° COMPLETE PART NO.	30° COMPLETE PART NO.	90° COMPLETE PART NO.	30° COMPLETE PART NO.		
BLACK	350-750MCM ↓	E1017-1600	E1017-1601	E1017-1625	E1017-1626		
RED		E1017-1604	E1017-1605	E1017-1629	E1017-1630		
GREEN		E1017-1608	E1017-1609	E1017-1633	E1017-1634		
WHITE		E1017-1610	E1017-1611	E1017-1635	E1017-1636		
BLUE		E1017-1612	E1017-1613	E1017-1637	E1017-1638		
Stud Size 1/2"-13						90° MALE      30° FEMALE	

### PROTECTIVE CAPS

COLOR	PART NO.	DESCRIPTION	
BLACK	A100603-1	CAP FOR MALE	
BLACK	A100604-1	CAP FOR FEMALE	
			MALE      FEMALE



# Portable Vulcanizing Kits and Presses



Vulcanize connectors and splices with the same basic equipment.

The vulcanizing press used for connectors may be converted to a splicing press by replacing connector mold bushings with splice mold bushings (consult factory).

## COMPLETE VULCANIZING KITS

CABLE SIZE	CABLE O.D.	E1015 SERIES	E1016 SERIES
#8	.440	A300120-1	—
#6	.510	A300120-2	—
#4	.570	A300120-3	—
#2	.660	—	A300100-3
#1	.740	—	A300100-4
1/0	.770	—	A300100-5
2/0	.820	—	A300100-6
3/0	.870	—	A300100-7
4/0	.930	—	A300100-8

Vulcanizing kit for cable sizes #8-4/0 comes complete with mold bushings and crimping nest for one cable size. Additional cable sizes can be accommodated by ordering additional mold bushings (listed below). See page 11 for crimping presses and nests.  
NOTE: Vulcanizing equipment for cable sizes #8-4/0 is not interchangeable with equipment for cable sizes 350-750MCM. Other sizes are available.



## VULCANIZING PRESSES ONLY

CABLE SIZE	CABLE O.D.	E1015 SERIES	E1016 SERIES	E1017 SERIES
#8	.440	A300121-1	—	—
#6	.510	A300100-2	—	—
#4	.570	A300100-3	—	—
#2	.660	—	A300103-3	—
#1	.740	—	A300103-4	—
1/0	.770	—	A300103-5	—
2/0	.820	—	A300103-6	—
3/0	.870	—	A300103-7	—
4/0	.930	—	A300103-8	—
350MCM	1.150	—	—	A300106-1
500MCM	1.310	—	—	A300106-2
750MCM	1.580	—	—	A300106-3

Vulcanizing press for cable sizes #8-750MCM comes complete with mold bushings for one cable size. Additional cable sizes can be accommodated by ordering additional mold bushings to match your cable size (listed below).  
NOTE: Vulcanizing equipment for cable sizes #8-4/0 is not interchangeable with equipment for cable sizes 350-750MCM.



## PLUG MOLDED BUSHINGS

CABLE SIZE	NOMINAL CABLE O.D.	E1015 SERIES	E1016 SERIES	E1017 SERIES
#8	.440	201015-3	—	—
#6	.510	201015-15	—	—
#4	.570	201015-18	—	—
#2	.660	—	200895-20	—
#1	.740	—	200895-21	—
1/0	.770	—	200895-22	—
2/0	.820	—	200895-23	—
3/0	.870	—	200895-24	—
4/0	.930	—	200895-17	—
350MCM	1.150	—	—	200006-3
500MCM	1.310	—	—	200006-6
750MCM	1.580	—	—	200006-8



# Parts, Tools, & Accessories

## PLUG ASSEMBLY TOOLS AND ACCESSORIES

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
A400001	E1016 Lektralink Assembly Tool	A200020-1	COM-A-LONG for pulling male contact in E1015 Series
100300	Spraylube #70, 12 oz.	A200020-2	COM-A-LONG for pulling female contact in E1015 Series
100300-1	Spraylube, 16 oz., / brush applicator	A200020-3	COM-A-LONG for pulling male contact in E1016 Series
A101208	2 oz. tube silicon grease for lubricating business end of synthetic rubber insulators	A200020-4	COM-A-LONG for pulling female contact in E1016 Series
A100632	Tool for removing E1016 contacts from insulators		
A100072	Cable Cutter - #6-4/0 Cable		



CONNECTOR SERIES NO.	SET SCREW	COPPER SHIM	PRESSURE PAD	RETAINING WIRE	INSTRUCTION SHEET
E1015	100012-25	100400-2	—	100573-1	EB-175
E1016	100012-18	100400-4*	101214	↓	EB-169
E1017	100012-5	—	101214		EB-168

\*NOTE: Shim 100400-4 is for single set-screw or crimp style. For double set-screw style, use shim 100400-5.

## E1015 AND E1016 SERIES CRIMPING NEST AND PRESSES

CABLE SIZE	CRIMPING NESTS PART NO.	CRIMPING PRESSES
#8	100514-1	A200914-1
#4-6	100514-2	A200914-2
#1-2	100514-3	A200914-3
1/0-2/0	100514-4	A200914-4
4/0	100514-6	A200914-6



CRIMPING NEST



CRIMPING PRESS

GAGE BLOCK FOR CALIBRATING CRIMPER: #100891.

\* The product information published in this catalog is sufficiently accurate for most purposes, but is not guaranteed. Product information is subject to change without notice.



# COOPER Crouse-Hinds Molded Products

**NEW!**

## CAM-LOK<sup>®</sup> NEMA 3R RECEPTACLE COVERS



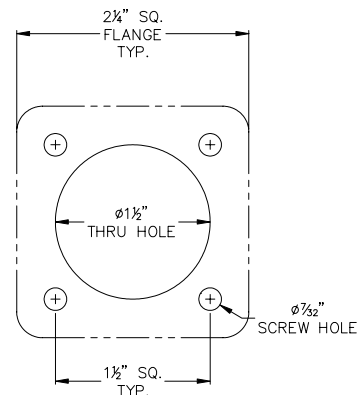
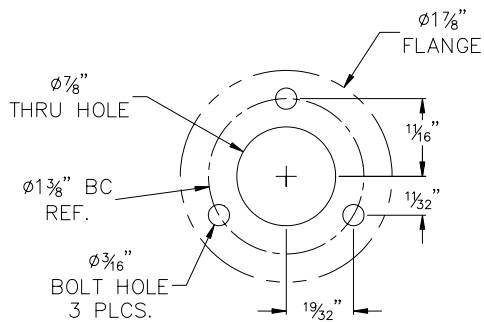
### FEATURES

- ▶ NEMA 3R RATED ENVIRONMENTAL SEAL
- ▶ ALL STAINLESS STEEL HARDWARE
- ▶ HIGH IMPACT RESISTANT THERMOPLASTIC COVERS AND BODIES
- ▶ MANY COLOR OPTIONS TO CHOOSE FROM

### ORDERING INFORMATION

COLOR	E1015 SERIES	E1016 SERIES
BLACK	E1015SC-32	E1016SC-32
RED	E1015SC-36	E1016SC-36
GREEN	E1015SC-35	E1016SC-35
WHITE	E1015SC-38	E1016SC-38
BLUE	E1015SC-34	E1016SC-34
YELLOW	E1015SC-37	E1016SC-37
ORANGE	E1015SC-39	E1016SC-39
BROWN	E1015SC-31	E1016SC-31
GRAY	E1015SC-33	E1016SC-33

USE WITH ANY CAM-LOK J-POWER E-1015 & E1016 SERIES RECEPTACLES



Maximum panel thickness 3/16" [4.75mm]

PATENT PENDING

Socket Head Screw Size

-E1016 #10, Max. Head Dia. .390"

-E1015 #8, Max. Head Dia. .320"

Cooper Crouse-Hinds Molded Products, 4758 Washington Street, LaGrange, NC 28551

Ph. 252 566-3014

Fax 252 566-9337

www.crouse-hinds.com

# POSI-LOK™

POWER DISTRIBUTION SYSTEM

CONNECT SEQUENCE: START LEFT TO RIGHT  
DISCONNECT SEQUENCE: RIGHT TO LEFT

NOT FOR INTERRUPTING  
CURRENT

OUTPUT POSI-LOK® PANEL  
ED400 SERIES  
400 AMP MAX. 3 Ø  
600 VAC 105°C

GROUND

UTRA

NEUTRAL

POSI-LOK  
BLACK

POSI-LOK  
RED

POSI-LOK  
BLUE

CAUTION: READ INSTRUCTIONS BEFORE USE

UL LISTED  
NEUTRAL AND  
GROUND PLUGS

LOCKED

CROUSE-HINDS  
LMORANGE

CROUSE-HINDS  
**cam-lok**  
CONNECTORS

**COOPER** Crouse-Hinds

## Meets N.E.C. Standards

**THE SAFEST  
ELECTRICAL  
SYSTEM FOR  
HIGH AMPERAGE  
CONNECTIONS**

**THE GROUND  
ALWAYS MAKES  
FIRST AND  
BREAKS LAST**



All Posi•Lok™ Systems  
are UL listed  
Patent #4,767,347



**IN-LINE PLUGS  
MAKE CABLE  
EXTENSIONS  
QUICK AND EASY**

The Cam-Lok® Posi•Lok Power Distribution System from Crouse-Hinds Molded Products brings a new level of safety to electrical power applications.

Now there's no need to haul around python-size, multi-conductor cables. Posi•Lok Power Distribution Systems let you use lighter, single conductor cables rated at higher amperages.

Designed to meet Article 520-53 Section K and Article 530-22 Section A (NEC) standards, Posi•Lok's built-in safety features require the user to connect or disconnect each plug in sequence. Protective covers cannot be raised until the preceding plug is locked into position. The disconnect sequence is reversed.



The same plugs that connect to panels also connect to each other so you can assemble long runs of cable. Polarity is assured because each plug is uniquely keyed and color-coded for easy, positive connecting.

Posi•Lok plugs feature recessed electrical contacts that are protected by shatter-resistant synthetic rubber insulators and impact-resistant molded sleeves.





# Applications



**ENTERTAINMENT** - convention centers, coliseums, circuses, carnivals, theatres, and theme parks.



**INDUSTRIAL COMPANIES** - utilities, water purification, construction, and mining.

Posi•Lok Systems are in use in dozens of demanding applications, both indoors and out. They provide the means for hurried personnel to quickly connect and disconnect power systems safely at professional performances. And they can be used for connecting standby power generators and load testing equipment in hospitals and in heavy industrial environments.



**TELEVISION/FILM MAKING** - special location broadcast systems and studios.



**PORTABLE GENERATING SYSTEMS** - for telecommunications and emergency back-up in disaster relief areas.



**MEDICAL** - hospitals, load test centers, and standby power.



**PORTABLE DISTRIBUTION CENTER** - connected to house power panel.

# Specifications

## THERE IS A POSI-LOK SYSTEM FOR EVERY APPLICATION

Crouse-Hinds offers UL listed and CSA certified Posi-Lok Systems in the sizes you need most...200, 315, and 400 amperes. You can order optional 6-position panels which include a double neutral position to solve harmonic problems in your distribution system.

These systems were designed with the user in mind. The 315 and 400 amp panels can be installed into a standard 19-inch rack mount. The 200 amp panel requires as little as a 13.5-inch wide space.

Consult the factory for additional polarizing configurations.



## ELECTRICAL SPECIFICATIONS

RECEPTACLE PER PANEL	SERIES NUMBER	AC AMP RATING	MAXIMUM VOLTAGE	CONTACT MATERIAL	OUTPUT SIDE	MAXIMUM CABLE SIZE	CABLE TERMINATION	TEMP RATING
3, 4, 5 OR 6	ED200	200	600 VAC 250 VDC	SILVER PLATED COPPER	MALE	2/0	CRIMP AND SET SCREW	105° C
3, 4, 5 OR 6	ED315	315	600 VAC 250 VDC	BRASS	FEMALE	4/0	CRIMP AND SET SCREW	105° C
3, 4, 5 OR 6	ED400	400	600 VAC 250 VDC	SILVER PLATED COPPER	FEMALE	4/0	CRIMP AND SET SCREW	105° C

NOTE: For 400 maximum rated ampacity the following type cables may be used:  
UL Type 9C, CSA Type PPC 105° C or Type W 90° C

## PADLOCKABLE SYSTEMS

- Padlock the grounding cover only and the entire panel system cannot be used.
- Padlock fourth cover when a single phase, 3-wire system is desired.
- Padlock fifth cover when 4-wire system is desired.
- Padlock the system when in use, preventing unauthorized disconnecting. P/N 1317557





# Special Features

## E0200 Series Plug Cutaway

Termination Barrel (Crimp Style shown).  
Set Screw also available

Contact Retaining Nut

Compression Nut

O-Ring

**SIMPLE DESIGN  
ALLOWS FOR  
ASSEMBLY IN  
THE FIELD OR  
IN YOUR PLANT**

### Built-In Strain Relief Reduces Cable Strand Breakage

More than 20 years of field testing have proven that the unique synthetic rubber, tapered insulator allows maximum flexing with minimum breakage. There are no metal clamps or grommets to cause cable failure.

Cable Jacket Retaining Wire

Impact-Resistant Polarizing Sleeve

Recessed Contacts

Tab

## E0315 - E0400 Series Plug Cutaway

Lektralink® Ring

Drive Pin

Termination Barrel (Set Screw shown).  
Crimp Style also available

### E0200 MALE CONTACT

Double Cams

Contact with Safe Front Tip  
meets UL Touch Test

The Cam-Lok® double cam principle provides a positive vibration-proof connection. Just 1/3 of a turn assures a high pressure contact with minimum electrical resistance. The self-wiping action maintains clean contact surfaces. The patented design is self-compensating for wear.

**POSI•LOK  
CONTACTS WITH  
EXCLUSIVE  
CAM-LOK® ACTION**

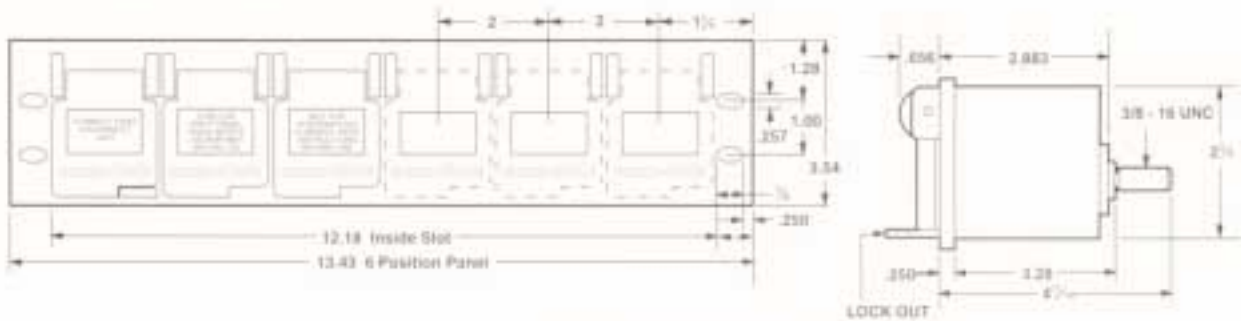
### E0200 FEMALE CONTACT

The E0200 Series male connector is the output side. E0315 and E0400 Series use the female connector as the output side.



3, 4, 5, or 6 Wire System, Rated up to 200 Amps.  
Continuous, 600 Volts. 105° C

**PANEL  
DIMENSIONS**



See chart page 7 for cover color codes.  
All dimensions are approximate.  
Please consult the factory for exact mounting dimensions.

PANEL DIMENSIONS		
NO. OF POSITIONS	OVERALL LENGTH	INSIDE SLOT
6	13.43	12.18
5	11.43	10.18
4	9.50	8.25
3	7.50	6.25

E0200 Series male contacts (plugs and panels) have UL approved insulated ends, for use as the output side.

Retaining Nut  
PN 101235-2

**MALE  
PLUGS**



**PART  
NUMBERS**

DESCRIPTION	POSITION	MALE COMPLETE PART NO.	MALE CONTACT ONLY PART NO.	MALE INSULATOR/POLARIZING SHELL PART NO.
CRIMP #2 - 2/0 200 AMP	GROUND	E0200-141	A201293-5	A201315-3
	NEUTRAL-WHITE	E0200-142	A201293-5	A201315-2
	BLACK	E0200-143	A201293-5	A201315-1
	RED	E0200-144	A201293-5	A201315-5
	BLUE	E0200-145	A201293-5	A201315-4
	NEUTRAL-BLACK *	E0200-151	A201293-5	A201315-7
	YELLOW *	E0200-152	A201293-5	A201315-8
DOUBLE SET SCREW #2 - 2/0 200 AMP	GROUND	E0200-181	A201293-1	A201315-3
	NEUTRAL-WHITE	E0200-182	A201293-1	A201315-2
	BLACK	E0200-183	A201293-1	A201315-1
	RED	E0200-184	A201293-1	A201315-5
	BLUE	E0200-185	A201293-1	A201315-4
	NEUTRAL-BLACK *	E0200-191	A201293-1	A201315-7
	YELLOW *	E0200-192	A201293-1	A201315-8

\* INTERNATIONAL COLOR CODE

- NOTE
1. Optional limit switch available upon request.
  2. Assembly tool for 200 A plugs A201303.



3, 4, 5, or 6 Wire System, Rated up to 200 Amps.  
Continuous, 600 Volts, 105° C

**MALE AND  
FEMALE PANEL  
PART NUMBERS\*†**

RECEPTACLES PER PANEL	MALE PANELS	FEMALE PANELS	COVER COLOR CODE
3	E0200-1660	E0200-1665	GR, N-WH, BK
4	E0200-1661	E0200-1666	GR, BK, RD, BU
4	E0200-1672	E0200-1696	GR, N-WH, BK, RD
5	E0200-1662	E0200-1687	GR, N-WH, BK, RD, BU
5	E0200-1669	E0200-1693	GR, N-WH, BK, BK, BK
5	E0200-1673	E0200-1697	GR, N-BK, YEL, RD, BU *
6	E0200-1660	E0200-1885	GR, N-WH, N-WH, BK, RD, BU

GR = GREEN	N-WH = NEUTRAL WHITE	RD = RED	YEL = YELLOW
BK = BLACK	N-BK = NEUTRAL BLACK	BU = BLUE	* = INTERNATIONAL COLOR CODE

\* Plugs must be ordered separately. See pages 5 and 7.  
† Add an 'LS' suffix to end of part number to order panels with a limit switch in last position. Example: E0200-1667LS

NOTES:  
1. E0200 Series have copper silver plated contacts.  
2. Panel does not include enclosure or brackets. Posi-Lok System must be installed per local and national standards.  
3. Panel receptacles have commercial bronze lock, flat washers, and jam nuts included.



DESCRIPTION	POSITION	FEMALE COMPLETE PART NO.	FEMALE CONTACT ONLY PART NO.	FEMALE INSULATOR/POLARIZING SHELL PART NO.
CRIMP #2 - 2/0 200 AMP	GROUND	E0200-241	A201292-5	A201315-27
	NEUTRAL-WHITE	E0200-242	A201292-5	A201315-26
	BLACK	E0200-243	A201292-5	A201315-25
	RED	E0200-244	A201292-5	A201315-29
	BLUE	E0200-245	A201292-5	A201315-28
	NEUTRAL-BLACK *	E0200-251	A201292-5	A201315-31
	YELLOW *	E0200-252	A201292-5	A201315-32
DOUBLE SET SCREW #2 - 2/0 200 AMP	GROUND	E0200-281	A201292-1	A201315-27
	NEUTRAL-WHITE	E0200-282	A201292-1	A201315-26
	BLACK	E0200-283	A201292-1	A201315-25
	RED	E0200-284	A201292-1	A201315-29
	BLUE	E0200-285	A201292-1	A201315-28
	NEUTRAL-BLACK *	E0200-291	A201292-1	A201315-31
	YELLOW *	E0200-292	A201292-1	A201315-32

\* INTERNATIONAL COLOR CODE

**PART  
NUMBERS**

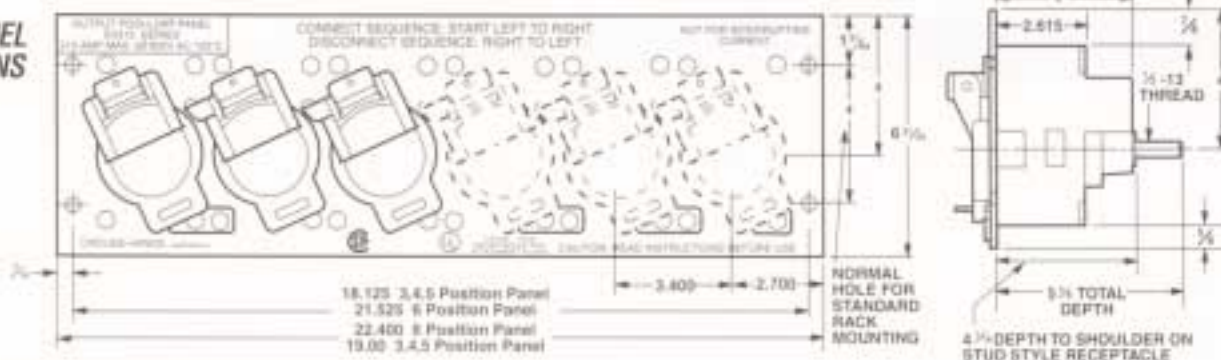


# E0315 SERIES

# Posi•Lok Plugs & Panels

3, 4, 5, or 6 Wire System, Rated up to 315 Amps.  
Continuous, 600 Volts. 105° C

## PANEL DIMENSIONS



## UPGRADE EXISTING CAM-LOK J-POWER CONNECTORS

If you are presently using the tried and true J-Power Lektrak E1016 Connectors, you can easily upgrade to the new E0315 Posi•Lok style. Each connector family features brass contacts that are directly interconnectable. By upgrading your existing plugs with the Posi•Lok system you will comply with the latest NEC requirements. See chart page 9 for cover color codes.

NO. OF POSITIONS	CUT-OUT DIMENSIONS
6	22.65 ± 0.50
3,4,5	17.25 ± 0.50

## MALE PLUGS



## PART NUMBERS

DESCRIPTION	POSITION	MALE COMPLETE PART NO.	MALE CONTACT ONLY PART NO.	MALE INSULATOR PART NO.	POLARIZING SHELL PART NO.
CRIMP #2 - #1 170 AMP	GROUND	E0315-121	A201271-4	A200074-17	A201279-11
	NEUTRAL-WHITE	E0315-122	A201271-4	A200074-18	A201279-12
	BLACK	E0315-123	A201271-4	A200074-13	A201279-13
	RED	E0315-124	A201271-4	A200074-15	A201279-14
	BLUE	E0315-125	A201271-4	A200074-37	A201279-15
	NEUTRAL-BLACK •	E0315-131	A201271-4	A200074-13	A201279-24
YELLOW •	E0315-132	A201271-4	A200074-14	A201279-25	
CRIMP 1/0 - 2/0 235 AMP	GROUND	E0315-141	A201271-5	A200074-17	A201279-6
	NEUTRAL-WHITE	E0315-142	A201271-5	A200074-18	A201279-7
	BLACK	E0315-143	A201271-5	A200074-13	A201279-8
	RED	E0315-144	A201271-5	A200074-15	A201279-9
	BLUE	E0315-145	A201271-5	A200074-37	A201279-10
	NEUTRAL-BLACK •	E0315-151	A201271-5	A200074-13	A201279-22
YELLOW •	E0315-152	A201271-5	A200074-14	A201279-23	
CRIMP 3/0 - 4/0 315 AMP	GROUND	E0315-161	A201271-6	A200074-17	A201279-1
	NEUTRAL-WHITE	E0315-162	A201271-6	A200074-18	A201279-2
	BLACK	E0315-163	A201271-6	A200074-13	A201279-3
	RED	E0315-164	A201271-6	A200074-15	A201279-4
	BLUE	E0315-165	A201271-6	A200074-37	A201279-5
	NEUTRAL-BLACK •	E0315-171	A201271-6	A200074-13	A201279-20
YELLOW •	E0315-172	A201271-6	A200074-14	A201279-21	
DOUBLE SET SCREW #2 - 4/0 315 AMP	GROUND	E0315-181	A201283-2	A200074-17	A201279-1
	NEUTRAL-WHITE	E0315-182	A201283-2	A200074-18	A201279-2
	BLACK	E0315-183	A201283-2	A200074-13	A201279-3
	RED	E0315-184	A201283-2	A200074-15	A201279-4
	BLUE	E0315-185	A201283-2	A200074-37	A201279-5
	NEUTRAL-BLACK •	E0315-191	A201283-2	A200074-13	A201279-20
YELLOW •	E0315-192	A201283-2	A200074-14	A201279-21	

• INTERNATIONAL COLOR CODE

NOTE: Optional limit switch available upon request.



# Posi-Lok Plugs & Panels

## E0315 SERIES

3, 4, 5, or 6 Wire System, Rated up to 315 Amps.  
Continuous, 600 Volts. 105° C

MALE AND FEMALE  
PANEL PART  
NUMBERS\*1

RECEPTACLES PER PANEL	MALE PANELS	FEMALE PANELS	COVER COLOR CODE
3	E0315-1660	E0315-1685	GR, N-WH, BK
4	E0315-1661	E0315-1686	GR, BK, RD, BU
4	E0315-1672	E0315-1696	GR, N-WH, BK, RD
5	E0315-1662	E0315-1687	GR, N-WH, BK, RD, BU
5	E0315-1669	E0315-1693	GR, N-WH, BK, BK, BK
5	E0315-1673	E0315-1697	GR, N-BK, YEL, RD, BU *
6	E0315-1860	E0315-1885	GR, N-WH, N-WH, BK, RD, BU

GR = GREEN	N-WH = NEUTRAL WHITE	RD = RED	YEL = YELLOW
BK = BLACK	N-BK = NEUTRAL BLACK	BU = BLUE	* = INTERNATIONAL COLOR CODE

\* Plugs must be ordered separately. See pages 8 and 9.  
† Add an "LS" suffix to end of part number to order panels with a limit switch in last position. Example: E0315-1667LS.

**NOTES:**

1. E0315 Series have brass contacts.
2. Panel does not include enclosure or breakers. Posi-Lok System must be installed per local and national standards.
3. Panel receptacles have commercial bronze lock, for washers, and jam nuts included.



(Part protrudes 5/16" from panel when plugged in.)

FEMALE  
PLUGS

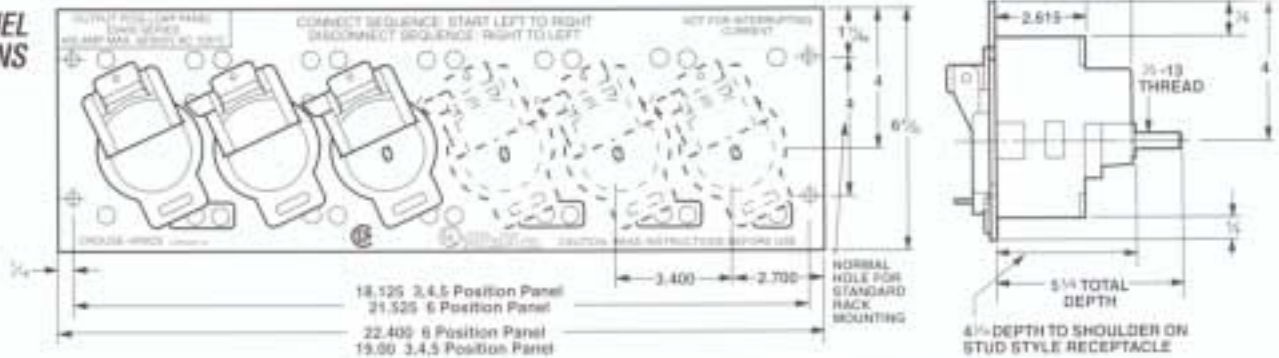
DESCRIPTION	POSITION	FEMALE COMPLETE PART NO.	FEMALE CONTACT ONLY PART NO.	FEMALE INSULATOR PART NO.	POLARIZING SHELL PART NO.
CRIMP #2 - #1 170 AMP	GROUND	E0315-221	A200035-66	A200075-17	A201280-12
	NEUTRAL-WHITE	E0315-222	A200035-66	A200075-18	A201280-13
	BLACK	E0315-223	A200035-66	A200075-13	A201280-14
	RED	E0315-224	A200035-66	A200075-15	A201280-15
	BLUE	E0315-225	A200035-66	A200075-37	A201280-16
	NEUTRAL-BLACK *	E0315-231	A200035-66	A200075-13	A201280-24
	YELLOW *	E0315-232	A200035-66	A200075-14	A201280-25
CRIMP 1/0 - 2/0 235 AMP	GROUND	E0315-241	A200035-67	A200075-17	A201280-7
	NEUTRAL-WHITE	E0315-242	A200035-67	A200075-18	A201280-8
	BLACK	E0315-243	A200035-67	A200075-13	A201280-9
	RED	E0315-244	A200035-67	A200075-15	A201280-10
	BLUE	E0315-245	A200035-67	A200075-37	A201280-11
	NEUTRAL-BLACK *	E0315-251	A200035-67	A200075-13	A201280-22
	YELLOW *	E0315-252	A200035-67	A200075-14	A201280-23
CRIMP 3/0 - 4/0 315 AMP	GROUND	E0315-261	A200035-68	A200075-17	A201280-1
	NEUTRAL-WHITE	E0315-262	A200035-68	A200075-18	A201280-2
	BLACK	E0315-263	A200035-68	A200075-13	A201280-3
	RED	E0315-264	A200035-68	A200075-15	A201280-4
	BLUE	E0315-265	A200035-68	A200075-37	A201280-5
	NEUTRAL-BLACK *	E0315-271	A200035-68	A200075-13	A201280-20
	YELLOW *	E0315-272	A200035-68	A200075-14	A201280-21
DOUBLE SET SCREW #2 - 4/0 315 AMP	GROUND	E0315-281	A201284-2	A200075-17	A201280-1
	NEUTRAL-WHITE	E0315-282	A201284-2	A200075-18	A201280-2
	BLACK	E0315-283	A201284-2	A200075-13	A201280-3
	RED	E0315-284	A201284-2	A200075-15	A201280-4
	BLUE	E0315-285	A201284-2	A200075-37	A201280-5
	NEUTRAL-BLACK *	E0315-291	A201284-2	A200075-13	A201280-20
	YELLOW *	E0315-292	A201284-2	A200075-14	A201280-21

PART  
NUMBERS

\* INTERNATIONAL COLOR CODE

3, 4, 5, or 6 Wire System, Rated up to 400 Amps.  
Continuous, 600 Volts. 105° C

**PANEL  
DIMENSIONS**



See chart page 11 for cover color codes.

NO. OF POSITIONS	CUT-OUT DIMENSIONS
6	22.65 x 5.50
3,4,5	17.25 x 5.50

**MALE  
PLUGS**



(Part protrudes 5/16 from panel when plugged in.)

**PART  
NUMBERS**

DESCRIPTION	POSITION	MALE COMPLETE PART NO.	MALE CONTACT ONLY PART NO.	MALE INSULATOR PART NO.	POLARIZING SHELL PART NO.
CRIMP 1/0 - 2/0  300 AMP	GROUND	E0400-141	A201271-2	A200074-64	A201263-6
	NEUTRAL-WHITE	E0400-142	A201271-2	A200074-65	A201263-7
	BLACK	E0400-143	A201271-2	A200074-60	A201263-8
	RED	E0400-144	A201271-2	A200074-62	A201263-9
	BLUE	E0400-145	A201271-2	A200074-66	A201263-10
	NEUTRAL-BLACK •	E0400-151	A201271-2	A200074-60	A201263-22
CRIMP 3/0 - 4/0  400 AMP	YELLOW •	E0400-152	A201271-2	A200074-61	A201263-23
	GROUND	E0400-161	A201271-1	A200074-64	A201263-1
	NEUTRAL-WHITE	E0400-162	A201271-1	A200074-65	A201263-2
	BLACK	E0400-163	A201271-1	A200074-60	A201263-3
	RED	E0400-164	A201271-1	A200074-62	A201263-4
	BLUE	E0400-165	A201271-1	A200074-66	A201263-5
DOUBLE SET SCREW #2 - 4/0  400 AMP	NEUTRAL-BLACK •	E0400-171	A201271-1	A200074-60	A201263-20
	YELLOW •	E0400-172	A201271-1	A200074-61	A201263-21
	GROUND	E0400-181	A201283-1	A200074-64	A201263-1
	NEUTRAL-WHITE	E0400-182	A201283-1	A200074-65	A201263-2
	BLACK	E0400-183	A201283-1	A200074-60	A201263-3
	RED	E0400-184	A201283-1	A200074-62	A201263-4
400 AMP	BLUE	E0400-185	A201283-1	A200074-66	A201263-5
	NEUTRAL-BLACK •	E0400-191	A201283-1	A200074-60	A201263-20
	YELLOW •	E0400-192	A201283-1	A200074-61	A201263-21

• INTERNATIONAL COLOR CODE



# Posi-Lok Plugs & Panels

## E0400 SERIES

3, 4, 5, or 6 Wire System, Rated up to 400 Amps.  
Continuous, 600 Volts. 105° C

MALE AND FEMALE PANEL PART NUMBERS\*†

RECEPTACLES PER PANEL	MALE PANELS	FEMALE PANELS	COVER COLOR CODE
3	E0400-1600	E0400-1685	GR, N-WH, BK
4	E0400-1661	E0400-1686	GR, BK, RD, BU
4	E0400-1672	E0400-1696	GR, N-WH, BK, RD
5	E0400-1662	E0400-1687	GR, N-WH, BK, RD, BU
5	E0400-1665	E0400-1691	GR, N-WH, BK, BK, BK
5	E0400-1673	E0400-1697	GR, N-BK, YEL, RD, BU *
6	E0400-1860	E0400-1885	GR, N-WH, N-WH, BK, RD, BU

GR = GREEN	N-WH = NEUTRAL WHITE	RD = RED	YEL = YELLOW
BK = BLACK	N-BK = NEUTRAL BLACK	BU = BLUE	* = INTERNATIONAL COLOR CODE

\* Plugs must be ordered separately. See pages 10 and 11.  
† Add an "LS" suffix to end of part number to order panels with a limit switch, on last position. Example: E0400-1687LS

- NOTES:
- E0400 Series have silver plated copper contacts.
  - Panel does not include enclosure or breakers. Posi-Lok System must be installed per local and national standards.
  - Panel receptacles have commercial bronze lock, flat washers, and jam nuts included.



(Part protrudes 5/16" from panel when plugged in.)

FEMALE PLUGS

PART NUMBERS

DESCRIPTION	POSITION	FEMALE COMPLETE PART NO.	FEMALE CONTACT ONLY PART NO.	FEMALE INSULATOR PART NO.	POLARIZING SHELL PART NO.
CRIMP 1/0 - 2/0  300 AMP	GROUND	E0400-241	A201272-4	A200075-64	A201262-6
	NEUTRAL-WHITE	E0400-242	A201272-4	A200075-65	A201262-7
	BLACK	E0400-243	A201272-4	A200075-60	A201262-8
	RED	E0400-244	A201272-4	A200075-62	A201262-9
	BLUE	E0400-245	A201272-4	A200075-66	A201262-10
	NEUTRAL-BLACK *	E0400-251	A201272-4	A200075-60	A201262-22
	YELLOW *	E0400-252	A201272-4	A200075-61	A201262-23
CRIMP 3/0 - 4/0  400 AMP	GROUND	E0400-261	A201272-2	A200075-64	A201262-1
	NEUTRAL-WHITE	E0400-262	A201272-2	A200075-65	A201262-2
	BLACK	E0400-263	A201272-2	A200075-60	A201262-3
	RED	E0400-264	A201272-2	A200075-62	A201262-4
	BLUE	E0400-265	A201272-2	A200075-66	A201262-5
	NEUTRAL-BLACK *	E0400-271	A201272-2	A200075-60	A201262-20
	YELLOW *	E0400-272	A201272-2	A200075-61	A201262-21
DOUBLE SET SCREW #2 - 4/0  400 AMP	GROUND	E0400-281	A201284-1	A200075-64	A201262-1
	NEUTRAL-WHITE	E0400-282	A201284-1	A200075-65	A201262-2
	BLACK	E0400-283	A201284-1	A200075-60	A201262-3
	RED	E0400-284	A201284-1	A200075-62	A201262-4
	BLUE	E0400-285	A201284-1	A200075-66	A201262-5
	NEUTRAL-BLACK *	E0400-291	A201284-1	A200075-60	A201262-20
	YELLOW *	E0400-292	A201284-1	A200075-61	A201262-21

\* INTERNATIONAL COLOR CODE



# Parts, Tools, & Accessories

## LEKTRALINK ASSEMBLY TOOL AND ACCESSORIES

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
A400001	E0315 and E0400 Lektralink Assembly Tool	A200020-2	COM-A-LONG F for E0200 Series, 200 A Panels
100300	Spraylube #70, 12 oz.	A200020-3	COM-A-LONG for pulling male contact in E0315 and E0400 Series
A100632	Tool for removing E0315 and E0400 contacts from insulators	A200020-4	COM-A LONG for pulling female contact in E0315 and E0400 Series
A100072	Cable Cutter - #2 - 4/0 Cable	A101208	2 oz. tube silicon grease for lubricating business end of synthetic rubber insulators
A201310	Insulator holding bracket		
A201303	Assembly tool for 200A plugs		
A200020-1	COM-A-LONG M for E0200 Series, 200 A Panels		



CONNECTOR SERIES NO.	SET SCREW	COPPER SHIM	PRESSURE PAD	RETAINING WIRE	INSTRUCTION SHEET
E0200	100012-33	100400-5	—	100573-1	EB-175
E0315	100012-18	100400-5	101214	100573-1	EB-169
E0400	100012-18	100400-8	101214	100573-1	EB-168

## PROTECTIVE PLUG CAPS

PART NO.	DESCRIPTION
A100601-17	CAP FOR MALE E0315 OR E0400
A100602-17	CAP FOR FEMALE E0315 OR E0400
A201318-1	CAP FOR MALE E0200
A201319-1	CAP FOR FEMALE E0200



## E0400 and E0315 SERIES CRIMPING NEST AND PRESSES\*

CABLE SIZE	CRIMPING NESTS PART NO.	CRIMPING PRESSES
#1 - 2	100514-3	A200914-3
1/0 - 2/0	100514-4	A200914-4
3/0	100514-5	A200914-5
4/0	100514-6	A200914-6



\* Refer to instruction sheets for E0200 and E0400 crimping information.

**COOPER** Crouse-Hinds

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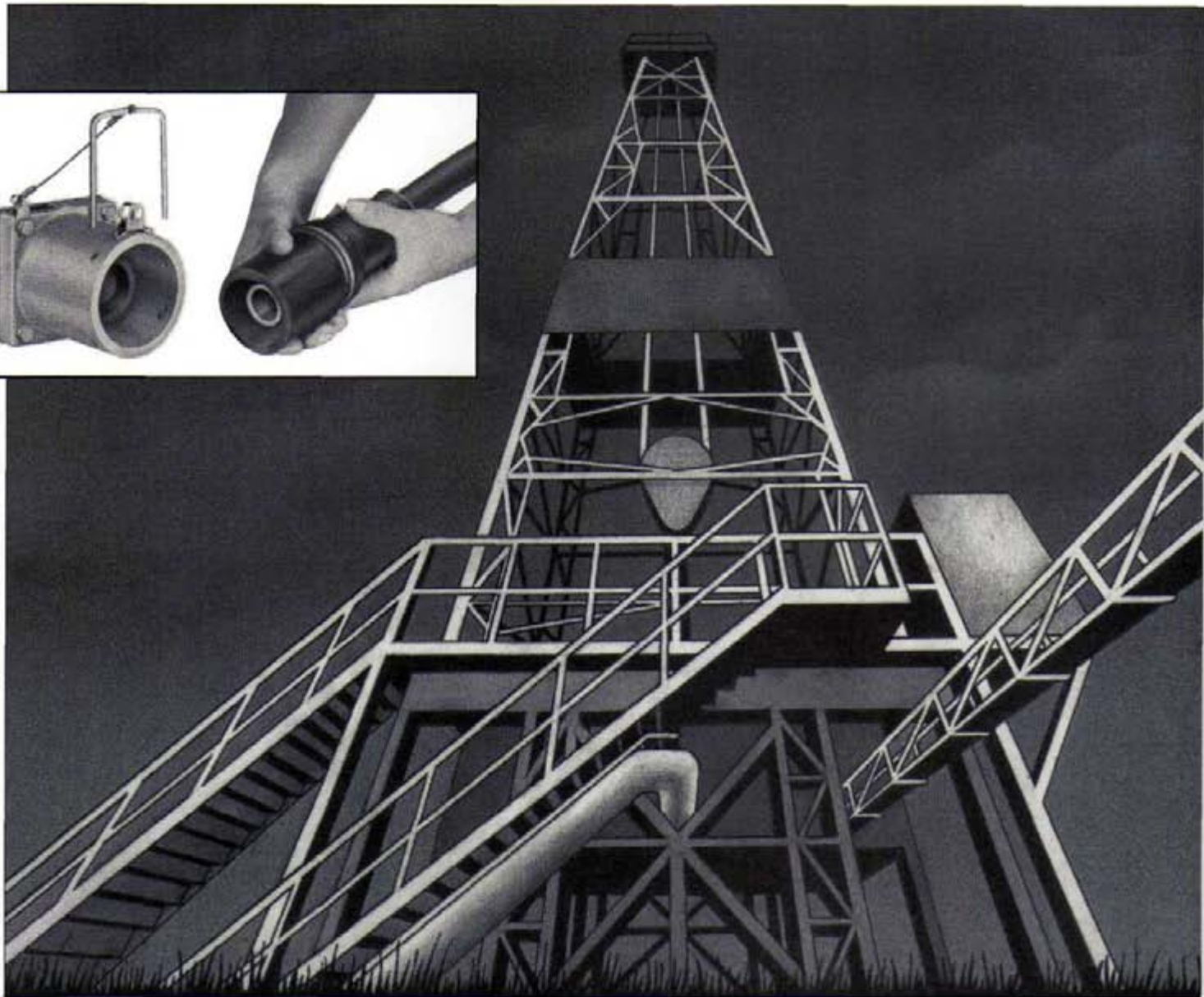
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# **ROUGHNECK**

HIGH AMPERAGE CONNECTORS



CROUSE-HINDS  
**cam-lok**<sup>®</sup>  
CONNECTORS

**COOPER** Crouse-Hinds



# **ROUGHNECK HIGH AMPERAGE CONNECTORS**

FOR USE WITH SINGLE CONDUCTOR FOR 313-777 MCM CABLE, 1000 VOLTS AC/DC, RATED UP TO 1135 AMPERES

*Finally, here's a rugged single conductor connector specifically designed for oil drilling applications. Weatherproof and practically indestructible under the most extreme working conditions, "ROUGHNECK" connectors offer a margin of safety and reliability unavailable until now.*

For years, drilling contractors have been looking for a safe, easily connectable, high amperage connector that would withstand the rigors of day-in-day-out drilling operations. Crouse-Hinds Cam-Lok "Roughneck" Plugs and Receptacles are designed to equal the cable performance at 1135 amps continuous with intermittent surges up to 1300 amps. They're built to take heavy abuse-resistant to wind, rain, mud, oil and sea water, yet they can be quickly connected and disconnected without any tools.

Specially made to handle a variety of drilling applications, the "Roughneck" can be quickly and safely connected to the switchgear or the AC or DC sides of the SCR package and carry power to mud pumps and all other traction motors.

**SIMPLE TO CONNECT AND DISCONNECT**—No tools of any kind are required to connect or disconnect the connector. An external "U" shaped clevis pin locks the halves together eliminating the possibility of accidental disengagement which can cause disruption of service and electrical shock hazards. The clevis pin is designed to permit insertion of a safety wire to provide additional security or the ability to padlock.

**SAFETY**—"Roughneck" Plugs and Receptacles feature totally shielded contacts. The synthetic rubber insulator extends past the ends of both male and female contacts for complete safety. Male contacts are equipped with Crouse-Hinds Cam-Lok's patented Safe Front Insulated Tip to minimize potential shock hazard. It provides the safest high amperage connector in the industry.

**POSITIVE POWER CONNECTION**—Silver plated high conductivity copper alloy contacts provide minimum resistance, minimum heating.

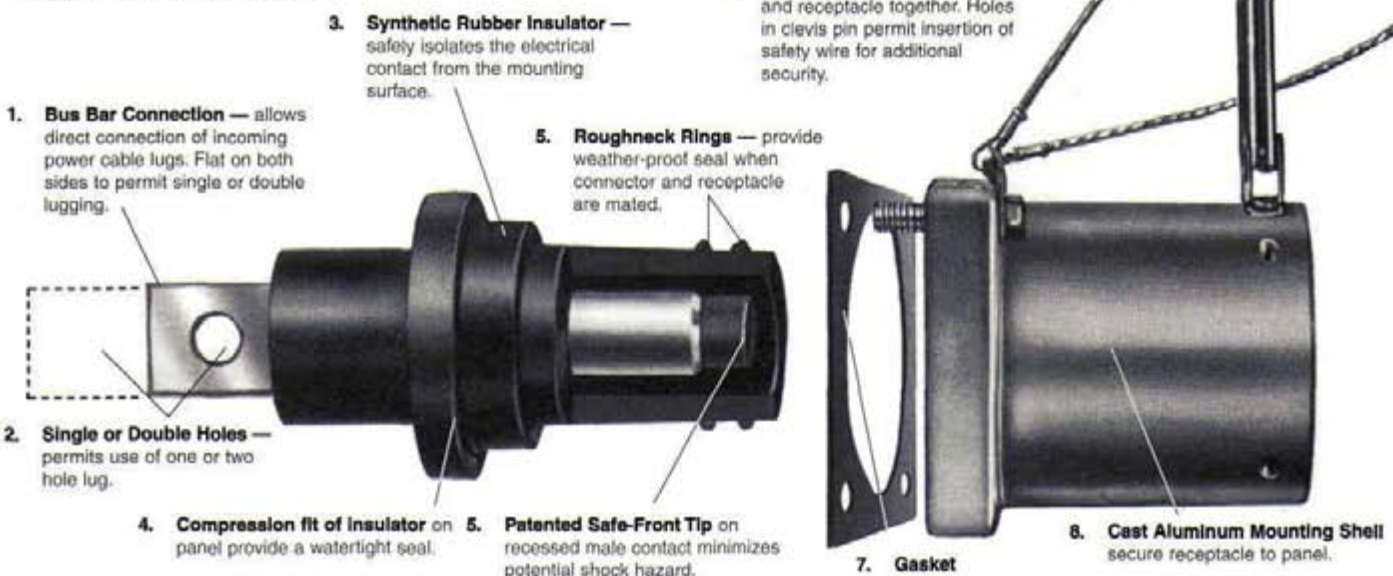
**COLORED INSULATORS FOR IDENTIFICATION**—Eight colors are available to provide easy circuit identification when mating plugs with receptacles. Color coding helps prevent reverse phasing on AC circuits or cross polarization on DC circuits to assure correct rotation of motors while providing for operator safety.

The insulators can be fastened to the cable by hose clamp or by field vulcanizing. Inexpensive portable vulcanizers are available. Refer to Bulletin 590.

AMPACITY RATING — 40°C AMBIENT		
CABLE SIZE	90°C†	125°C†
313 MCM	513 AMPS	636 AMPS
444 MCM	642 AMPS	896 AMPS
535 MCM	724 AMPS	898 AMPS
646 MCM	814 AMPS	1009 AMPS
777 MCM	916 AMPS	1135 AMPS

†Conductor temperature shall not exceed these ratings.

## **COMPLETE MALE RECEPTACLE**



1. **Bus Bar Connection** — allows direct connection of incoming power cable lugs. Flat on both sides to permit single or double lugging.

2. **Single or Double Holes** — permits use of one or two hole lug.

4. **Compression fit of insulator on panel** provide a watertight seal.

5. **Roughneck Rings** — provide weather-proof seal when connector and receptacle are mated.

5. **Patented Safe-Front Tip** on recessed male contact minimizes potential shock hazard.

9. **Clevis Pin** — locks connector and receptacle together. Holes in clevis pin permit insertion of safety wire for additional security.







7. **Gasket**

8. **Cast Aluminum Mounting Shell** secure receptacle to panel.



# ROUGHNECK PLUGS AND RECEPTACLES

CONNECTORS

TYPICAL INSTALLATION	POWER SIDE	LOAD SIDE
AC or DC Output side of switchgear or SCR panel.	 Complete Male Receptacle	 Complete Female Plug
Used when making in-line cable to cable connections.	 Complete Male Plug (with coupler installed)	 Complete Female Plug
Distributes primary AC power to switchgear, transformers or SCR panels.	 Complete Male Plug	 Complete Female Receptacle

## COMPLETE FEMALE PLUG



Plugs are recognized under the Component Program of Underwriters Laboratories, Inc.



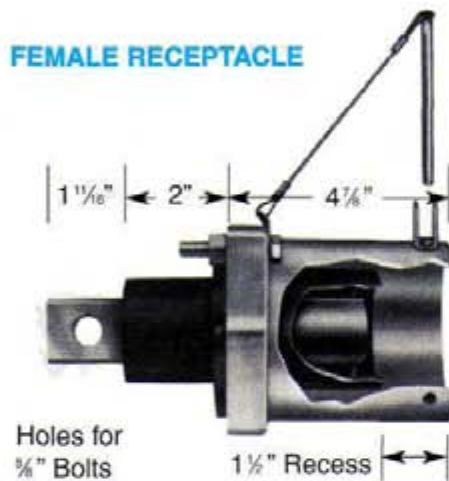
# COUPLERS, RECEPTACLES AND ACCESSORIES

**COUPLER (PART NO. A201096-1)**—Required when making in-line cable connections. Secures male to female when Clevis Pin is inserted. (Includes Clevis Pin, padlock bracket and mounting bolts.)



## PANEL MOUNTED RECEPTACLES

### FEMALE RECEPTACLE



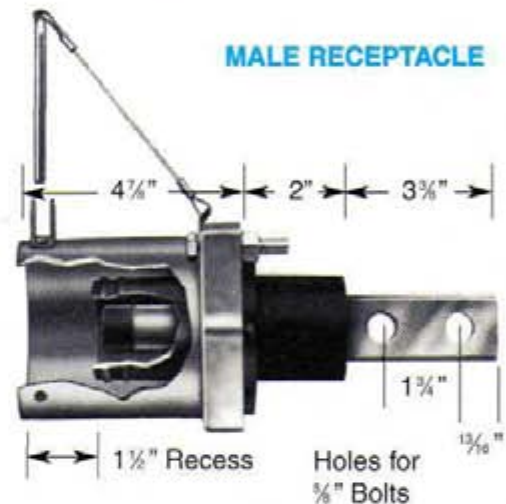
Holes for 5/8" Bolts

1 1/2" Recess



13/32" Dia. Mounting Holes For 5/8" Bolts

### MALE RECEPTACLE



1 1/2" Recess

Holes for 5/8" Bolts

	COMPLETE FEMALE RECEPTACLES		COLOR	COMPLETE MALE RECEPTACLES	
	SINGLE HOLE BUS BAR	DOUBLE HOLE BUS BAR		SINGLE HOLE BUS BAR	DOUBLE HOLE BUS BAR
ARRANGED FOR SINGLE OR DOUBLE HOLD LUGS OR BUS BAR. 313 THROUGH 777 MCM CABLES.	E1049-1825	E1049-1833	Black	E1049-1800	E1049-1808
	E1049-1826	E1049-1834	Yellow	E1049-1801	E1049-1809
	E1049-1827	E1049-1835	Red	E1049-1802	E1049-1810
	E1049-1828	E1049-1836	Orange	E1049-1803	E1049-1811
	E1049-1829	E1049-1837	Green	E1049-1804	E1049-1812
	E1049-1830	E1049-1838	White	E1049-1805	E1049-1813
	E1049-1831	E1049-1839	Blue	E1049-1806	E1049-1814
	E1049-1832	E1049-1840	Brown	E1049-1807	E1049-1815

## Repair and Accessory Items

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
A101058-1	Clevis Pin for Receptacle	201115	Gasket for Casting
A101058-2	Clevis Pin for Coupler	A201120-1	Lockout Kit for Padlocking Receptacle
A201093-1	Casting for Receptacle - Male or Female	A201096-1	Coupler for Mating Male to Female Plug (should be mounted on Male)
A201113-1	Dust Cover Receptacle - Male or Female	319735-1	Neoprene Vulcanizing Tape
A201113-2	Dust Cover for Male Plug, Black	100300	Spraylube #70 Lubricating Compound, 12 oz.
A201114-2	Dust Cover for Female Plug, Black	100312-2	Adhesive, 8 oz. can



FOR 313-777 MCM CABLE, 1000 VOLTS AC/DC, RATED UP TO 1135 AMPERES



TYPE OF CONNECTION AND WIRE SIZE	MALE PLUG			X COLOR	FEMALE PLUG		
	COMPLETE MALE CONNECTOR PART NO. *	INSULATOR ONLY PART NO.	CONTACT ONLY PART NO.		COMPLETE FEMALE CONNECTOR PART NO. *	INSULATOR ONLY PART NO.	CONTACT ONLY PART NO.
HEXAGON CRIMP or SOLDER FOR 313 MCM	E1049-31	A201106-1	A201107-4	Black Yellow Red Orange	E1049-80	A201100-1	A201103-4
	E1049-32	A201106-2	↓		E1049-81	A201100-2	↓
	E1049-33	A201106-3	↓	Green White Blue Brown	E1049-82	A201100-3	↓
	E1049-34	A201106-4	↓		E1049-83	A201100-4	↓
	E1049-35	A201106-5	↓	Green White Blue Brown	E1049-84	A201100-5	↓
	E1049-36	A201106-6	↓		E1049-85	A201100-6	↓
	E1049-37	A201106-7	↓	Green White Blue Brown	E1049-86	A201100-7	↓
	E1049-38	A201106-8	↓		E1049-87	A201100-8	↓
HEXAGON CRIMP or SOLDER FOR 444 MCM	E1049-201	A201106-1	A201107-8	Black Yellow Red Orange	E1049-250	A201100-1	A201103-8
	E1049-202	A201106-2	↓		E1049-251	A201100-2	↓
	E1049-203	A201106-3	↓	Green White Blue Brown	E1049-252	A201100-3	↓
	E1049-204	A201106-4	↓		E1049-253	A201100-4	↓
	E1049-205	A201106-5	↓	Green White Blue Brown	E1049-254	A201100-5	↓
	E1049-206	A201106-6	↓		E1049-255	A201100-6	↓
	E1049-207	A201106-7	↓	Green White Blue Brown	E1049-256	A201100-7	↓
	E1049-208	A201106-8	↓		E1049-257	A201100-8	↓
HEXAGON CRIMP or SOLDER FOR 535 MCM	E1049-1	A201106-1	A201107-1	Black Yellow Red Orange	E1049-50	A201100-1	A201103-1
	E1049-2	A201106-2	↓		E1049-51	A201100-2	↓
	E1049-3	A201106-3	↓	Green White Blue Brown	E1049-52	A201100-3	↓
	E1049-4	A201106-4	↓		E1049-53	A201100-4	↓
	E1049-5	A201106-5	↓	Green White Blue Brown	E1049-54	A201100-5	↓
	E1049-6	A201106-6	↓		E1049-55	A201100-6	↓
	E1049-7	A201106-7	↓	Green White Blue Brown	E1049-56	A201100-7	↓
	E1049-8	A201106-8	↓		E1049-57	A201100-8	↓
HEXAGON CRIMP or SOLDER FOR 646 MCM	E1049-11	A201106-1	A201107-2	Black Yellow Red Orange	E1049-60	A201100-1	A201103-2
	E1049-12	A201106-2	↓		E1049-61	A201100-2	↓
	E1049-13	A201106-3	↓	Green White Blue Brown	E1049-62	A201100-3	↓
	E1049-14	A201106-4	↓		E1049-63	A201100-4	↓
	E1049-15	A201106-5	↓	Green White Blue Brown	E1049-64	A201100-5	↓
	E1049-16	A201106-6	↓		E1049-65	A201100-6	↓
	E1049-17	A201106-7	↓	Green White Blue Brown	E1049-66	A201100-7	↓
	E1049-18	A201106-8	↓		E1049-67	A201100-8	↓
HEXAGON CRIMP or SOLDER FOR 777 MCM	E1049-21	A201106-1	A201107-3	Black Yellow Red Orange	E1049-70	A201100-1	A201103-3
	E1049-22	A201106-2	↓		E1049-71	A201100-2	↓
	E1049-23	A201106-3	↓	Green White Blue Brown	E1049-72	A201100-3	↓
	E1049-24	A201106-4	↓		E1049-73	A201100-4	↓
	E1049-25	A201106-5	↓	Green White Blue Brown	E1049-74	A201100-5	↓
	E1049-26	A201106-6	↓		E1049-75	A201100-6	↓
	E1049-27	A201106-7	↓	Green White Blue Brown	E1049-76	A201100-7	↓
	E1049-28	A201106-8	↓		E1049-77	A201100-8	↓

NOTE — Male plugs and receptacles should be used on the power source side.  
 Female plugs and receptacles should be used on the load distribution side.  
 Do not disconnect under load.

\*Complete Male and Complete Female plugs include dust cap.



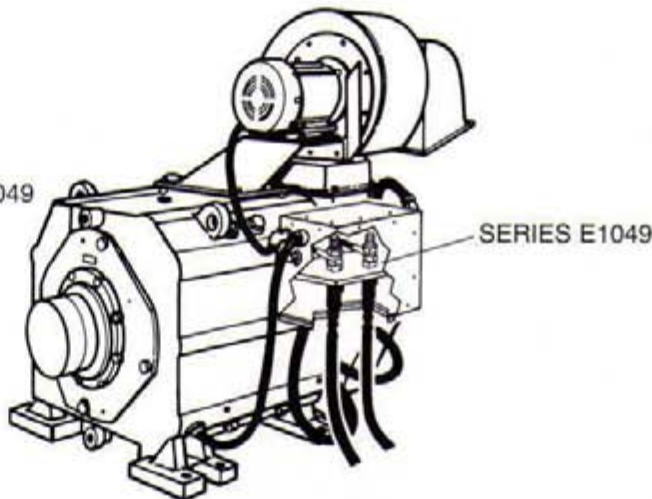
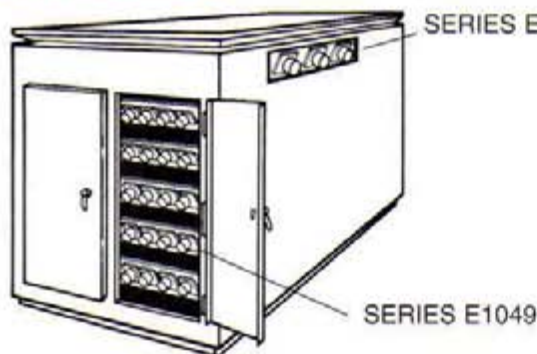
# ROUGHNECK

## HIGH AMPERAGE CONNECTORS

### COST EFFECTIVE - CROUSE-HINDS Cam-Lock

"Roughneck" receptacles are self-contained, self-insulated for direct mounting on steel panels for DC applications and on aluminum or non-magnetic stainless steel for AC installations. The need for special insulating panels is eliminated, assembly time is minimized. The incoming power cable lug or lugs can be bolted directly to the bus bar on the rear of the receptacle. The bus bar can be furnished for either one or two hole lugs. Installation costs are drastically reduced by elimination of expensive bus bars, insulating panels, insulating barriers and assembly time. "Roughneck" Plugs and Receptacles are designed to be the fastest and easiest to install in the industry. The plug contacts can be attached to the cable by either hexagon double crimp or solder.

### TYPICAL APPLICATIONS



### CROUSE-HINDS Cam-Lok "ROUGHNECK" Connectors

can be used wherever a high-amperage, AC or DC connection is required. Use these heavy-duty connectors to safely carry power from generators to switch gear or to SCR packages, to traction motors, including mud pumps, drawworks, rotary tables, cement pumps plus numerous offshore applications.

"ROUGHNECKS" are available in male and female plugs allowing you to make "in-line" connections for specific applications. Eliminates the need for costly wiring boxes while providing a safe yet easy means of joining cable. Crouse-Hinds manufactures over 3,000 different Cam-Lok electrical connectors. If you have need for a specialized connector, contact us. We will study your problem and promptly offer our assistance.



J Power Series  
Bulletin #3338



Welding Products Catalog  
Bulletin #500

Distributed by:

### For more information:

If further assistance is required, please contact an authorized Crouse-Hinds Distributor, Crouse-Hinds Sales Office or Crouse-Hinds Customer Service Department.

### In the U.S.:

Crouse-Hinds Molded Products  
4758 Washington Street  
LaGrange, NC 28551  
(252) 566-3014 FAX: (252) 566-9337

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Crouse-Hinds Canada  
5925 McLaughlin Road  
Mississauga, Ontario  
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(905) 507-4187 FAX: (905) 501-4078

For the latest in new products and services, visit our web site at:

<http://www.crouse-hinds.com>

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CROUSE-HINDS® MOLDED PRODUCTS

# Cam-Lok® Connectors THREE-FER

**NEW  
AND  
IMPROVED!**  
from Crouse-Hinds

Crouse-Hinds® Cam-Lok connectors introduces the new and improved "J" Power THREE-FER Tapping Tee. The males have been extended to facilitate easy mating with existing E1016 Cam-Lok "J" Power products and distribution boxes. Now available in a molded cable version.

## PRODUCT FEATURES:

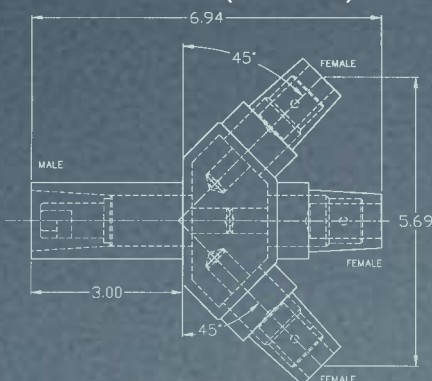
- Meets 1999 National Electrical Code standards for locking-type connectors
- UL Listed and CSA Certified
- Interchangeable with existing "J" Power E1016 products
- Up to 400 Amp maximum rating
- Lay-down configuration for easier installation
- Exclusive Cam-Lok action for high conductivity
- Color-coded insulator to provide fast, easy phase identification
- NEMA 3R rated



## PART NUMBER MATRIX:

COLOR	MALE-FE-FE-FE	FEMALE-M-M-M	MOLDED TO CABLE THREE-FER
Black	E1016-9510	E1016-9580	E1016-9529 Black FE-FE-FE ON
Yellow	E1016-9511	E1016-9590	3ft 2/0 Cable
Red	E1016-9512	E1016-9600	E1016-9530 Black FE-FE-FE ON
Orange	E1016-9513	E1016-9610	3ft 4/0 Cable
Green	E1016-9514	E1016-9620	Other variations available upon request
White	E1016-9515	E1016-9630	
Blue	E1016-9516	E1016-9640	
Brown	E1016-9517	E1016-9650	

## DIMENSIONS: (in inches)



## TECHNICAL SPECIFICATIONS:

Base Compound:	TPE (Santoprene)
Contact Material:	Copper Alloy ASTM B16
Voltage Rating:	600 volt maximum
Amperage Rating:	400 amp maximum

Cam-Lok connectors are only listed when used with genuine Crouse-Hinds Cam-Lok connectors.

**COOPER** Crouse-Hinds  
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CROUSE-HINDS® MOLDED PRODUCTS

# Cam-Lok® Connectors Male-to-Male Adaptor

**NEW**  
from Crouse-Hinds

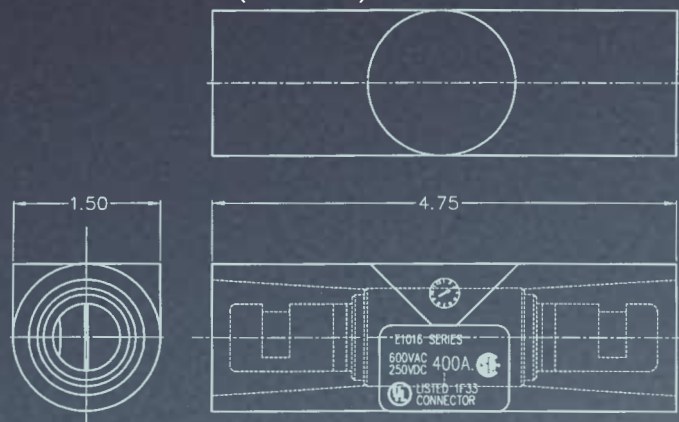
Crouse-Hinds® Cam-Lok connectors introduces the new and improved "J" Power Male-to-Male adaptor specially designed to enhance flexibility for your power distribution applications. This product allows in-line connection between two female Cam-Lok E1016 connectors.



## PRODUCT FEATURES:

- Meets 1999 National Electrical Code standards for locking-type connectors
- UL Listed and CSA Certified
- Intermateable with existing "J" Power E1016 products
- Up to 400 Amp maximum rating
- Exclusive Cam-Lok action for high conductivity
- Color-coded insulator to provide fast, easy phase identification
- NEMA 3R rated

## DIMENSIONS: (in inches)



## TECHNICAL SPECIFICATIONS:

Base Compound:	TPE (Santoprene)
Contact Material:	Copper Alloy ASTM B16
Voltage Rating:	600 volt maximum
Amperage Rating:	400 amp maximum

## PART NUMBER MATRIX:

E1016-2382	Black
E1016-2383	Yellow
E1016-2384	Red
E1016-2385	Orange
E1016-2386	Green
E1016-2387	White
E1016-2388	Blue
E1016-2389	Brown

Professionals demand the best and don't accept copies. Insist on genuine Crouse-Hinds Cam-Lok Connectors. Cam-Lok "J" Power Series Connectors are only listed when used with genuine Cam-Lok Listed Connectors.

### For more information:

If further assistance is required, please contact an authorized Crouse-Hinds Distributor, Crouse-Hinds Sales Office or Crouse-Hinds Customer Service Department.

### In the U.S.:

Crouse-Hinds Molded Products  
4758 Washington Street  
LaGrange, NC 28551  
(252) 566-3014 FAX: (252) 566-9337

### In Canada:

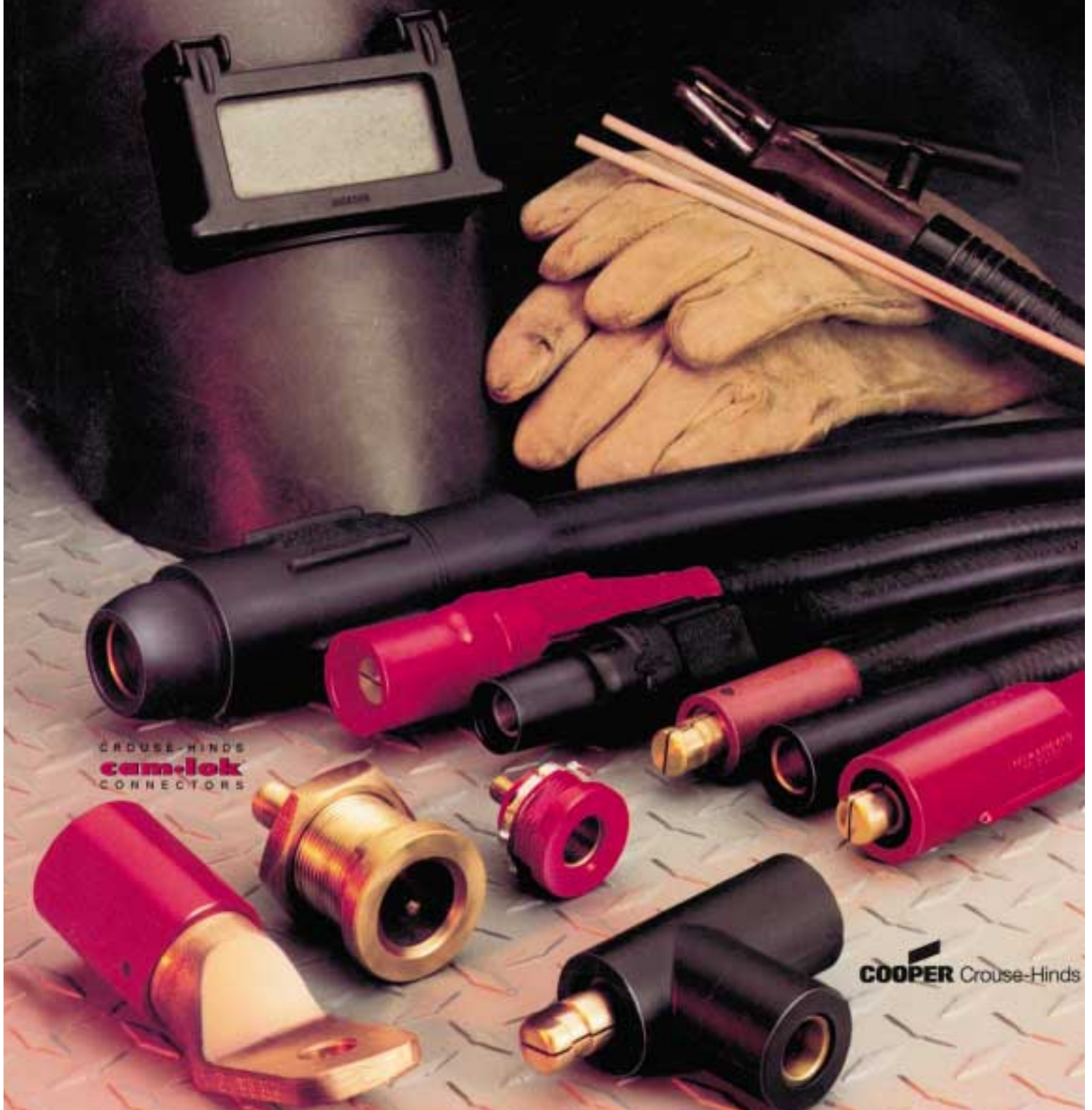
Crouse-Hinds Canada  
5925 McLaughlin Road  
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Canada L5R 1B8  
(905) 507-4187 FAX: (905) 501-4078

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# WELDING PRODUCTS CATALOG



COOPER-CROUSE-HINDS  
**cam-lok**  
CONNECTORS

**COOPER** Crouse-Hinds



# CAM-LOK WELDING PRODUCTS



**Cam-Lok** has been supplying high quality electrical connectors to the welding industry for more than 40 years. No other manufacturer offers a broader line of connectors for both general welding and watertight applications. With Cam-Lok, you're sure to find a connector size and style to meet your special needs.

Leading OEM suppliers of welding equipment prefer Cam-Lok connectors because they are safe and can be quickly connected and disconnected from portable welding equipment.

Best of all, cables of various sizes can be interconnected within each Cam-Lok Series. Using the variety of available Cam-Lok accessories, you can establish a complete welding distribution system. For example, you can distribute power down from 750 MCM to #2 cable. Distribution blocks, tees, receptacles, and female terminal receptacles all carry Cam-Lok's high standards of safety and reliability.



## APPLICATIONS

### F-SERIES

**Originally known as Fibre Series**, these low-resistance, general purpose welding connectors give you important new features. Now made of reinforced thermoplastic, they provide longer life under the rigors of heat treating and stress relieving applications.

These heat-stabilized insulators can handle ambient temperatures in the range of 400° F on an intermittent basis without deterioration. Available in red and black for easy circuit identification.

Economical F-Series connectors are ideal for use on welding power supplies, distribution panels, and patch panels, as well as heat treating and stress relieving applications.

### J-SERIES

J-Series feature synthetic rubber insulators of one piece construction — the ultimate in connector technology. For use in difficult welding environments, they are splash-tight and shatter-resistant with built-in strain relief. There are no exposed pins. **Both male and female contacts are recessed** to prevent arcing or burning.

Choose molded-to-cable or field-attachable styles. J-Series are available in red and black synthetic rubber for easy phase identification.

If you're choosing a welding connector for the first time, J-Series offers all the features you'll want to start with and stay with.

### STANDARD SERIES

This is the original watertight connector chosen by major OEM providers of welding equipment. The efficient "ball-nose" design provides a splash-tight seal.

These reliable Standard Series connectors have been used for years in shipyards, construction sites, and power plants. Standard Series connectors are available in both molded-to-cable and field-attachable versions. They are easily interconnectable with existing distribution blocks and systems with the "ball nose" design manufactured by major OEM's.

# Check these features of Cam-Lok plugs and receptacles...

**EXCLUSIVE CAM-LOK ACTION FOR HIGH CONDUCTIVITY** - Cam-Lok's double cam principle provides a positive, vibration-proof connection. Just 1/3 of a turn assures a high pressure contact approaching 600 lbs. per sq./in., providing minimum resistance. It gives the best electrical and mechanical connection possible. There is no moving of contact surfaces and, therefore, no arcing or burning of contacts. The contacts are a high conductivity copper base alloy, carefully machined to a smooth sliding fit, even before locking. They are SELF-COMPENSATING for wear. Locked contacts will withstand a pulling force of 1000 lbs.

**INTERCONNECTABILITY** - All Cam-Lok connectors within a series have the same connection diameter, allowing you to connect smaller cables to larger ones. For example, in the E1012 Series, you can connect a #2 to a 4/0 cable connector without an adaptor.

**PANEL RECEPTACLES** - Available in high-impact plastic or synthetic rubber styles, Cam-Lok panel mounted receptacles permit cables to be quickly connected or disconnected to the equipment without special tools. Both male and female receptacles are available in red or black for easy circuit identification. Comes with threaded stud for lug connection and conduit lock nut for securing receptacle to panel.

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<b>E1010 F-Series</b>	page 7
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<b>E1013 Fibre-Series</b> <small>(see note at bottom of page 15)</small>	page 15
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## A VIEW OF THE F-SERIES





# MOLDED-TO-CABLE STYLE PLUGS AND ASSEMBLY EQUIPMENT

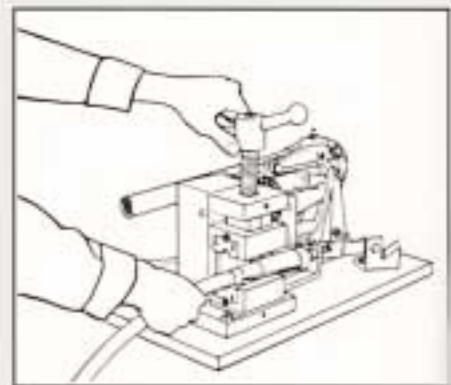
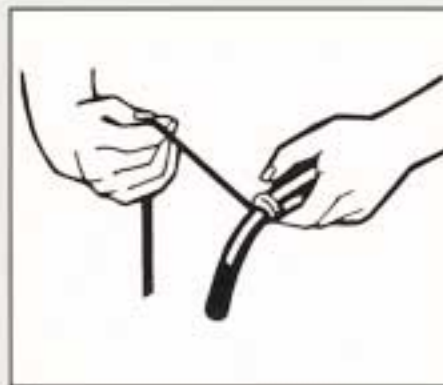
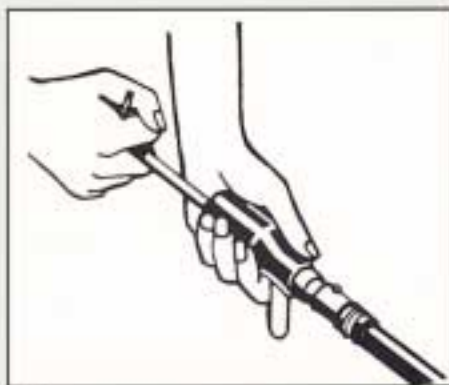
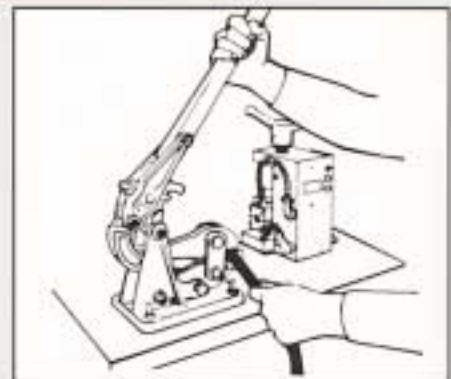
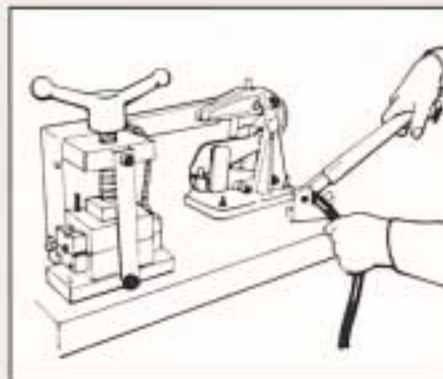
**These Rugged, Vulcanized Plugs Provide Maximum Strain Relief And Watertightness For Long Life Under Severe Welding Applications**



Cam-Lok molded-to-cable plugs are the ultimate design for use on multiple operator stations, distribution panels, stress relieving, and other low voltage applications.

## FIVE SIMPLE STEPS GIVE YOU MOLDED-TO-CABLE PLUGS

Only Cam-Lok gives you portable vulcanizing kits and presses for molding plugs to cable. In your plant or in the field, they let you make safe, waterproof, shockproof cable connections in only minutes. Vulcanization reduces cable breakage by distributing flexing over a wide area. Vulcanized connections can be used outdoors in all kinds of weather.



# PORTABLE VULCANIZING KITS & PRESSES



## Vulcanize Connectors And Splices With The Same Basic Equipment

The vulcanizing press used for connectors may be converted to a splicing press by replacing connector mold bushings with splice mold bushings (consult factory).

### COMPLETE VULCANIZING KITS

Cable Size	Cable O.D.	E1016 Series	E1018 Series
#6	.370	A300100-1	A300101-1
#4	.420	A300100-2	A300101-2
#2	.495	A300100-3	A300101-3
#1	.550	A300100-4	A300101-4
1/0	.615	A300100-5	A300101-5
2/0	.656	A300100-6	A300101-6
3/0	.710	A300100-7	A300101-7
4/0	.815	A300100-8	A300101-8

Vulcanizing kit for cable sizes #6-4/0 comes complete with mold bushings and crimping nest for one cable size. Additional cable sizes can be accommodated by ordering additional mold bushings (listed at left). See page 16 for crimping presses and nests.

NOTE: Vulcanizing equipment for cable sizes #6-4/0 is not interchangeable with equipment for cable sizes 350-750 MCM.



### VULCANIZING PRESSES ONLY

Cable Size	Cable O.D.	E1016 Series	E1018 Series	E1017 Series	E1019 Series
#6	.370	A300103-1	A300104-1	N/A	N/A
#4	.420	A300103-2	A300104-2	N/A	N/A
#2	.495	A300103-3	A300104-3	N/A	N/A
#1	.550	A300103-4	A300104-4	N/A	N/A
1/0	.615	A300103-5	A300104-5	N/A	N/A
2/0	.656	A300103-6	A300104-6	N/A	N/A
3/0	.710	A300103-7	A300104-7	N/A	N/A
4/0	.815	A300103-8	A300104-8	N/A	N/A
350 MCM	1.080	N/A	N/A	A300106-1	A300107-1
500 MCM	1.250	N/A	N/A	A300106-2	A300107-2
750 MCM	1.490	N/A	N/A	A300106-3	A300107-3

Vulcanizing press for cable sizes #6-750 MCM comes complete with mold bushings for one cable size. Additional cable sizes can be accommodated by ordering additional mold bushings to match your cable size (listed at left).

NOTE: Vulcanizing equipment for cable sizes #6-4/0 is not interchangeable with equipment for cable sizes 350-750 MCM.



### PLUG MOLDING BUSHINGS

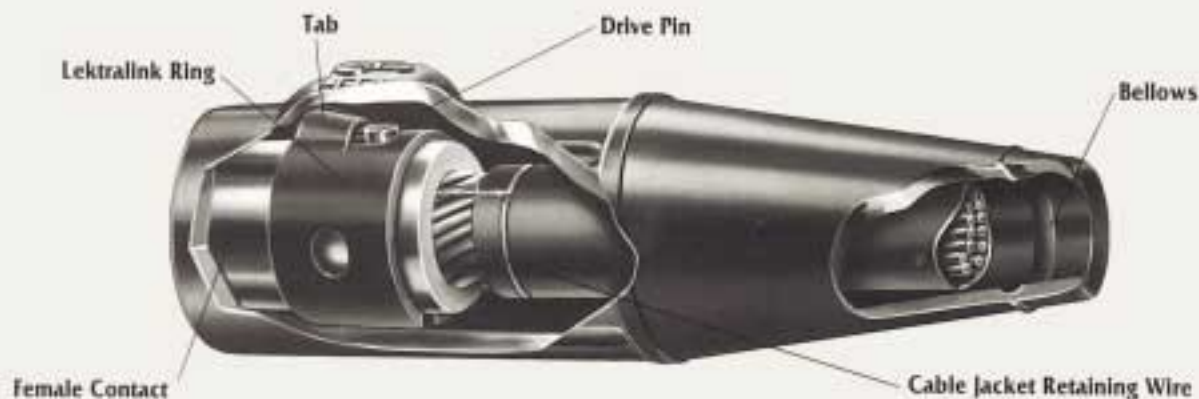
Cable Size	Nominal Cable O.D.	E1016 & E1018 Series	E1017 & E1019 Series
#6	.370	200895-1	N/A
#4	.420	200895-2	N/A
#2	.495	200895-3	N/A
#1	.550	200895-4	N/A
1/0	.615	200895-5	N/A
2/0	.656	200895-6	N/A
3/0	.710	200895-7	N/A
4/0	.815	200895-8	N/A
350 MCM	1.080	N/A	200006-3
500 MCM	1.250	N/A	200006-5
750 MCM	1.490	N/A	200006-7





# LEKTRALINK™ STYLE PLUGS AND ASSEMBLY EQUIPMENT

**For Moisture-Resistant Connectors Without Vulcanizing, You Need This Easily Attachable Lektralink Insulator.**



Lektralink Style Plugs are available in E1012, E1016, and E1018 series.

**You can assemble welding plugs and receptacles to cables in seconds without vulcanization by using Cam-Lok's patented Lektralink design. The recessed contacts and full-length synthetic rubber insulator with no exposed set-screws or pins eliminate dangerous shock hazard.**

**SAFE, EASY ASSEMBLY** - The Lektralink design features a locking ring permanently molded into the insulator. Made of high strength material, it cannot cause inductive heating. As the contact is pulled into the insulator, a drive pin is captured by the ring, locking the contact into a fixed position.

**EASE OF DISASSEMBLY** - Insert a 3/16" wide screwdriver blade between the contact and insulator, raise the tab on the locking ring, and pull the contact from the insulator.

**LEKTRALINK PLUG ASSEMBLY TOOL** - If you use a large number of welding connectors, or simply want to make final plug assembly even faster, you need the Lektralink Plug Assembly Tool.

This portable, lightweight fixture can be

taken to the job site or permanently mounted to a work bench. To push the contact into the insulator, simply insert the partially assembled plug into the fixture, push down on the lever, and assembly is complete.

Use the Lektralink Plug Assembly Tool to

assemble these male and female plugs:

**Lektralink F-Series E1012**

**Lektralink J-Series E1016**

**Lektralink Standard Series E1018**

Order Catalog Part No. A400001. One tool can be adjusted to assemble all Lektralink style insulators.





**MALE PLUG**

Cable Size	Color	Complete Part No.	Insulator Part No.
#8-#4	Red	E1010-61	201281-410RM
#8-#4	Black	E1010-62	201281-410BM
#8-#4	Red	E1010-101	201281-410RM
#8-#4	Black	E1010-102	201281-410BM

**FEMALE PLUG**

Complete Part No.	Insulator Part No.	Retaining Pin Part No.
E1010-71	201281-410RF	100091-2
E1010-72	201281-410BF	100091-2
E1010-111	201281-410RF	100091-2
E1010-112	201281-410BF	100091-2

**SET-SCREW**

**SOLDER**



MALE



FEMALE

**Dimensions:**

male: length 2 1/2", diameter 1 1/2"

female: length 3", diameter 1 1/2"

**FEMALE TERMINAL CONNECTORS**

Cable Size	Color	Angle Style Part No.	Offset Style Part No.
#8-#4	Red	E1010-181	E1010-201
#8-#4	Black	E1010-182	E1010-202

Boil Hole 1/4"



ANGLE STYLE



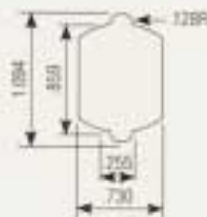
OFFSET STYLE

**HIGH-IMPACT PLASTIC RECEPTACLES**

Cable Size	Color	Part No.	Description
#8-#4	Red	E1010-301	Female Receptacle
#8-#4	Black	E1010-302	Female Receptacle
#8-#4	Red	E1010-307	Male Receptacle
#8-#4	Black	E1010-308	Male Receptacle

**Dimensions:**

female: length 1 1/2", 1/2" 20 thread, 1/2" long



**Mounting Dimensions**



FEMALE



MALE





### MALE PLUG

### FEMALE PLUG



MALE



FEMALE

	Cable Size	Color	Complete Part No.	Insulator Part No.	Complete Part No.	Insulator Part No.	Retaining Pin Part No.
<b>SET-SCREW</b>	#2-1/0	Red	E1012-61	201281-612RM	N/A	N/A	100091-4
	#2-1/0	Black	E1012-62	201281-612BM	N/A	N/A	100091-4
	1/0-3/0	Red	E1012-63	201281-712RM	E1012-71	201281-712RF	100091-5
	1/0-3/0	Black	E1012-64	201281-712BM	E1012-72	201281-712BF	100091-5
	3/0-4/0	Red	E1012-65	201281-812RM	E1012-73	201281-812RF	100091-6
	3/0-4/0	Black	E1012-66	201281-812BM	E1012-74	201281-812BF	100091-6
<b>SOLDER</b>	#2-1/0	Red	E1012-101	201281-612RM	N/A	N/A	100091-4
	#2-1/0	Black	E1012-102	201281-612BM	N/A	N/A	100091-4
	1/0-3/0	Red	E1012-103	201281-712RM	E1012-111	201281-712RF	100091-5
	1/0-3/0	Black	E1012-104	201281-712BM	E1012-112	201281-712BF	100091-5
	3/0-4/0	Red	E1012-105	201281-812RM	E1012-113	201281-812RF	100091-6
	3/0-4/0	Black	E1012-106	201281-812BM	E1012-114	201281-812BF	100091-6

**Dimensions:**

male: length 4" diameter 1 1/4"

female: length 4" diameter 1 1/4"

### MALE PLUG

### FEMALE PLUG



MALE



FEMALE

	Cable Size	Color	Complete Part No.	Contact Part No.	Insulator Part No.	Complete Part No.	Contact Part No.	Insulator Part No.
<b>SINGLE SET-SCREW</b>	#2-2/0	Black	E1012-8300	A200081-1	A200068-19	E1012-8325	A200067-1	A200069-19
	#2-2/0	Red	E1012-8302	A200081-1	A200068-21	E1012-8327	A200067-1	A200069-21
	2/0-4/0	Black	E1012-8312	A200080-1	A200068-13	E1012-8337	A200066-1	A200069-13
	2/0-4/0	Red	E1012-8314	A200080-1	A200068-15	E1012-8339	A200066-1	A200069-15
<b>DOUBLE SET-SCREW</b>	#2-2/0	Black	E1012-8350	A200643-1	A200068-19	E1012-8375	A200640-1	A200069-19
	#2-2/0	Red	E1012-8352	A200643-1	A200068-21	E1012-8377	A200640-1	A200069-21
	2/0-4/0	Black	E1012-8362	A200644-1	A200068-13	E1012-8387	A200642-1	A200069-13
	2/0-4/0	Red	E1012-8364	A200644-1	A200068-15	E1012-8389	A200642-1	A200069-15
<b>CRIMP OR SOLDER</b>	#2-#1	Black	E1012-8006	A200036-30	A200068-19	E1012-8056	A200037-35	A200069-19
	#2-#1	Red	E1012-8008	A200036-30	A200068-21	E1012-8058	A200037-35	A200069-21
	1/0-2/0	Black	E1012-8012	A200036-31	A200068-19	E1012-8062	A200037-36	A200069-19
	1/0-2/0	Red	E1012-8014	A200036-31	A200068-21	E1012-8064	A200037-36	A200069-21
	3/0-4/0	Black	E1012-8030	A200038-30	A200068-13	E1012-8080	A200035-53	A200069-13
	3/0-4/0	Red	E1012-8032	A200038-30	A200068-15	E1012-8082	A200035-53	A200069-15

**Dimensions:**

male: length 5 1/2" diameter 1 1/4"

female: length 6 1/4" diameter 1 1/4"



### FEMALE TERMINAL CONNECTORS

Cable Size	Color	Angle Style Part No.	Offset Style Part No.
#2-3/0	Red	A201317-1	A201317-5
#2-3/0	Black	A201317-2	A201317-6
4/0	Red	A201317-3	N/A
4/0	Black	A201317-4	N/A

Bolt Hole:  $\frac{1}{4}$ "



ANGLE STYLE

OFFSET STYLE

### THREE WAY "T" CONNECTORS

Cable Size	Color	Paralleling "T" Part No.	Tapping "T" Part No.
#2-4/0	Black	E1012-2324	E1012-2312

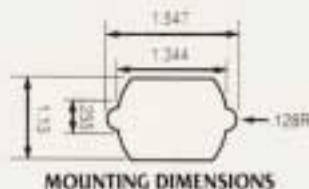


PARALLELING "T"  
(MALE-MALE-FEMALE)

TAPPING "T"  
(MALE-FEMALE-FEMALE)

### HIGH-IMPACT PLASTIC RECEPTACLES

Cable Size	Color	Part No.	Description
#2-3/0	Red	E1012-301	Female Receptacle Light Duty
#2-3/0	Black	E1012-302	Female Receptacle Light Duty
#2-4/0	Red	E1012-303	Female Receptacle Medium Duty
#2-4/0	Black	E1012-304	Female Receptacle Medium Duty
#2-4/0	Red	E1012-305	Female Receptacle Heavy Duty
#2-4/0	Black	E1012-306	Female Receptacle Heavy Duty
#2-3/0	Red	E1012-307	Male Receptacle for all applications
#2-4/0	Black	E1012-308	Male Receptacle for all applications



FEMALE

MALE

#### Dimensions:

female: length  $1\frac{1}{4}$ "  $\frac{1}{4}$ " 16 thread  $1\frac{1}{2}$ " long

male: length  $2\frac{1}{4}$ " thread  $1\frac{1}{2}$ " long





## LEXTRALINK



MALE



FEMALE

## MALE PLUG

	Cable Size	Color	Complete Part No.	Contact Only Part No.	Insulator Only Part No.	Complete Part No.	Contact Only Part No.	Insulator Only Part No.
<b>CRIMP OR SOLDER</b>	#2-#1	Black	E1016-8006	A200036-18	A200074-19	E1016-8056	A200037-23	A200075-19
	#2-#1	Red	E1016-8008	A200036-18	A200074-21	E1016-8058	A200037-23	A200075-21
	1/0-2/0	Black	E1016-8012	A200036-19	A200074-19	E1016-8062	A200037-24	A200075-19
	1/0-2/0	Red	E1016-8014	A200036-19	A200074-21	E1016-8064	A200037-24	A200075-21
	3/0-4/0	Black	E1016-8030	A200038-6	A200074-13	E1016-8080	A200035-14	A200075-13
	3/0-4/0	Red	E1016-8032	A200038-6	A200074-15	E1016-8082	A200035-14	A200075-15
<b>SINGLE SET-SCREW</b>	#2-2/0	Black	E1016-8300	A200065-1	A200074-19	E1016-8325	A200067-3	A200075-19
	#2-2/0	Red	E1016-8302	A200065-1	A200074-21	E1016-8327	A200067-3	A200075-21
	2/0-4/0	Black	E1016-8312	A200064-1	A200074-13	E1016-8337	A200090-1	A200075-13
	2/0-4/0	Red	E1016-8314	A200064-1	A200074-15	E1016-8339	A200090-1	A200075-15
<b>DOUBLE SET-SCREW</b>	#2-2/0	Black	E1016-8350	A200630-1	A200074-19	E1016-8375	A200640-3	A200075-19
	#2-2/0	Red	E1016-8352	A200630-1	A200074-21	E1016-8377	A200640-3	A200075-21
	2/0-4/0	Black	E1016-8362	A200639-1	A200074-60	E1016-8387	A200641-1	A200075-60
	2/0-4/0	Red	E1016-8364	A200639-1	A200074-62	E1016-8389	A200641-1	A200075-62

**Dimensions:**

male: length  $7\frac{1}{2}$ " diameter  $1\frac{1}{2}$ "

female: length  $5\frac{1}{2}$ " diameter  $1\frac{1}{2}$ "

## MOLDED-TO-CABLE



MALE



FEMALE

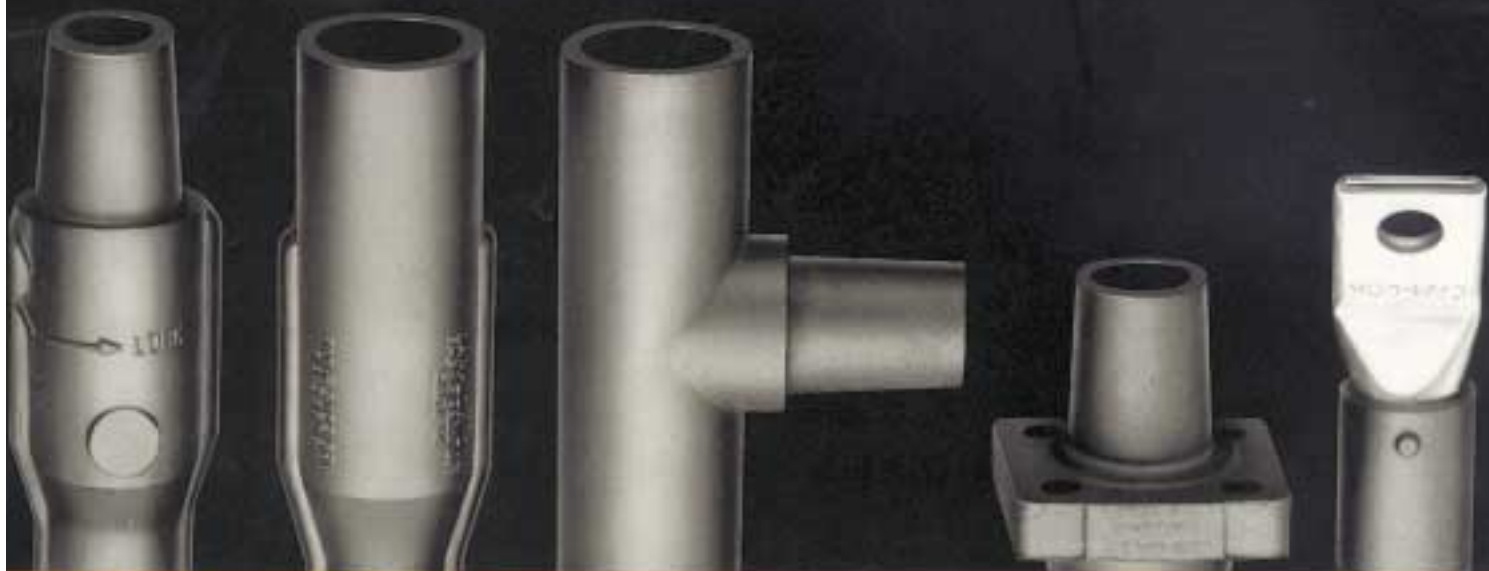
## MALE PLUG

	Cable Size	Color	Complete Part No.	Contact Only Part No.	Insulator Only Part No.	Complete Part No.	Contact Only Part No.	Insulator Only Part No.
<b>CRIMP OR SOLDER</b>	#2-#1	Black	E1016-7	A200036-2	A200706-7	E1016-56	A200037-2	A200706-7
	#2-#1	Red	E1016-9	A200036-2	A200706-9	E1016-58	A200037-2	A200706-9
	1/0-2/0	Black	E1016-13	A200036-3	A200706-7	E1016-62	A200037-3	A200706-7
	1/0-2/0	Red	E1016-15	A200036-3	A200706-9	E1016-64	A200037-3	A200706-9
	3/0-4/0	Black	E1016-31	A200038-2	A200706-13	E1016-80	A200035-2	A200706-13
	3/0-4/0	Red	E1016-33	A200038-2	A200706-15	E1016-82	A200035-2	A200706-15

**Dimensions:**

male: length  $5\frac{1}{2}$ " diameter  $1\frac{1}{2}$ "

female: length  $4\frac{3}{4}$ " diameter  $1\frac{1}{2}$ "



**FEMALE TERMINAL CONNECTORS**

Cable Size	Color	Angle Style Part No.	Offset Style Part No.
#2-4/0	Black	E1016-575	E1016-625
#2-4/0	Red	E1016-577	N/A



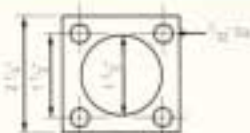
ANGLE STYLE

OFFSET STYLE

Bolt Hole:  $\frac{1}{2}$ "

**INSULATED RECEPTACLES**

Cable Size	Color	Male Part No.	Female Part No.	Description
#2-4/0	Black	E1016-1500	E1016-1631	Threaded style
#2-4/0	Red	E1016-1602	E1016-1633	Threaded style
#2-4/0	Black	E1016-1700	E1016-1725	Double set-screw
#2-4/0	Red	E1016-1702	E1016-1727	Double set-screw



MOUNTING DIMENSIONS



MALE  
THREADED STUD STYLE

FEMALE  
DOUBLE SET-SCREW STYLE

**THREE WAY 'T' CONNECTORS**

Cable Size	Color	Paralleling 'T' Part No.	Tapping 'T' Part No.	Double Female Part No.
#2-4/0	Black	E1016-2324	E1016-2312	E1016-2352
#2-4/0	Red	E1016-2325	E1016-2314	E1016-2354



PARALLELING 'T'  
(MALE-MALE-FEMALE)

TAPPING 'T'  
(MALE-FEMALE-FEMALE)

DOUBLE FEMALE

**PROTECTIVE CAPS**

Part No.	Color	Description
A100501-1	Black	Cap for Male
A100502-1	Black	Cap for Female
A100895-1	Plated	Snap Back Metal Cover



CAP FOR MALE

CAP FOR FEMALE

SNAP BACK METAL COVER



# E1018 Series STANDARD



## LEXTRALINK

## MALE PLUG

## FEMALE PLUG



	Cable Size	Color	Complete Part No.	Contact Part No.	Insulator Part No.	Complete Part No.	Contact Part No.	Insulator Part No.
<b>SINGLE SET-SCREW</b>	#2-2/0	Black	E1018-8300	A200065-1	A200071-19	E1018-8325	A200067-4	A200072-19
	2/0-4/0	Black	E1018-8312	A200064-1	A200071-13	E1018-8337	A200090-2	A200072-13
<b>CRIMP OR SOLDER</b>	#2-#1	Black	E1018-8006	A200036-18	A200071-19	E1018-8056	A200037-27	A200072-19
	1/0-2/0	Black	E1018-8012	A200036-19	A200071-19	E1018-8062	A200037-28	A200072-19
	3/0-4/0	Black	E1018-8030	A200038-6	A200071-13	E1018-8080	A200035-16	A200072-13

Dimensions:  
 male: length  $6\frac{3}{8}$ " diameter  $1\frac{1}{2}$ "  
 female: length  $6\frac{3}{8}$ " diameter  $1\frac{1}{2}$ "

## MOLDED-TO-CABLE

## MALE PLUG

## FEMALE PLUG



	Cable Size	Color	Complete Part No.	Contact Only Part No.	Insulator Only Part No.	Complete Part No.	Contact Only Part No.	Insulator Only Part No.
<b>CRIMP OR SOLDER</b>	#2-#1	Black	E1018-7	A200036-2	A200607-7	E1018-56	A200037-6	A200608-7
	1/0-2/0	Black	E1018-13	A200036-3	A200607-7	E1018-62	A200037-7	A200608-7
	3/0-4/0	Black	E1018-31	A200038-2	A200607-13	E1018-80	A200035-4	A200608-13

Dimensions:  
 male: length  $5\frac{1}{8}$ " diameter  $1\frac{1}{2}$ "  
 female: length  $4\frac{1}{8}$ " diameter  $1\frac{1}{2}$ "



### FEMALE TERMINAL CONNECTORS

Cable Size	Color	Angle Style Part No.	Offset Style Part No.
#2-4/0	Black	E1018-575	E1018-625
#2-4/0	Red	N/A	N/A



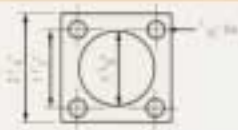
ANGLE STYLE

OFFSET STYLE

Bolt Hole  $\frac{1}{2}$ "

### INSULATED RECEPTACLES

Cable Size	Color	Part No.	Description
#2-4/0	Black	E1018-1600	Male Receptacle
#2-4/0	Black	E1018-1631	Female Receptacle



MALE

FEMALE

### THREE WAY 'T' CONNECTORS

Cable Size	Color	Paralleling 'T' Part No.	Tapping 'T' Part No.
#2-4/0	Black	E1018-2324	E1018-2312



PARALLELING 'T'  
(MALE-MALE-FEMALE)

TAPPING 'T'  
(MALE-FEMALE-FEMALE)

### PROTECTIVE CAPS

Part No.	Color	Description
A100433-1	Black	Cap for Female
A100435-1	Black	Cap for Male



CAP FOR FEMALE

CAP FOR MALE



# E1017 Series

Connectors and Accessories for cable size 350-750 MCM, 600 volts, rated up to 690 amperes continuous, 1150 amperes intermittent



## MOLDED-TO-CABLE



MALE



FEMALE

## MALE PLUG

Cable Size	Color	Complete Part No.	Contact Part No.	Insulator Part No.
------------	-------	-------------------	------------------	--------------------

**CRIMP OR SOLDER**

350MCM	Black	E1017-1	A200028-1	A200056-1
500MCM	Black	E1017-7	A200028-2	A200056-1
750MCM	Black	E1017-13	A200028-3	A200056-7

**DOUBLE SET-SCREW**

350-500MCM	Black	E1017-350	A200612-1	A200056-1
------------	-------	-----------	-----------	-----------

NOTE: When using double set-screw style contacts, a hose clamp or plastic cable tie must be used to secure insulator at cable end. (Refer to EB494 for assembly instructions.)

Dimensions: male: length 7<sup>3</sup>/<sub>16</sub>" diameter 2<sup>1</sup>/<sub>16</sub>" female: length 5<sup>1</sup>/<sub>2</sub>" diameter 2<sup>3</sup>/<sub>16</sub>"

## FEMALE PLUG

Complete Part No.	Contact Part No.	Insulator Part No.
-------------------	------------------	--------------------

E1017-50	A200027-5	A200040-1
E1017-56	A200027-6	A200040-1
E1017-62	A200027-7	A200040-7

E1017-375	A200614-2	A200040-1
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## FEMALE TERMINAL CONNECTORS

Cable Size	Color	Angle Style Part No.	Offset Style Part No.
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350-750MCM	Black	E1017-575	E1017-625
------------	-------	-----------	-----------

Bolt Hole <sup>5</sup>/<sub>16</sub>"



ANGLE STYLE



OFFSET STYLE

## INSULATED RECEPTACLES

Cable Size	Color	Part No.	Description
------------	-------	----------	-------------

350-750MCM	Black	E1017-1600	Male 90°
350-750MCM	Black	E1017-1601	Male 30°
350-750MCM	Black	E1017-1625	Female 90°
350-750MCM	Black	E1017-1626	Female 30°



MALE 30°



FEMALE 90°

## PROTECTIVE CAPS

Part No.	Color	Description
----------	-------	-------------

A100603-1	Black	Cap for Male
A100604-1	Black	Cap for Female



CAP FOR MALE



CAP FOR FEMALE

Connectors and Accessories for cable size 350-750 MCM, 120 volts, rated up to 690 amperes continuous, 1150 amperes intermittent

# STANDARD E1019 Series



## MALE PLUG

Cable Size	Color	Complete Part No.	Contact Part No.	Insulator Part No.
350 MCM	Black	E1019-1	A200028-1	A200058-1
500 MCM	Black	E1019-7	A200028-2	A200058-1
750 MCM	Black	E1019-13	A200028-3	A200058-7

## FEMALE PLUG

Complete Part No.	Contact Part No.	Insulator Part No.
E1019-50	A200027-1	A200057-1
E1019-56	A200027-2	A200057-1
E1019-62	A200027-3	A200057-7

## MOLDED-TO-CABLE



**CRIMP  
OR  
SOLDER**

### Dimensions:

male: length  $5\frac{1}{8}$ " diameter  $2\frac{3}{4}$ "

female: length  $6\frac{1}{8}$ " diameter  $2\frac{3}{4}$ "

## FEMALE TERMINAL CONNECTORS

Cable Size	Color	Angle Style Part No.	Offset Style Part No.
350-750 MCM	Black	E1019-575	E1019-625

Bolt Hole:  $\frac{3}{8}$ "



## INSULATED RECEPTACLES

Cable Size	Color	Part No.	Description
350-750 MCM	Black	E1019-1600	Male 90°
350-750 MCM	Black	E1019-1601	Male 30°
350-750 MCM	Black	E1019-1625	Female 90°
350-750 MCM	Black	E1019-1626	Female 30°



## PROTECTIVE CAPS

Part No.	Color	Description
A100434-1	Black	Cap for Female
A100436-1	Black	Cap for Male



NOTE: The E1013 Fibre connectors have been replaced with E1019 Series. The original style fibre connectors are interchangeable with the synthetic rubber E1019 Series. If you choose not to mold these to cable, use EB#94 which illustrates the use of a hose clamp or plastic cable tie to secure insulator at cable end.



# PARTS AND ACCESSORIES

## MOLDING PRESS PARTS AND VULCANIZING ACCESSORIES

Part No.	Description	Complete Part No.	Description
A400001	All Mold Kits and Presses, see page 4	100827-3	*Mold Press Pilot Light - Red, complete with wired socket
319735-1	Lektralink Assembly Tool, see page 6	200704-2	Cartridge Heater - 350-750 MCM Molds
100300	Neoprene Vulcanizing Tape, 3/4" x 30" roll	200704-3	Cartridge Heater - #2-4/0 Molds
100300-1	Spraylube #70 lubricating compound, 12 oz.	A100072	Cable Cutter - #2-4/0 Cable
100300-1	Spraylube #70 lubricating compound, 18 oz., brush applicator can	A200020-3	COM-A-LONG for pulling male contact in E1012, E1016, E1018 Series
100312-2	Adhesive 8 oz. can	A200020-4	COM-A-LONG for pulling female contact in E1012, E1016, E1018 Series
100566-1	*Mold Press Thermostat	A200020-5	COM-A-LONG for pulling male contact in E1017 and E1019 Series
A100632	Tool for removing Lektralink contacts from insulators	A200020-6	COM-A-LONG for pulling female contact in E1017 and E1019 Series
100826-3	*Mold Press Power On-Off Switch	A101208	2 oz. tube silicon grease for lubricating business end of synthetic rubber insulators

\*Mold Parts for all Mold Presses

## OTHER ACCESSORIES

Connector Series No.	Set Screw	Copper Shim	Pressure Pad	Retaining Wire
E1010 All	100012-25	A100400-1	N/A	100573-1
E1012-61 & 62	100012-7	A100400-3	100575	100573-1
E1012 Single Set-Screw	100012-18	A100400-3	N/A	100573-1
E1016 Single Set-Screw	100012-18	A100400-3	N/A	100573-1
E1018 Single Set-Screw	100012-18	A100400-3	N/A	100573-1
E1012 Double Set-Screw	100012-18	A100400-4	101214	100573-1
E1016 Double Set-Screw	100012-18	A100400-4	101214	100573-1

## INSTRUCTION BULLETINS

Connector Series No.	Cable Size	Connection Diameter	Vulcanizing Instruction Bulletin No.	Non-Molded Instruction Bulletin No.
E1012	#2-4/0	11/16	N/A	EB8 & 140
E1016	#2-4/0	11/16	EB90	EB9
E1017	350-750mcm	1-1/8	EB97	EB94
E1018	#2-4/0	11/16	EB90	EB9
E1019	350-750mcm	1-1/8	EB97	EB94



## CRIMPING NESTS AND PRESSES

Cable Size	Crimping Nests Part No.	Crimping Presses Part No.
#6-10	100514-1	A200914-1
#4-6	100514-2	A200914-2
#1-2	100514-3	A200914-3
1/0-2/0	100514-4	A200914-4
3/0	100514-5	A200914-5
4/0	100514-6	A200914-6



## E1008 SERIES

Cable Size	Color	Complete Part No.
#2-4/0	Black	E1008-8
#2-4/0	Red	E1008-93

### Dimensions:

length  $2\frac{1}{2}$  -  $3\frac{1}{2}$  16 thread,  $1\frac{1}{2}$  long,  $1\frac{1}{2}$  13 thread,  $1\frac{1}{2}$  long

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CAM-LOK®

# High-Temperature Connectors

for cable size #2-4/0, 120 V, rated up to 400 A continuous, 670 A intermittent

*Designed for those tough higher-temperature applications, the new Cam-Lok E1012 high-temperature welding connectors and receptacles are ideal for use on stud welders, arc welders, heat-treating/stress-relieving equipment, patch panels and power supplies. If your end result is lower downtime with higher efficiency, start with the safety and reliability of Cam-Lok E1012 High-Temp Connectors.*



Male and female brass contacts offer greater performance and reliability.

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- ✓ Continuous-duty temperature rating:
  - Insulator 356°F (180°C).
  - Receptacle 356°F (180°C).
- ✓ Exclusive Cam-Lok action for high conductivity.
- ✓ Easy interconnectability.
- ✓ Sleeve and pins manufactured from proprietary high-temperature material.
- ✓ Optional silver-plated contacts for reduced oxidation.
- ✓ Double set-screw termination on contacts for added strength.

## ORDERING INFORMATION

### HIGH TEMPERATURE CONNECTORS

Complete Kit Number	Double Set-Screw Contact	Insulator	Pin No.
Male E1012-88	200639-4 Brass	101037-2	100091-22
Female E1012-98	200641-10 Brass	101036-2	100091-22
Male E1012-85	200639-9 Brass (silver-plated)	101037-2	100091-22
Female E1012-95	200641-11 Brass (silver-plated)	101036-2	100091-22

### HIGH TEMPERATURE PANEL-MOUNTED RECEPTACLES

Male	E1012-508
Female	E1012-502

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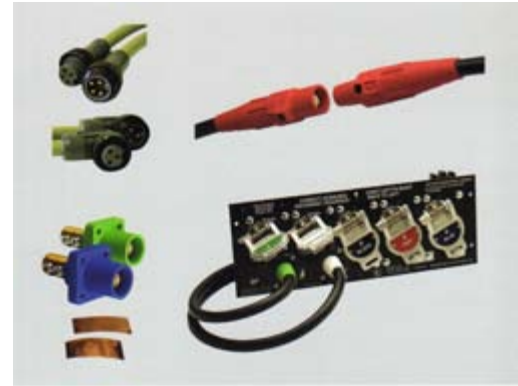
## Nuestra Historia

JOY Manufacturing	1973
Limberoller Idlers	1974
Standard Industrial Products	1976
Special Moldings & Conns.	1976
Shore Power Conns.	1982
<b>Adquisición Cooper</b>	<b>1987</b>
Electro- Move to LaGrange	1991
<b>Adquisición Cam-Lok</b>	<b>1991</b>
Welding and Entertainment Conns. Shore Power Single Pole Standard Industrial Product Special Products	
Encapsulated Transformers	1993
DeviceNet	1994
Seriplex	1996
MS Style Molded Conns.	1998
GM NACCL	2000
Industrial Ethernet	2002
L Series Quik-Loc™	2003
E2000/ NEMA 3R Covers	2003
SoftPower	2006
<b>Adquisición WPI / G&amp;H</b>	<b>2007</b>
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[www.crouse-hinds.com.mx](http://www.crouse-hinds.com.mx)

01800-2244637  
01800-CCHINDS





CROUSE-HINDS  
**Cam-Lok**<sup>®</sup>  
CONNECTORS

# Cam-Lok

Conectores para Cable Monopolar

**COOPER** Crouse-Hinds

# Conectores Cam-Lok Serie "J"



Los conectores Crouse-Hinds Cam-Lok para cable monopolar están especialmente diseñados para proporcionar lo último en servicio confiable aún bajo condiciones severas de operación.

Tanto las clavijas como los contactos están recubiertos de un material elastómero especialmente formulado para proporcionar hermeticidad al agua y seguridad. Este tipo de conectores le permiten llevar a cabo operaciones de conexión y desconexión de equipos eléctricos al instante sin necesidad del uso de herramientas.

Los conectores Cam-Lok son el estándar en la industria para la conexión y desconexión de motores eléctricos, generadores, tableros de distribución de iluminación en interiores y exteriores así como para otras aplicaciones de energía. Los conectores Crouse-Hinds Cam-Lok Serie "J" están disponibles en dos estilos: conexión en campo no vulcanizados y conexión en campo vulcanizables. Ambos cumplen con los requerimientos NEMA 3R. La Serie Power "J" ofrece una selección para tres diferentes intervalos de cable:

Series E1015 - Para cable desde #8 hasta #4, 600 V, capacidad de hasta 150 amperes continuos.

Series E1016 – Para cable desde # 2 hasta 4/0, 600 V, capacidad de hasta 400 amperes continuos.

Series E1017 – Para cable desde 350 hasta 750 MCM, 600 V, capacidad de hasta 690 amperes continuos

Con los conectores "J" Power usted obtiene:

**EXCLUSIVO SISTEMA DE ACCIONAMIENTO CAM-LOK DE ALTA CONDUCTIVIDAD.** El principio de doble leva Cam-Lok suministra una conexión positiva a prueba de vibración. Solamente se requiere 1/3 de vuelta para asegurar un contacto de alta presión de aproximadamente 600 lbs/pulg<sup>2</sup> (4137 kPa) lo que proporciona una mínima resistencia eléctrica. Este principio, ofrece la mejor conexión eléctrica y mecánica posible. Cero movimiento de las superficies de contacto, por lo que no existen arcos o quemaduras de los contactos. Los contactos son fabricados en una aleación base cobre de alta conductividad, cuidadosamente maquinada para obtener una superficie de deslizamiento suave, aún antes del enclavamiento.

**AUTOCOMPENSANTE** por desgaste. Una vez asegurados los contactos soportarán una fuerza de tensión de 1000 libras (454 kg).

**CONTACTOS PROTEGIDOS** – El recubrimiento de hule termoplástico o de neopreno, se extiende más allá de la parte final de los contactos, hembra y macho, para lograr mejores resultados de aislamiento y seguridad.

**AISLADORES CON CODIGO DE COLORES** – Todos los aisladores son moldeados con material colorfast. Sus cinco diferentes colores proporcionan una rápida y fácil identificación de las fases de conexión.

**CONTACTO A PANEL AISLADO** – Los contactos para montaje a panel permiten la rápida conexión y desconexión de cables. Disponibles en tipo macho y hembra cuentan con un aislamiento para su montaje directo a paneles de acero y así eliminar costosos tableros aislados y reducir el tiempo de ensamble. Cuentan con una espiga roscada para la conexión a zapata o con un juego de tornillos dobles para la conexión directa al cable.

**INTERCONECTIVIDAD** – Todos los conectores dentro de una misma serie tienen el mismo diámetro de conexión permitiéndole conectar cables pequeños hasta más grandes. Por ejemplo, en las Series E1016 puede conectar un cable calibre #2 hasta un cable 4/0 sin necesidad de un adaptador.

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Serie	Diámetros de Conexión	Intervalo de Cable
E1015	3/8"	#8 – #4
E1016	11/16"	#2 – 4/0
E1017	1 1/8"	350-750 MCM



## Cumplimiento NEC 1999.

Los conectores Cam-Lok de Crouse-Hinds están diseñados para satisfacer los requerimientos del NEC 1999 para conectores listados que sean definidos como del tipo enclavamiento (locking type).

Los conectores Cam-Lok Series "J" Power proporcionan los medios para conexión y desconexión rápida y segura de sistemas de alimentación de energía para conciertos musicales, parques recreativos y temáticos, así como también para la conexión de generadores, subestaciones de energía auxiliar y probadores de carga en hospitales, instalaciones para la prestación de servicios y para la industria pesada. Son Listados UL y Certificados CSA.

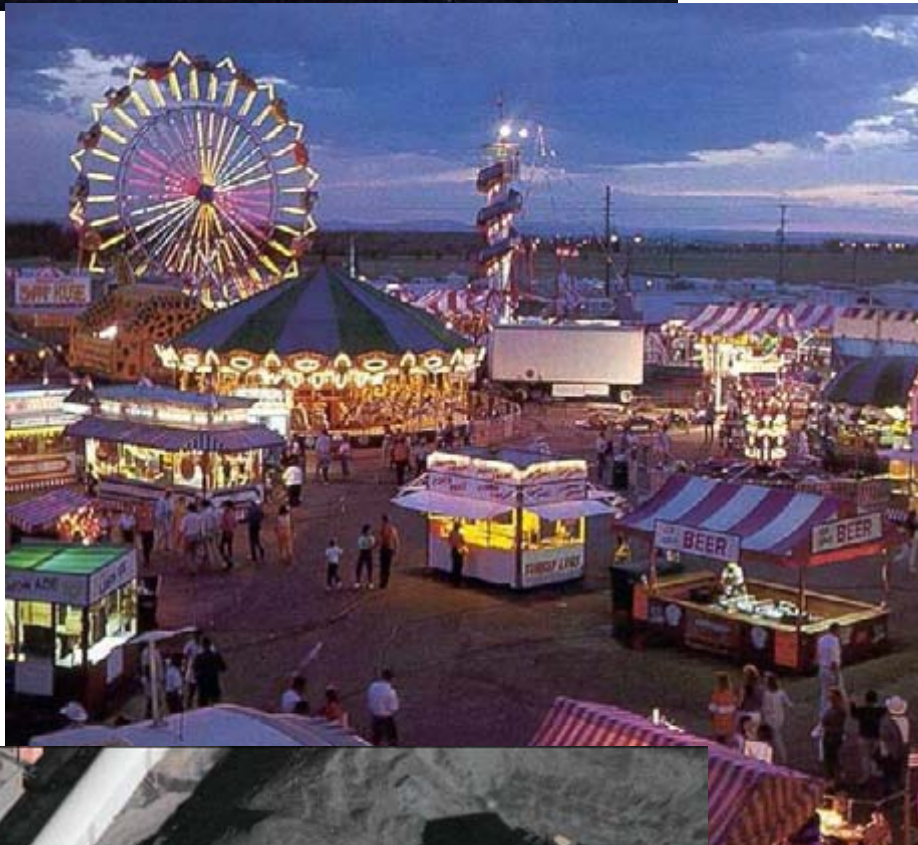
Los Conectores Cam-Lok Series "J" de Crouse-Hinds son listados UL para una clasificación NEMA 3R. Los conectores vulcanizables tienen Clasificación NEMA 4.



Distribución Eléctrica



Ferias



Entretenimiento

Todas las Series Cam-Lok "J" Power son listados UL con NEMA 3R cuando son utilizadas con conectores listados y originales Cam-Lok.

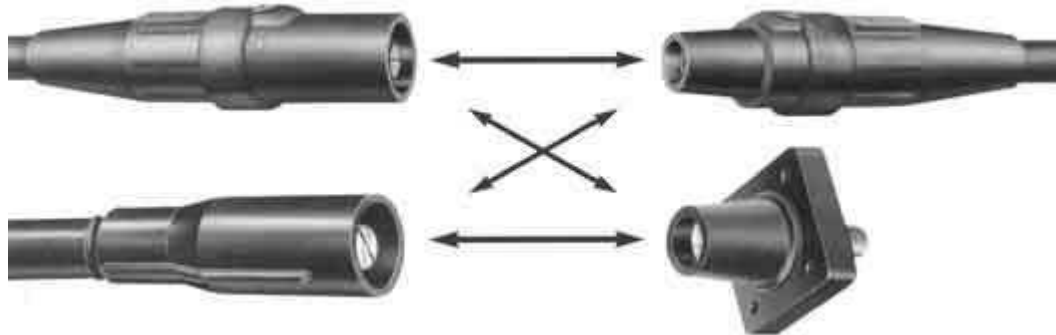


Construcción / Industria / Minería

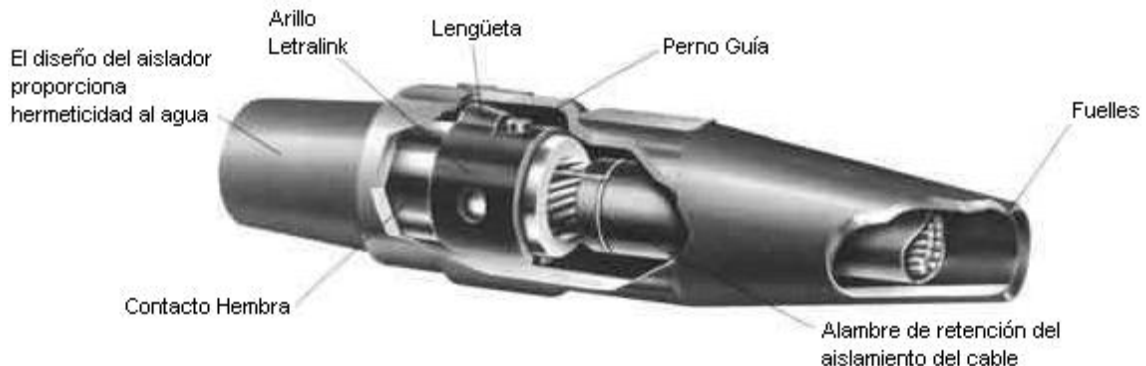
# Estilos de Ensamble en Campo

## Existen Dos estilos: clavijas vulcanizables y no vulcanizables

Todas las clavijas no vulcanizables, vulcanizables y los contactos de las mismas series son interconectables



## NO VULCANIZABLES



**ENSAMBLE FACIL Y SEGURO** – Las clavijas Power Series E1016 no vulcanizables de Crouse-Hinds cuentan con la característica exclusiva del principio\* Lektralink™. Este diseño permite el ensamble a los cables en cuestión de segundos sin vulcanizar y además sin tornillos prisioneros o pernos expuestos.

El arillo de ajuste es moldeado de manera permanente dentro del aislador (Ver la ilustración anterior). Este arillo, construido de un material de alta resistencia, no provoca calentamiento por inducción. En el momento en que el contacto es introducido en el aislador, el perno guía es capturado por el arillo, asegurando de esta manera al contacto en una posición inamovible. Es simplemente todo lo que hay que hacer

**FACIL DESENSAMBLE** – Esta maniobra es igualmente sencilla. Inserte un destornillador de 3/16" de ancho entre el contacto y el aislador, levante la lengüeta del arillo y jale el contacto del aislador. Consulte las hojas de instrucciones #EB9 incluidas en cada caja.

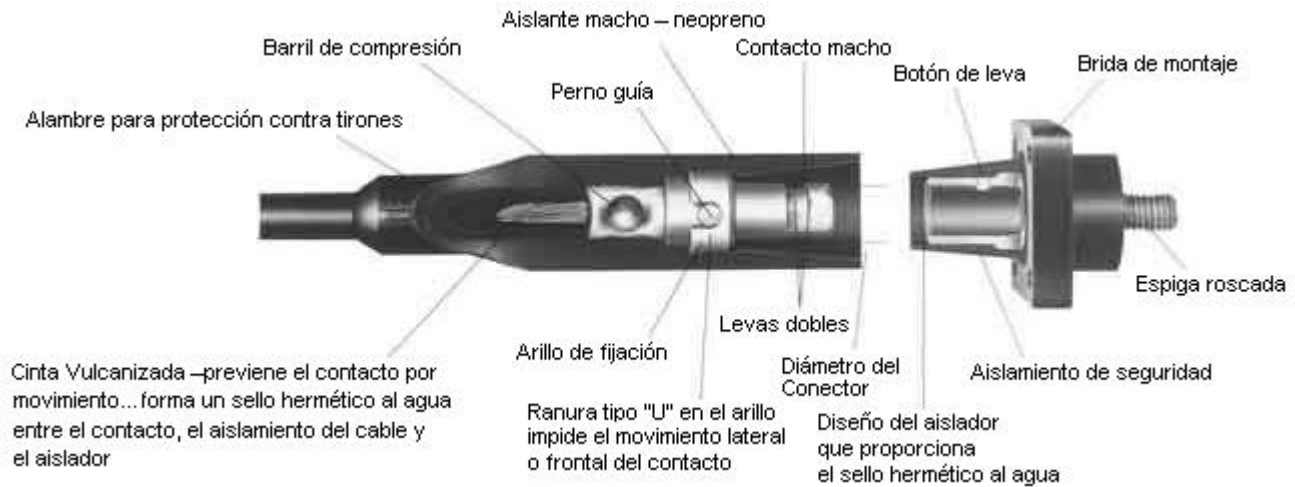
**MENOR TIEMPO MUERTO, MAYOR CONFIABILIDAD** – El sistema de Crouse-Hinds de protección contra tirones distribuye la flexión sobre una amplia área. El alambre de retención evita que el aislamiento del cable sea jalado exponiendo alambres desnudos peligrosos.

El material del aislador está especialmente formulado para proporcionar mayor resistencia al calor, al ambiente, al ozono y la abrasión.

\*La característica de las Series E1015 es la sujeción mediante la fricción. La característica de las Series E1017 es la sujeción por compresión.



## VULCANIZABLES



## Vulcanizar tiene muchas ventajas

Cinco pasos sencillos le permiten tener Clavijas Moldeadas al Cable

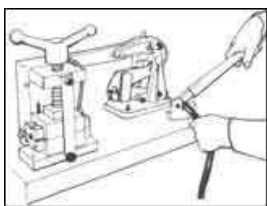
**SELLADO A PRUEBA DE AGUA** – Impide la corrosión, congelamiento de los conectores o la corrosión interna de los hilos de los cables.

**REDUCE LA RUPTURA DEL CABLE** – La vulcanización distribuye la flexión en un área amplia para proporcionar un sistema de protección efectivo contra los tirones.

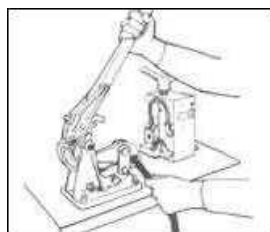
**SEGURIDAD** – Minimiza corto circuitos y riesgos de choques eléctricos. El aislador de la clavija se encuentra permanentemente vulcanizado al cable para que el aislamiento del cable no pueda ser sacado de la conexión exponiendo así el cable desnudo. Puede ser utilizada en intemperie en todo tipo de climas. Aun rodeador por agua, los conductores permanecen secos y seguros.

**RESISTENCIA A LA FRAGILIZACIÓN** – Los aislantes no se fragilizan o agrietan además de ser resistentes a aceite, gasolina, etc. Las conexiones soportarán impactos por camiones o placas pesadas sin sufrir daño.

**EL PROCESO DE VULCANIZACION TOMA SOLO 7 MINUTOS...**La prensa Portátil de Vulcanizado de Crouse-Hinds es capaz de producir virtualmente conectores de cable indestructibles en sus propias instalaciones o en campo. Únicamente necesita 4 económicos accesorios para vulcanizar un par de conectores.



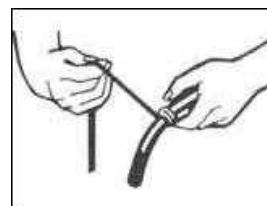
1 CORTE EL CABLE, desnúdelo. Inserte el alambre desnudo en el tubo de compresión del contacto.



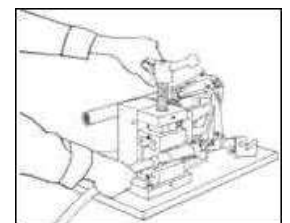
2 COMPRIMA el contacto al cable



3 ENVUELVA EL TUBO DE COMPRESIÓN y el cable con cinta para vulcanizar. Jale este ensamble dentro del aislador utilizando la herramienta COM-A-LONG.



4 ENVUELVA EL EMPALME CON CINTA PARA VULCANIZAR, sellando el aislador al aislamiento del cable



5 LLEVE A CABO EL MOLDEO. (los 5 pasos toman 7 minutos)...repita el proceso con la otra mitad del conector. Consulte el instructivo EB #90 para mayor información

# Serie E1015

Conectores y Accesorios para cable #8-#4,  
600 V, hasta 150 amperes continuos

## NO VULCANIZABLE

Color Cable

## CONECTOR MACHO

Completo No. De Parte Contacto Aislador

## CONECTOR HEMBRA

Completo No. De Parte Contacto Aislador



NEGRO  
ROJO  
VERDE  
BLANCO  
AZUL

#8-#4

E1015-8306  
E1015-8308  
E1015-8310  
E1015-8311  
E1015-8313

A100864-1

A1000869-7  
A1000869-9  
A1000869-11  
A1000869-12  
A1000869-14

E1015-8331  
E1015-8333  
E1015-8335  
E1015-8336  
E1015-8338

A100865-1

A1000868-7  
A1000868-9  
A1000868-11  
A1000868-12  
A1000868-14

## VULCANIZABLE

Color Cable

## CONECTOR MACHO

Completo No. De Parte Contacto Aislador

## CONECTOR HEMBRA

Completo No. De Parte Contacto Aislador



NEGRO  
ROJO  
VERDE  
BLANCO  
AZUL

#8-#4

E1015-1  
E1015-3  
E1015-5  
E1015-6  
E1015-19

A100087-1

A100092-1  
A100092-3  
A100092-5  
A100092-6  
A100092-7

E1015-50  
E1015-52  
E1015-54  
E1015-55  
E1015-47

A100088-1

A100093-1  
A100093-3  
A100093-5  
A100093-6  
A100093-14

Color Cable

## CONECTOR MACHO

No. De Parte Completo

## CONECTOR HEMBRA

No. De Parte Completo



NEGRO  
ROJO  
VERDE  
BLANCO  
AZUL

#8-#4

E1015-1600  
E1015-1602  
E1015-1604  
E1015-1605  
E1015-1606

E1015-1625  
E1015-1627  
E1015-1629  
E1015-1630  
E1015-1631

Color Cable

## CONECTOR DE TERMINAL HEMBRA

Estilo Angular No. De Parte Completo

Estilo Recto No. De Parte Completo



NEGRO  
ROJO  
VERDE  
BLANCO  
AZUL

#8-#4

E1015-575  
E1015-577  
E1015-579  
E1015-580  
E1015-581

E1015-625  
E1015-627  
E1015-629  
E1015-630  
E1015-631

## CONECTORES "T" TRES VÍAS

Color

Paralelo T No. De Parte

Abocardado T No. De Parte

Doble Hembra No. De Parte



NEGRO  
ROJO  
VERDE  
BLANCO  
AZUL

E1015-2324  
E1015-2326  
E1015-2328  
E1015-2329  
E1015-2348

E1015-2312  
E1015-2314  
E1015-2316  
E1015-2317  
E1015-2350

E1015-2352  
E1015-2354  
E1015-2356  
E1015-2357  
E1015-2358

## TAPAS DE PROTECCIÓN

Paralelo T No. De Parte

Descripción



NEGRO  
NEGRO

A100793-1  
A100792-1

TAPA PARA MACHO  
TAPA PARA HEMBRA



<b>NO VULCANIZABLE</b>			<b>CONECTOR MACHO</b>			<b>CONECTOR HEMBRA</b>			
Color	Cable		Completo	No. De Parte Contacto	Aislador	Completo	No. De Parte Contacto	Aislador	
NEGRO ROJO VERDE BLANCO AZUL	#2-#1		E1016-8006 E1016-8008 E1016-8010 E1016-8011 E1016-7700	A200036-18	A200074-19 A200074-21 A200074-23 A200074-24 A200074-38	E1016-8056 E1016-8058 E1016-8060 E1016-8061 E1016-7716	A200037-23	A200075-19 A200075-21 A200075-23 A200075-24 A200075-44	
NEGRO ROJO VERDE BLANCO AZUL	1/0-2/0		E1016-8012 E1016-8014 E1016-8016 E1016-8017 E1016-7702	A200036-19	A200074-19 A200074-21 A200074-23 A200074-24 A200074-38	E1016-8062 E1016-8064 E1016-8066 E1016-8067 E1016-7718	A200037-24	A200075-19 A200075-21 A200075-23 A200075-24 A200075-44	
<b>COMPRESIÓN</b>	1/0-2/0		E1016-8018 E1016-8020 E1016-8022 E1016-8023 E1016-7704	A200038-11	A200074-13 A200074-15 A200074-17 A200074-18 A200074-37	E1016-8068 E1016-8070 E1016-8072 E1016-8073 E1016-7720	A200035-17	A200075-13 A200075-15 A200075-17 A200075-19 A200075-37	
	USO RUDO								
	3/0-4/0		E1016-8030 E1016-8032 E1016-8034 E1016-8035 E1016-7708	A200038-6	A200074-13 A200074-15 A200074-17 A200074-18 A200074-37	E1016-8080 E1016-8082 E1016-8084 E1016-8085 E1016-7724	A200035-14	A200075-13 A200075-15 A200075-17 A200075-19 A200075-37	
	NEGRO ROJO VERDE BLANCO AZUL	#2-2/0		E1016-8300 E1016-8302 E1016-8304 E1016-8305 E1016-8818	A200065-1	A200074-19 A200074-21 A200074-23 A200074-24 A200074-38	E1016-8325 E1016-8327 E1016-8329 E1016-8330 E1016-8820	A200067-3	A200075-19 A200075-21 A200075-23 A200075-24 A200075-44
	NEGRO ROJO VERDE BLANCO AZUL	2/0-4/0		E1016-8312 E1016-8314 E1016-8316 E1016-8317 E1016-8819	A200064-1	A200074-13 A200074-15 A200074-17 A200074-18 A200074-37	E1016-8337 E1016-8339 E1016-8341 E1016-8342 E1016-8821	A200090-1	A200075-13 A200075-15 A200075-17 A200075-19 A200075-37
<b>JUEGO DE UN TORNILLO</b>	#2-2/0		E1016-8350 E1016-8352 E1016-8354 E1016-8355 E1016-8356	A200630-1	A200074-19 A200074-21 A200074-23 A200074-24 A200074-38	E1016-8375 E1016-8377 E1016-8379 E1016-8380 E1016-8381	A200640-3	A200075-19 A200075-21 A200075-23 A200075-24 A200075-44	
	NEGRO ROJO VERDE BLANCO AZUL	2/0-4/0		E1016-8362 E1016-8364 E1016-8366 E1016-8367 E1016-8368	A200639-1	A200074-60 A200074-62 A200074-64 A200074-65 A200074-66	E1016-8387 E1016-8389 E1016-8391 E1016-8392 E1016-8393	A200641-1	A200075-60 A200075-62 A200075-64 A200075-65 A200075-66



<b>VULCANIZABLE</b>			<b>CONECTOR MACHO</b>			<b>CONECTOR HEMBRA</b>			
Color	Cable		Completo	No. De Parte Contacto	Aislador	Completo	No. De Parte Contacto	Aislador	
NEGRO ROJO VERDE BLANCO AZUL	#2-#1		E1016-7 E1016-9 E1016-11 E1016-12 E1016-46	A200036-2	A200706-7 A200706-9 A200706-11 A200706-12 A200706-97	E1016-56 E1016-58 E1016-60 E1016-61 E1016-95	A200037-2	A200705-7 A200705-9 A200705-11 A200705-12 A200705-64	
<b>COMPRESIÓN</b>	1/0-2/0		E1016-13 E1016-15 E1016-17 E1016-18 E1016-43	A200036-3	A200706-7 A200706-9 A200706-11 A200706-12 A200706-97	E1016-62 E1016-64 E1016-66 E1016-67 E1016-92	A200037-3	A200705-7 A200705-9 A200705-11 A200705-12 A200705-64	
	NEGRO ROJO VERDE BLANCO AZUL	3/0-4/0		E1016-31 E1016-33 E1016-35 E1016-36 E1016-45	A200038-2	A200706-13 A200706-15 A200706-17 A200706-18 A200706-64	E1016-80 E1016-82 E1016-84 E1016-85 E1016-94	A200035-2	A200705-13 A200705-15 A200705-17 A200705-18 A200705-65



\* **NOTA:** Los conectores macho y hembra de doble tornillo están listados CSA y UL para 400 A cuando se utiliza con un cable #4/0, 90°C. Los conectores macho y hembra de compresión y de un solo tornillo están listados para 315 A.

# Serie E1016

Conectores y Accesorios para cable #2-4/0,  
600 V, hasta 400 amperes continuos\*

Color	Cable
ANGULAR	#8-#4
RECTANGULAR	
RECTO	
REDONDO	
NEGRO	
ROJO	
VERDE	
BLANCO	
AZUL	

CONECTOR TERMINAL HEMBRA	
Anular	Recto
E1016-575	E1016-625
----	----
----	----
----	----
----	----

CONECTOR DE SEGURIDAD HEMBRA	
Redondo	Rectangular
E1016-813	E1016-801
E1016-815	E1016-803
E1016-817	E1016-805
E1016-818	E1016-806
E1016-819	E1016-807

## CONTACTOS AISLADOS



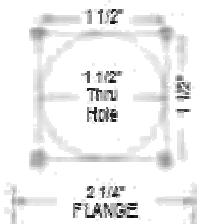
**MACHO ESTILO DOBLE TORNILLO**

Tamaño de Varilla 1/2"-13



**HEMBRA ESTILO VARILLA ROSCADA**

Dist. Holes 7/32" Dia.



**VARILLA ROSCADA**

Color: NEGRO, ROJO, VERDE, BLANCO, AZUL  
Cable: #2-4/0

Macho Catálogo

Hembra Catálogo

E1016-1600, E1016-1602, E1016-1604, E1016-1605, E1016-1612

**DOBLE TORNILLO**

Color: NEGRO, ROJO, VERDE, BLANCO, AZUL  
Cable: #2-4/0

E1016-1700, E1016-1702, E1016-1704, E1016-1705, E1016-1706

## CONECTORES "T" TRES VÍAS

Color	Paralelo T No. De Parte	Abocardado T No. De Parte	Doble Hembra No. De Parte
-------	-------------------------	---------------------------	---------------------------



**PARALELO "T"**

(MACHO-MACHO-HEMBRA)



**ABOARDADO "T"**

(MACHO-HEMBRA-HEMBRA)



**DOBLE HEMBRA**

NEGRO	E1016-2324	E1016-2312	E1016-2352
ROJO	E1016-2326	E1016-2314	E1016-2354
VERDE	E1016-2328	E1016-2316	E1016-2356
BLANCO	E1016-2329	E1016-2317	E1016-2357
AZUL	E1016-2348	E1016-2350	E1016-2358

## TAPAS DE PROTECCIÓN



**TAPA MACHO**



**TAPA HEMBRA**



**TAPATRASERA CUBIERTA METÁLICA**

Color	No. De Parte	Descripción
NEGRO	A100681-1	TAPA PARA MACHO
NEGRO	A100682-1	TAPA PARA HEMBRA
METÁLICA PLATEADA	A100895-1	TAPA PARA HEMBRA

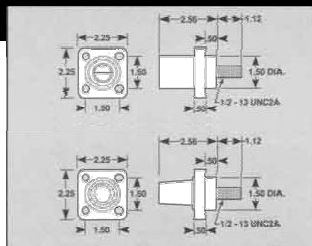
## MONTAJE A PANEL / VARILLA ROSCADA



**MACHO**



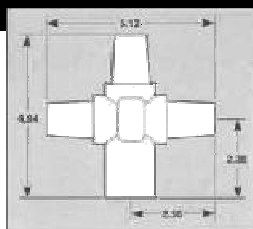
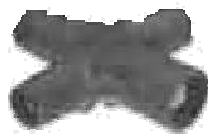
**HEMBRA**



Color	Cable	No. De Parte	No. de Parte
NEGRO	#2-4/0	E1016-1600S	E1016-1631S
AMARILLO		E1016-1601S	E1016-1632S
ROJO		E1016-1602S	E1016-1633S
NARANJA		E1016-1603S	E1016-1634S
VERDE		E1016-1604S	E1016-1635S
BLANCO		E1016-1605S	E1016-1636S
AZUL		E1016-1612S	E1016-1643S
CAFÉ		E1016-1619S	E1016-1687S

## DERIVADOR T - THREE-FER

Color	No. de Parte
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NEGRO	E1016-9500
AMARILLO	E1016-9501
ROJO	E1016-9502
NARANJA	E1016-9503
VERDE	E1016-9504
BLANCO	E1016-9505
AZUL	E1016-9506

\* Todos los conectores y receptáculos mostrados abajo son Listados para 400 A.



# Cam-Lok® Connectors THREE-FER



Conectores Crouse-Hinds® Cam-Lok introduce el nuevo y mejorado conector "T" Serie "J" Power THREE-FER.

Los machos han sido extendidos para facilitar el ensamble con los productos de la Serie E1016 Cam-Lok "J" Power y cajas de distribución.

Ahora disponible con una versión de cable moldeado al conector.

Color	MACHO-H-H-H* No. De Parte	HEMBRA-M-M-M* No. De Parte	CABLE MOLDEADO A THREE FER No. de Parte	Descripción
<b>NEGRO</b>	E1016-9510	E1016-9580	E1016-9529	Negro H-H-H a cable 2/0 de 90 cm (3 pies).
<b>AMARILLO</b>	E1016-9511	E1016-9590		
<b>ROJO</b>	E1016-9512	E1016-9600		
<b>NARANJA</b>	E1016-9513	E1016-9610		
<b>VERDE</b>	E1016-9514	E1016-9620	E1016-9530	
<b>BLANCO</b>	E1016-9515	E1016-9630		Negro H-H-H a cable 4/0 de 90 cm (3 pies).
<b>AZUL</b>	E1016-9516	E1016-9640		
<b>CAFÉ</b>	E1016-9517	E1016-9650		

\*H= HEMBRA

M = MACHO

## Adaptador Male-to-Male

Conectores Crouse-Hinds® Cam-Lok introduce el Nuevo y mejorado Conector Macho-Macho Serie "J" Power.

El adaptador especialmente diseñado que tiene la flexibilidad para sus aplicaciones de distribución de energía.

Este producto permite conexiones en línea entre dos conectores hembras Cam-Lok E1016.

Color	No. De Parte
<b>NEGRO</b>	E1016-2382
<b>AMARILLO</b>	E1016-2383
<b>ROJO</b>	E1016-2384
<b>NARANJA</b>	E1016-2385
<b>VERDE</b>	E1016-2386
<b>BLANCO</b>	E1016-2387
<b>AZUL</b>	E1016-2388
<b>CAFÉ</b>	E1016-2389



# Cam-Lok®

CROUSE-HINDS® MOLDED PRODUCTS

## Tapas para E1015 y E1016

Conectores Crouse-Hinds® Cam-Lok introduce las tapas de sobreponer para los contactos montados a panel de las Series E1015 y E1016.

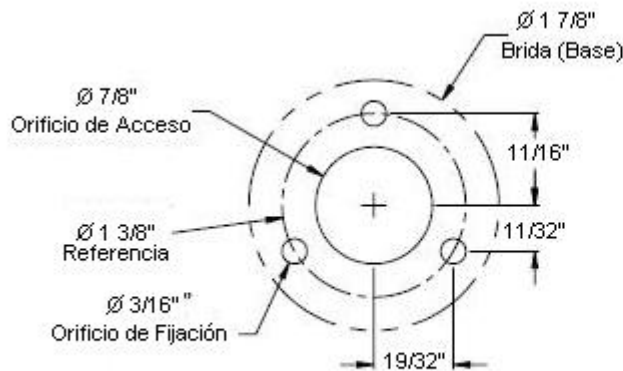
Las tapas tiene clasificación NEMA 3R por lo que pueden ser utilizadas para uso exterior

### ESPECIFICACIONES:

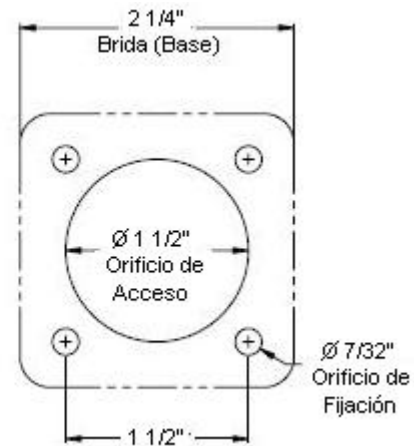
- NEMA 3R – Sellado para exteriores
- Toda la tornillería y herrajes son de acero inoxidable.
- Resistente al alto impacto.
- Tapas y cuerpos de material termoplástico.
- Muchos colores para escoger.



Color	Serie E1015 No. De Parte	Serie E1016 No. de Parte
NEGRO	E1015SC-32	E1016SC-32
ROJO	E1015SC-36	E1016SC-36
VERDE	E1015SC-35	E1016SC-35
BLANCO	E1015SC-38	E1016SC-38
AZUL	E1015SC-34	E1016SC-34
AMARILLO	E1015SC-37	E1016SC-37
NARANJA	E1015SC-39	E1016SC-39
CAFÉ	E1015SC-31	E1016SC-31
GRIS	E1015SC-33	E1016SC-33



TAPA PARA CONTACTO E1015



TAPA PARA CONTACTO E1016

Espesor máximo de lámina del panel 3/16" [4.75mm]





Tamaño de la cabeza del tornillo de sujeción:

- E1016 #10, Diámetro máximo de la cabeza del tornillo: 0.390"
- E1015 #8, Diámetro máximo de la cabeza del tornillo: 0.320"

# Serie E1017

Conectores y Accesorios para cable 350-750MCM  
600 V, hasta 690 amperes continuos\*

**COOPER** Crouse-Hinds

NO VULCANIZABLE			CONECTOR MACHO			CONECTOR HEMBRA			
	Color	Cable	Completo	No. De Parte Contacto	Aislador	Completo	No. De Parte Contacto	Aislador	
JUEGO DE DOBLE TORNILLO	NEGRO	350-500MCM	E1017-350	A200612-1	A200056-1	E1017-375	A200614-2	A200040-1	 <b>MACHO</b>
	ROJO		E1017-352		A200056-3	E1017-377		A200040-3	
	VERDE		E1017-354		A200056-5	E1017-379		A200040-5	
	BLANCO		E1017-355		A200056-6	E1017-380		A200040-6	
	AZUL		E1017-356		A200056-7	E1017-381		A200040-9	
								 <b>HEMBRA</b>	
VULCANIZABLE			CONECTOR MACHO			CONECTOR HEMBRA			
	Color	Cable	Completo	No. De Parte Contacto	Aislador	Completo	No. De Parte Contacto	Aislador	
COMPRESIÓN	NEGRO	350MCM	E1017-1	A200028-1	A200056-1	E1017-50	A200027-5	A200040-1	 <b>MACHO</b>
	ROJO		E1017-3		A200056-3	E1017-52		A200040-3	
	VERDE		E1017-5		A200056-5	E1017-54		A200040-5	
	BLANCO		E1017-6		A200056-6	E1017-55		A200040-6	
	AZUL		E1017-26		A200056-7	E1017-74		A200040-39	
	NEGRO	500MCM	E1017-7	A200028-2	A200056-1	E1017-56	A200027-6	A200040-1	 <b>HEMBRA</b>
	ROJO		E1017-9		A200056-3	E1017-58		A200040-3	
	VERDE		E1017-11		A200056-5	E1017-60		A200040-5	
	BLANCO		E1017-12		A200056-6	E1017-61		A200040-6	
	AZUL		E1017-27		A200056-7	E1017-75		A200040-39	
	NEGRO	750MCM	E1017-13	A200028-3	A200056-7	E1017-62	A200027-7	A200040-7	
	ROJO		E1017-15		A200056-9	E1017-64		A200040-9	
	VERDE		E1017-17		A200056-11	E1017-66		A200040-11	
	BLANCO		E1017-18		A200056-12	E1017-67		A200040-12	
	AZUL		E1017-28		A200056-41	E1017-76		A200040-40	

## CONECTORES TERMINALES HEMBRA


Color	Cable	No. de Parte	Descripción
NEGRO	350-750MCM	E1017-575	ANGULAR
NEGRO	350-750MCM	E1017-625	RECTO



**ESTILO ANGULAR**

**ESTILO RECTO**

Barreno DE 5/8"

CONTACTOS		MACHO		HEMBRA			
Color	Cable	90° No. De Parte	30° No. De Parte	90° No. de Parte	30° No. de Parte		
NEGRO	350-750MCM	E1017-1600	E1017-1601	E1017-1625	E1017-1626	 <b>MACHO 90°</b>	 <b>HEMBRA 30°</b>
ROJO		E1017-1604	E1017-1605	E1017-1629	E1017-1630		
VERDE		E1017-1608	E1017-1609	E1017-1633	E1017-1634		
BLANCO		E1017-1610	E1017-1611	E1017-1635	E1017-1636		
AZUL		E1017-1612	E1017-1613	E1017-1637	E1017-1638		

Perno roscado de 1/2" x 13

## TAPAS PROTECTORAS

Color	No. de Parte	Descripción
NEGRO	A100603-1	TAPA PARA MACHO
NEGRO	A100604-1	TAPA PARA HEMBRA



**MACHO**



**HEMBRA**



# Conectores Cam-Lok® Serie "E-Z"

CROUSE-HINDS  
**Cam-Lok**<sup>®</sup>  
CONNECTORS

Conectores **Crouse-Hinds® Cam-Lok**, creador del sistema de Contacto Cam-Lok, introduce la nueva Serie de conectores **E-Z1016** y **E-Z1018 "J"**. La serie E-Z ha sido desarrollada para proporcionar un rápido y sencillo ensamble y desensamble. La Serie E-Z es intercambiable con Conectores existentes de la Serie E1016 y E1018, asimismo utiliza los mismos Contactos del E1016 y del E1018.

La construcción para uso rudo, característica de la nueva serie E-Z, incorpora materiales de alta tecnología y calidad para asegurarlo libre de problemas y ofrecer un servicio confiable del cual se pueda depender como todos los productos Cam-Lok. Los conectores Cam-Lok son Listados únicamente cuando se utilizan con Conectores Cam-Lok genuinos Crouse-Hinds.

## CARACTERÍSTICAS:

- Reúne la normatividad del National Electrical Code® 1999, para conectores del tipo enclavamiento (locking-type)
- Diseñado para alojar un amplio intervalo de tamaños de cable y capacidad de corriente.
  - Las mangas de aislamiento de alta Resistencia dieléctrica proporcionan largos plazos de servicio de duración y máxima seguridad.
  - Las mangas mejoradas con código de color para la identificación de fases E-Z.
    - Ensamble E-Z con un destornillador normal.
    - Desensamble E-Z para reparación en campo o su reuso.
    - La original acción Cam-Lok action para una alta conductividad.
    - Utiliza contactos E1016 ó E1018 estándar.

**El robusto arillo de ajuste fabricado en fibra de vidrio reforzado de alta tecnología es tan fuerte como cualquier metal. El nuevo diseño rodea todo el contacto para una mejor resistencia.**

**El Perno Guía rediseñado incrementa la resistencia al torque y longitudinal en 300%. El Perno Guía se alinea fácilmente y localiza la muesca en el arillo. No hay barrenos en el contacto que alinear.**

**El tornillo de retención no metálico fabricado en fibra de vidrio reforzado de alta tecnología proporciona una mejor resistencia y duración.**

**Tornillos cautivos dentro de la manga de aislamiento para prevenir su pérdida.**

## ESPECIFICACIONES TÉCNICAS:

Listado UL y Certificado CSA

E-Z1016: NEMA 3R y 4

E-Z1018: NEMA 3R

Voltaje: 600 V máximo

Corriente: 400 Amp máximo

Compuesto Base: TPE (Santoprene) 105°C

Material del Contacto: Aleación de Cobre ASTM B16

CROUSE-HINDS® MOLDED PRODUCTS

# Cam-Lok® Connectors

## E-Z1016™ SERIES



	Corriente Ampere	Color	Cable	CONECTOR MACHO			CONECTOR HEMBRA		
				Completo	No. De Parte Contacto	Aislador	Completo	No. De Parte Contacto	Aislador
COMPRESIÓN	190	NEGRO	#2-#1	E-Z1016-8006	A200036-18	E-Z200074-19	E-Z1016-8056	A200037-23	E-Z200075-19
		ROJO		E-Z1016-8008	A200036-18	E-Z200074-21	E-Z1016-8058	A200037-23	E-Z200075-21
		VERDE		E-Z1016-8010	A200036-18	E-Z200074-23	E-Z1016-8060	A200037-23	E-Z200075-23
		BLANCO		E-Z1016-8011	A200036-18	E-Z200074-24	E-Z1016-8061	A200037-23	E-Z200075-24
		AZUL		E-Z1016-7700	A200036-18	E-Z200074-38	E-Z1016-7716	A200037-23	E-Z200075-44
	300	NEGRO	1/0-2/0	E-Z1016-8018	A200038-11	E-Z200074-60	E-Z1016-8068	A200035-17	E-Z200075-60
		ROJO		E-Z1016-8020	A200038-11	E-Z200074-62	E-Z1016-8070	A200035-17	E-Z200075-62
		VERDE		E-Z1016-8022	A200038-11	E-Z200074-64	E-Z1016-8072	A200035-17	E-Z200075-64
		BLANCO		E-Z1016-8023	A200038-11	E-Z200074-65	E-Z1016-8073	A200035-17	E-Z200075-65
		AZUL		E-Z1016-7704	A200038-11	E-Z200074-66	E-Z1016-7720	A200035-17	E-Z200075-66
	400	NEGRO	3/0-4/0	E-Z1016-8030	A200038-6	E-Z200074-60	E-Z1016-8080	A200035-14	E-Z200075-60
		ROJO		E-Z1016-8032	A200038-6	E-Z200074-62	E-Z1016-8082	A200035-14	E-Z200075-62
VERDE		E-Z1016-8034		A200038-6	E-Z200074-64	E-Z1016-8084	A200035-14	E-Z200075-64	
BLANCO		E-Z1016-8035		A200038-6	E-Z200074-65	E-Z1016-8085	A200035-14	E-Z200075-65	
AZUL		E-Z1016-7708		A200038-6	E-Z200074-66	E-Z1016-7724	A200035-14	E-Z200075-66	
JUEGO DE DOBLE TORNILLO	300	NEGRO	#2-2/0	E-Z1016-8350	A200630-1	E-Z200074-19	E-Z1016-8375	A200640-3	E-Z200075-19
		ROJO		E-Z1016-8352	A200630-1	E-Z200074-21	E-Z1016-8377	A200640-3	E-Z200075-21
		VERDE		E-Z1016-8354	A200630-1	E-Z200074-23	E-Z1016-8379	A200640-3	E-Z200075-23
		BLANCO		E-Z1016-8355	A200630-1	E-Z200074-24	E-Z1016-8380	A200640-3	E-Z200075-24
		AZUL		E-Z1016-8356	A200630-1	E-Z200074-38	E-Z1016-8381	A200640-3	E-Z200075-44
	400	NEGRO	2/0-4/0	E-Z1016-8362	A200639-1	E-Z200074-60	E-Z1016-8387	A200641-1	E-Z200075-60
		ROJO		E-Z1016-8364	A200639-1	E-Z200074-62	E-Z1016-8389	A200641-1	E-Z200075-62
		VERDE		E-Z1016-8366	A200639-1	E-Z200074-64	E-Z1016-8391	A200641-1	E-Z200075-64
		BLANCO		E-Z1016-8367	A200639-1	E-Z200074-65	E-Z1016-8392	A200641-1	E-Z200075-65
		AZUL		E-Z1016-8368	A200639-1	E-Z200074-66	E-Z1016-8393	A200641-1	E-Z200075-66

### ESPECIFICACIONES TÉCNICAS:

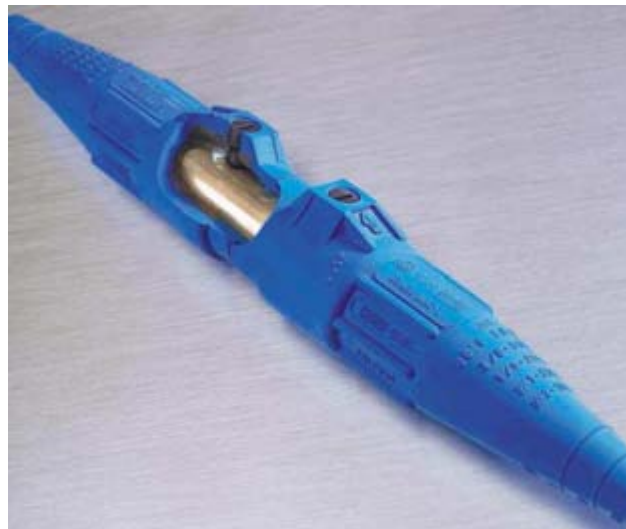
Listado UL y Certificado CSA  
NEMA 3R y 4  
Voltaje: 600 V máximo  
Corriente: 400 Amp máximo  
Compuesto Base: TPE (Santoprene) 105°C  
Material del Contacto: Aleación de Cobre ASTM B16



## Cam-Lok® Connectors

CROUSE-HINDS® MOLDED PRODUCTS

### E-Z1018™ SERIES



	Color	Cable	CONECTOR MACHO			CONECTOR HEMBRA		
			Completo	No. De Parte Contacto	Aislador	Completo	No. De Parte Contacto	Aislador
JUEGO DE UN TORNILLO	NEGRO	#2-2/0	E-Z1018-8300	A200065-1	E-Z200071-19	E-Z1018-8325	A200067-4	E-Z200072-19
	ROJO		E-Z1018-8302	A200065-1	E-Z200071-21	E-Z1018-8327	A200067-4	E-Z200072-21
	VERDE		E-Z1018-8304	A200065-1	E-Z200071-23	E-Z1018-8329	A200067-4	E-Z200072-23
	BLANCO		E-Z1018-8305	A200065-1	E-Z200071-24	E-Z1018-8330	A200067-4	E-Z200072-24
	AZUL		E-Z1018-8306	A200065-1	E-Z200071-37	E-Z1018-8331	A200067-4	E-Z200072-37
	NEGRO	#2/0-4/0	E-Z1018-8312	A200064-1	E-Z200071-13	E-Z1018-8337	A200090-2	E-Z200072-13
	ROJO		E-Z1018-8314	A200064-1	E-Z200071-15	E-Z1018-8339	A200090-2	E-Z200072-15
	VERDE		E-Z1018-8316	A200064-1	E-Z200071-17	E-Z1018-8341	A200090-2	E-Z200072-17
	BLANCO		E-Z1018-8317	A200064-1	E-Z200071-18	E-Z1018-8342	A200090-2	E-Z200072-18
	AZUL		E-Z1018-8318	A200064-1	E-Z200071-38	E-Z1018-8343	A200090-2	E-Z200072-38
JUEGO DE DOBLE TORNILLO	NEGRO	#2-2/0	E-Z1018-8350	A200630-1	E-Z200071-19	E-Z1018-8375	A200640-4	E-Z200072-19
	ROJO		E-Z1018-8352	A200630-1	E-Z200071-21	E-Z1018-8377	A200640-4	E-Z200072-21
	VERDE		E-Z1018-8354	A200630-1	E-Z200071-23	E-Z1018-8379	A200640-4	E-Z200072-23
	BLANCO		E-Z1018-8355	A200630-1	E-Z200071-24	E-Z1018-8380	A200640-4	E-Z200072-24
	AZUL		E-Z1018-8356	A200630-1	E-Z200071-37	E-Z1018-8381	A200640-4	E-Z200072-37
	NEGRO	#2/0-4/0	E-Z1018-8362	A200639-1	E-Z200071-13	E-Z1018-8387	A200641-2	E-Z200072-13
	ROJO		E-Z1018-8364	A200639-1	E-Z200071-15	E-Z1018-8389	A200641-2	E-Z200072-15
	VERDE		E-Z1018-8366	A200639-1	E-Z200071-17	E-Z1018-8391	A200641-2	E-Z200072-17
	BLANCO		E-Z1018-8367	A200639-1	E-Z200071-18	E-Z1018-8392	A200641-2	E-Z200072-18
	AZUL		E-Z1018-8368	A200639-1	E-Z200071-38	E-Z1018-8393	A200641-2	E-Z200072-38

#### ESPECIFICACIONES TÉCNICAS:

Listado UL y Certificado CSA  
 NEMA 3R  
 Voltaje: 600 V máximo  
 Corriente: 400 Amp máximo  
 Compuesto Base: TPE (Santoprene) 105°C  
 Material del Contacto: Aleación de Cobre ASTM B16







Vulcanice conectores y empalmes utilizando el mismo equipo básico

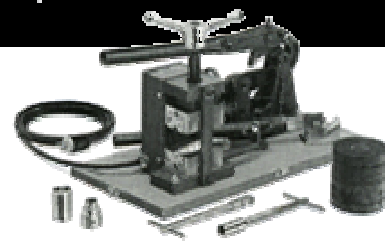
La prensa de vulcanizado utilizada para conectores puede ser convertida en una prensa de empalme mediante el reemplazo de los dados del molde conector por dados de moldeo de empalme (consulte al fabricante)

## JUEGO COMPLETO DE VULCANIZACIÓN

Cable	Diam. Ext. del Cable	Serie E1015	Serie E1016
#8	.440	A300120-1	—
#6	.510	A300120-2	—
#4	.570	A300120-3	—
#2	.660	—	A300100-3
#1	.740	—	A300100-4
1/0	.770	—	A300100-5
2/0	.820	—	A300100-6
3/0	.870	—	A300100-7
4/0	.930	—	A300100-8

El juego de vulcanización para cables calibres #8-4/0 viene completo con dados de moldeo y dispositivo para empalme para un calibre de cable. Pueden acomodarse calibres de otras medidas mediante la orden por separado de dados adicionales (listados a continuación). Consulte la página 11 para prensas de empalmes y dados.

**NOTA:** El equipo de vulcanización para cables #8-4/0 no es intercambiable con equipo para calibre 350-750MCM. Existen otras medidas disponibles.



## ÚNICAMENTE Prensas de Vulcanización

Cable	Diam. Ext. del Cable	Serie E1015	Serie E1016	Serie E1017
#8	.440	A300121-1	—	—
#6	.510	A300100-2	—	—
#4	.570	A300100-3	—	—
#2	.660	—	A300103-3	—
#1	.740	—	A300103-4	—
1/0	.770	—	A300103-5	—
2/0	.820	—	A300103-6	—
3/0	.870	—	A300103-7	—
4/0	.930	—	A300103-8	—
350MCM	1.150	—	—	A300106-1
500MCM	1.310	—	—	A300106-2
750MCM	1.580	—	—	A300106-3

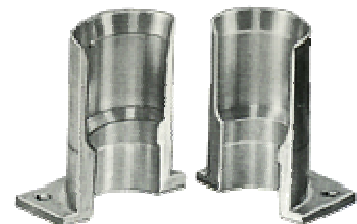
La prensa de vulcanización para cables medidas #8-750MCM viene completo con dados para moldeo para una medida de cable. Medidas adicionales pueden acomodarse mediante la orden por separado de dados adicionales para coincidir con la medida de su cable. (Listados a continuación)

**NOTA:** El equipo de vulcanización para cables medidas #8-4/0 no es intercambiable con equipo para calibre 350-750MCM.



## DADOS PARA MOLDEO DE CONECTORES

Cable	Diam. Ext. del Cable	Serie E1015	Serie E1016	Serie E1017
#8	.440	201015-3	—	—
#6	.510	201015-15	—	—
#4	.570	201015-18	—	—
#2	.660	—	200895-20	—
#1	.740	—	200895-21	—
1/0	.770	—	200895-22	—
2/0	.820	—	200895-23	—
3/0	.870	—	200895-24	—
4/0	.930	—	200895-17	—
350MCM	1.150	—	—	200006-3
500MCM	1.310	—	—	200006-6
750MCM	1.580	—	—	200006-8



# Partes, Herramientas y Accesorios

## HERRAMIENTAS DE ENSAMBLE DE CONECTORES Y ACCESORIOS

No. de Parte	Descripción	No. de Parte	Descripción
A400001	E1016 Herramienta de ensamble Lektralink	A200020-1	COM-A-LONG para jalar los contactos macho en la Serie E1015
100300	Tubo de Spray #70, 12 oz.	A200020-2	COM-A-LONG para jalar los contactos hembra en la Serie E1015
100300-1	Tubo de Spray, 16 oz., / brocha de aplicación	A200020-3	COM-A-LONG para jalar los contactos macho de la Serie E1016
A101208	Tubo son grasa silicon 2 oz. para lubricación del extremo de los aisladores de hule sintético	A200020-4	COM-A-LONG para jalar los contactos hembra de la Serie E1016
A100632	Herramienta para retirar los contactos E1016 de los aisladores		
A100072	Cortadora de Cable – Cable del #6-4/0		



## HERRAMIENTAS DE ENSAMBLE DE CONECTORES Y ACCESORIOS

Conector Serie	Juego de Tornillos	Lámina de Cobre	Cojín de Presión	Alambre de Retención	Hoja de Instrucciones
E1015	100012-25	100400-2	—	100573-1	EB-175
E1016	100012-18	100400-4*	101214	100573-1	EB-169
E1017	100012-5	—	101214	100573-1	EB-168

\*NOTE: La lamina 100400-4 es para estilos de un tornillo o de estilo compresión. Para conector de doble tornillo, utilice la lámina 100400-5.

## DADOS Y PRENSAS PARA COMPRESIÓN PARA LAS SERIES E1015 Y E1016

Cable	Dado de Compresión	Prensa de Compresión
#8	100514-1	A200914-1
#4-6	100514-2	A200914-2
#1-2	100514-3	A200914-3
1/0-2/0	100514-4	A200914-4
4/0	100514-6	A200914-6

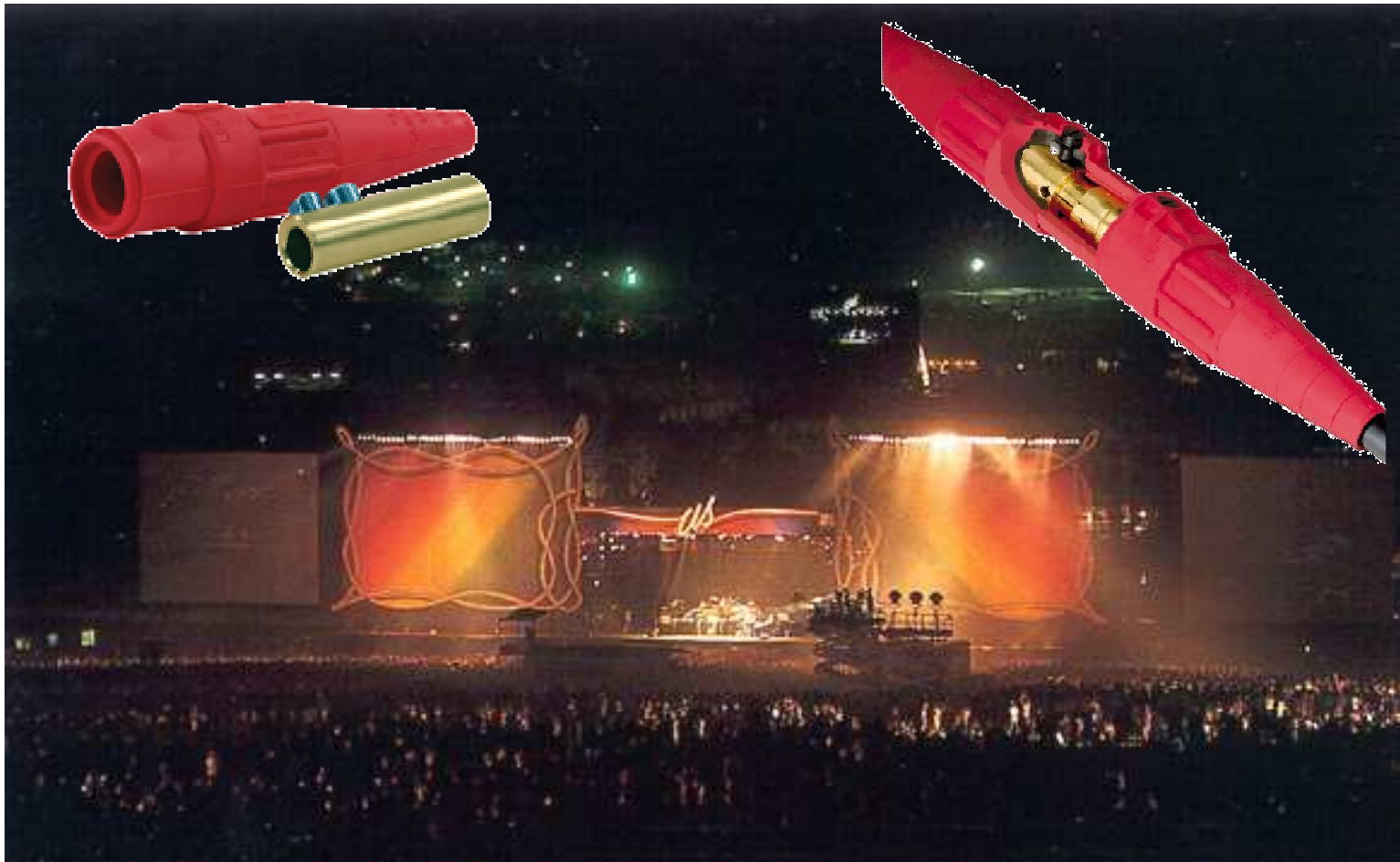
EL BLOQUE CALIBRADOR PARA LA CALIBRAR LA HERRAMIENTA DE COMPRESIÓN ES: #100891.



Dado

Prensa

\* La información de los productos publicada en este catálogo es suficientemente precisa para la mayoría de las aplicaciones, pero no está garantizada. La información del Producto está sujeta a cambio sin previo aviso.



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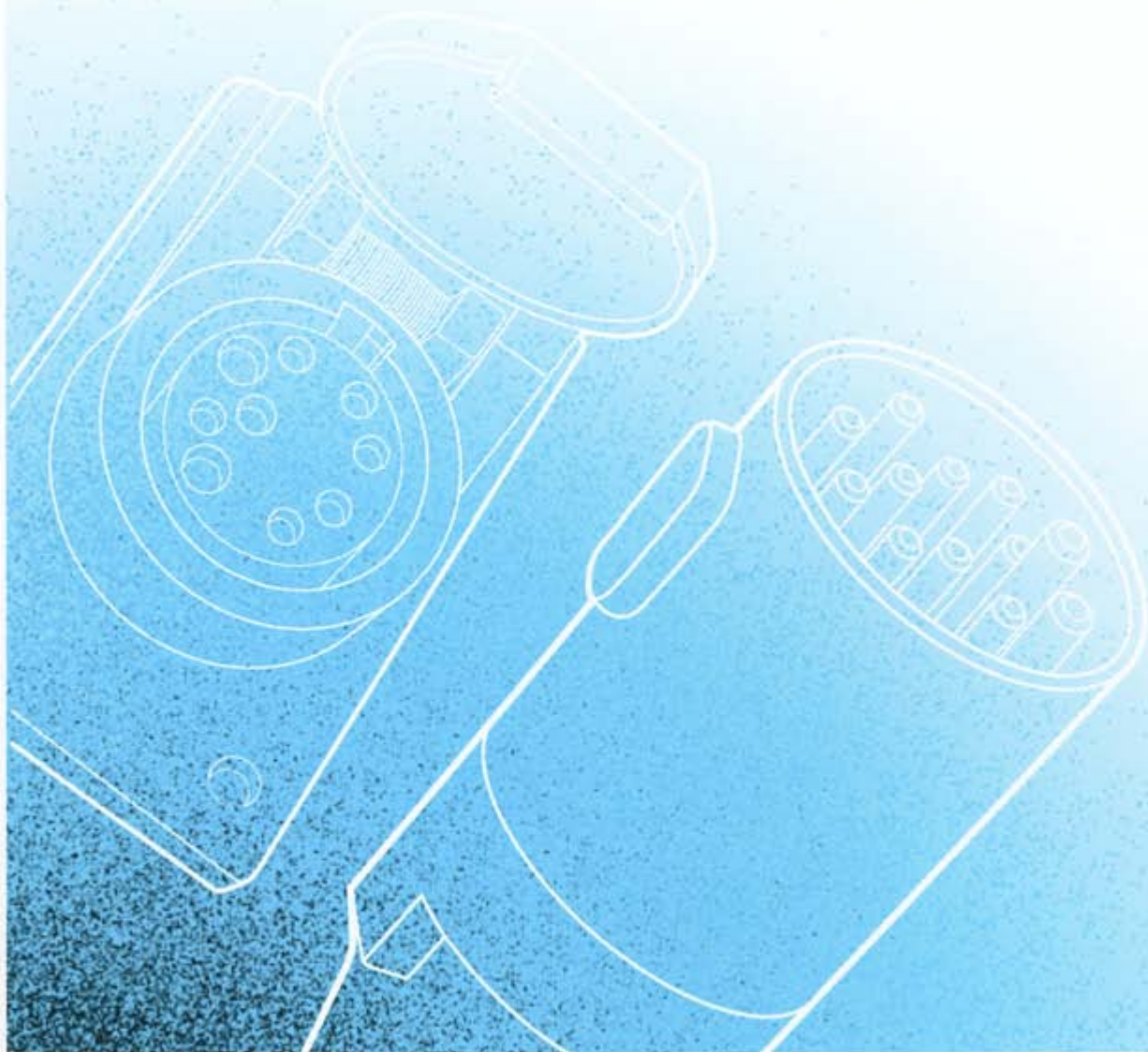
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[www.crouse-hinds.com.mx](http://www.crouse-hinds.com.mx)

01800-2244637  
01800-CCHINDS



**Crouse-Hinds Molded Products**  
**ECC Connectors**



**COOPER** Crouse-Hinds

# Crouse-Hinds ECC Connectors with molded-to-cable construction provide circuit integrity.

## Electrical Parameters

3 to 12 Contacts, #12 AWG Conductors.

Up to 600 Volts; 20 Amps.

A rugged combination of a molded-to-cable male plug and a female terminal back receptacle. The receptacle is designed for convenient mounting on standard FS or FD wiring boxes. The plug is furnished molded to various lengths of either Neoprene® or polyvinyl chloride, 600 volt cable.

The ECC Connector has found widespread use in applications where operating conditions are demanding, and the utmost in reliability is required due to the high cost of downtime.

### Rugged construction

Resilient molded plug resists breaking or shattering when handled roughly or dropped. Tapered molded cable junction and built-in strain reliefs at rear of plug withstand extreme amounts of flexing and jerking. Contacts are bonded in rubber; won't loosen or fall out.

### Positive polarization

Three way polarization — (pin arrangement, pin size and a polarizing rib) — provide positive polarization.

### Water tight, dust tight and corrosion resistant

A full-length shroud over the male pins fits snugly around the mating surfaces of the receptacle. When the plug is not engaged, a spring-loaded receptacle cover seals out dirt, dust, and moisture. The mounting area of the wiring box is sealed by a flexible gasket. Specially formulated compounds are highly resistive to the deteriorating effects of oil, dust, acids and sunlight.

### Safe

All electrical components are enclosed in or shielded by synthetic rubber insulation. Male contacts are covered by an extended shroud. In addition, the ground pin makes contact first and breaks contact last. The plug is held firmly in place by the spring-loaded cover, providing a secure connection.

### Easily wired and installed

Contacts are permanently numbered for quick reference to color coding. Receptacles have well-separated terminals for simplified wiring and fit common factory wiring boxes for easy installation. Plugs are prewired and molded to cable at the factory eliminating the need for attachment on the job site.

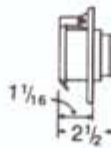
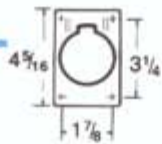
### Economical

No assembly labor to attach plugs to cable, saves time and money. Cost of plugs with cable compare with the cost of quality attachable plugs without cable.

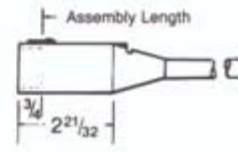
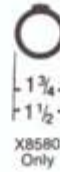














# ECC Connectors- Round



## DIMENSIONS



Color Code	Electrical Data			Male Plugs			Female Receptacles
	No. of Cont.	AMP. AWG	(600V)	Assy. Lgth.	Cable Jacket Neoprene® Part Nos.	PVC Part Nos.	
 <p>Contact No. Color 1 Green 2 Black 3 White</p> <p>X8630</p>	3	12	20	6' 6' 12' 18'	X8630-28* X8630-10 X8630-11 X8630-12		X8630-8A
 <p>Contact No. Color G Green X Black Y White</p> <p>X8580</p> <p>Z Red</p>	4	12	16	6' 6' 12' 18'	(Model 8018) X8580-30* X8580-12 X8580-13 X8580-14		(Model 8008) X8580-5
 <p>Contact No. Color 1 Green 2 Orange 3 Black</p> <p>X8571</p> <p>4 White 5 Red</p>	5	12	16	6' 12' 18'	(Model SKP5G) X8571-2 X8571-3 X8571-4		(Model SKR5G) X8571-24A
 <p>Contact No. Color 1 Green 2 Orange 3 Blue 4 Black</p> <p>X8768</p> <p>5 White 6 Red</p>	6	12	16	6' 6' 12' 18'	(Model SKP6G) X8768-23* X8768-5 X8768-6 X8768-7		(Model SKR6G) X8768-31A
 <p>Contact No. Color 1 Green 2 Orange 3 Blue 4 White w/Black</p> <p>X8771</p> <p>5 Black 6 White 7 Red</p>	7	12	16	6' 12' 18'	(Model SKP7G) X8771-5 X8771-6 X8771-7	X8771-1 X8771-2 X8771-3	(Model SKR7G) X8771-28A
 <p>Contact No. Color 1 Green 2 Orange 3 Blue 4 White w/Black</p> <p>X8769</p> <p>5 Red w/Black 6 Black 7 White 8 Red</p>	8	12	15	6' 12' 18'	(Model SKP8G) X8769-5 X8769-6 X8769-7		(Model SKR8G) X8769-28A
 <p>Contact No. Color 1 Green 2 Orange 3 Blue 4 White w/Black 5 Red w/Black</p> <p>X8616</p> <p>6 Green w/Black 7 Black 8 White 9 Red</p>	9	12	12	6' 12' 18' 18'	(Model SKP9G) X8616-13 X8616-14 X8616-15 75° ANGLE X8616-44*	X8616-16 X8616-17 X8616-18	(Model SKR9G) X8616-54A
 <p>Contact No. Color 1 Green 2 Orange 3 Blue 4 White w/Black 5 Red w/Black</p> <p>X8770</p> <p>6 Green w/Black 7 Orange w/Black 8 Black 9 White 10 Red</p>	10	12	14	6' 12' 18'	(Model SKP10G) X8770-5 X8770-6 X8770-7		(Model SKR10G) X8770-21A
 <p>Contact No. Color 1 Green 2 Orange 3 Blue 4 White w/Black 5 Red w/Black 6 Green w/Black</p> <p>X8398</p> <p>7 Orange w/Black 8 Blue w/Black 9 White 10 Black 11 Red</p>	11	12	14	6' 12' 18'	(Model SKP11G) X8398-7 X8398-8 X8398-9	X8398-10 X8398-11 X8398-12	(Model SKR11G) X8398-30A
 <p>Contact No. Color 1 Green 2 Orange 3 Blue 4 White w/Black 5 Red w/Black 6 Green w/Black</p> <p>X8358</p> <p>7 Orange w/Black 8 Blue w/Black 9 White 10 Black 11 Red 12 Black w/White</p>	12	12	13	6' 12' 18' 18'	(Model SKP12G) X8358-9 X8358-10 X8358-11 75° ANGLE X8358-50*	X8358-12 X8358-13 X8358-14	(Model SKR12G) X8358-63A

NOTE: Refer to price list for identification of stock items.  
Neoprene is a registered trademark of DuPont.

\*All rubber skirt

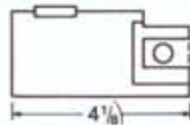


# ECC Connectors — Round Shorting Seals

6090

## DIMENSIONS

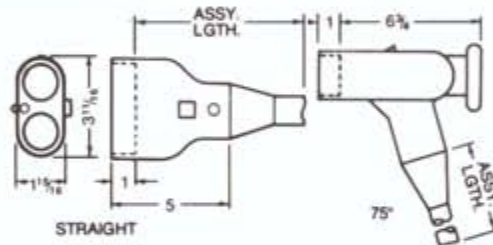
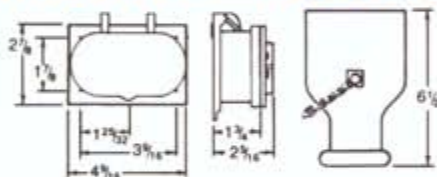
1 1/2" (X8580 Only)



#4 Straight Link Chain

Pin Arrangement	Part No.	Pin Shorting	Chain	Special Notes
 X8580	X8580-3	X&Y&Z	G Open	Yellow
	X8580-11	X&G Y&Z	3'	Green
	X8580-17	X&G Y&Z	2'	
 X8771	X8771-9	1&5, 2&6, 3&4	7 Open	
	X8771-10	2&3, 5&5	1, 4, 6 Open	
	X8771-16	2&5, 3&7, 4&6	1 Open	
 X8616	X8616-9	2&8, 3&9, 4&6, 5&7	1 Open	
	X8616-19	2&8, 4&6	1, 3, 5, 7, 9 Open	
	X8616-34	2&8, 3&9, 4&6, 5&7	1 Open	#1/0 Chain
 X8358	X8358-17	2&3, 4&8, 5&7, 6&9, 10&11	1, 12 Open	
	X8358-19	2&4, 3&9, 5&10, 6&8, 7&11	1, 12 Open	
	X8358-27	2&3, 4&5, 10&11	1, 6, 7, 8, 9, 12 Open	
	X8358-30	2&5, 3&4, 6&7, 8&11, 9&10	1&12 Open	
	X8358-38	2&4, 3&9, 5&10, 6&8, 7&11	1, 12 Open	

# ECC Connectors — Dual Round



No. of Cond.	AMP. AWG (600V)	Male Plug		Female Receptacle	SHORTING SEALS			Special Notes		
		Assy. Lgth.	Neoprene Cable		Part No.	Pin Shorting A	Pin Shorting B		Chain (Navy Chain)	
X8382	9 16 8	12' 18' 20'	X8382-10	X8382-23	X8382-1 (Neoprene Insert) (Metal Mounting Shell)	X8382-3	1&2,3&4G	1&2,3&4G	Link 3' #4Str. LK. 2' 2' 2'	Red Red Blue
			X8382-13	X8382-24		X8382-18	No Pins	2&3		
			X8382-6	X8382-25		X8382-19	3 & 4G	2&3,1&4G		
						X8382-21	3&4G, 1&2	3&4G		
X8658	9 16 8 (All plugs yellow)	12' 18' 20'	X8658-25	X8658-23	X8658-3 (Neoprene Insert) (Metal Mounting Shell)	X8658-4	1&2,3&4 5&5	1&2,3&4	2' 2' 2'	Yellow 1&2 1/4" Shorter
			X8658-26	X8658-21		X8658-19	1&2,3&4	1&2,3&4		
			X8658-27	X8658-22		X8658-20	5 omitted	5 omitted		
	11 16 8	6' 12' 18' 20'	X8658-14				1&2,3&4	1&2,3&4		
			X8658-15	X8658-29						
			X8658-17							

NOTE: Refer to price list for identification of stock items.

COLOR CODE	X8382				X8658 9/C					X8658 11/C				
	Contact No.	Color	A	B	Contact No.	Color	A	B	Contact No.	Color	A	B		
	1	Orange	1	Green w/Black	1	Green w/Black	1	Green w/Black	1	Yellow w/Black	1	Red w/Black		
	2	Red w/Black	2	Red	2	Red	2	Red	2	Black	2	Green w/Red		
	3	White w/Black	3	White	3	White w/Black	3	White	3	Blue	3	Red		
	4	Blue	4	Black	4	Blue	4	Black	4	Blue w/Black	4	White		
			Grd.	Green	5	Jumpered to 5B	5	Jumpered to 5A	5	Yellow	5	White w/Black		
							Grd.	Green				Grd.	Green	

**COOPER** Crouse-Hinds

Distributed by:

**For more information:**  
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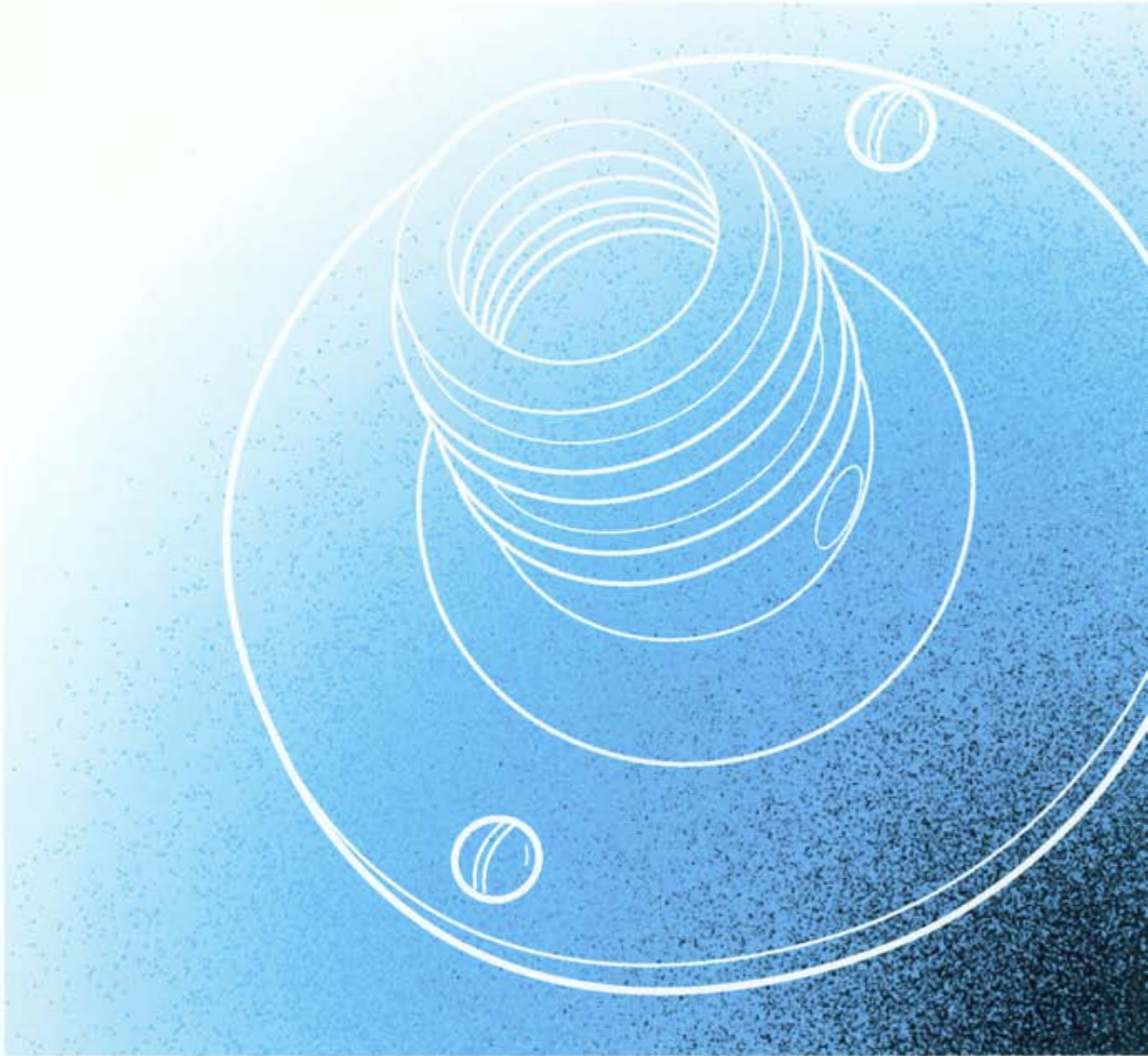
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Crouse-Hinds Molded Products  
**Lamp Socket**



**COOPER** Crouse-Hinds



# Crouse-Hinds Vibration-Free Lamp Socket

Crouse-Hinds neoprene lamp sockets are shatterproof to prevent bulb breakage . . . vibration-free to prolong lamp filament life. One-piece molded construction assures absolute watertightness. Mounted on any stationary or movable piece of equipment that vibrates while operating, these sockets pay for themselves in prolonged lamp life and reduced maintenance.

### Features:

#### 1. One-Piece Molded Construction

Connections, wires, and socket are molded in protective wear-resistant neoprene body.

#### 2. Resilient Membrane

Neoprene membrane dampens vibration, prolongs lamp life, cuts maintenance.

#### 3. Clamping Groove

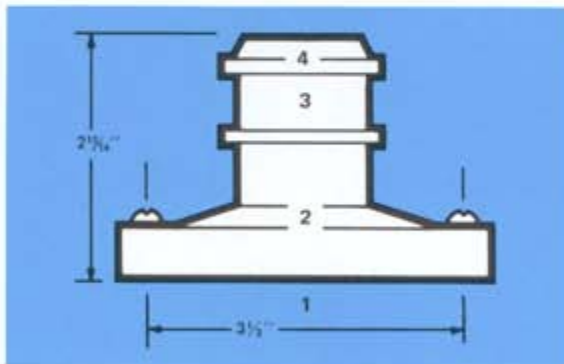
Securely holds lamp shade or guard.

#### 4. Moisture-Tight Lip

Snugly fits standard medium bulb neck, seals against dirt, water, oil.

#### 5. Standard Size

Supporting membrane perforated for mounting on standard 4" outlet box. Each socket is individually packed, has a 6" insulated wiring lead, and includes mounting screws.



**ORDERING DATA**

X8360-2 (Black)  
X8360-6 (Yellow)

### APPLICATIONS

- Steel mills
- Foundries
- Packing houses
- Fertilizer plants
- On presses
- On crane and shovel booms
- Any other application involving vibration, moisture or contamination

NOTE: Refer to price list for identification of stock items.



### ACCESSORY ITEMS

313709-2	Lamp Guard
1316104-1	Corrosion Resistant Wiring Box 1/2" Knock Outs
1316104-2	Corrosion Resistant Wiring Box 3/4" Knock Outs

Distributed by:

Crouse-Hinds reserves the right to alter or improve the design or construction of its products and to furnish them, when so altered, without reference to the illustrations or descriptions in this bulletin.

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Visit our web site at:  
<http://www.crouse-hinds.com>

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**Crouse-Hinds Molded Products**  
**MATERIAL SAFETY DATA SHEET: Uncured Black Chloroprene Tape 319735-1**

**SECTION I – PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME(S) OR NUMBER(S): 319735-1  
PRODUCT DESCRIPTION: Uncured Black Chloroprene Rubber (Neoprene) Tape  
SUPPLIER: Cooper Industries/Crouse-Hinds Molded Products  
ADDRESS: 4758 East Washington Street  
La Grange, NC 28551  
PHONE/FAX: (252) 566-3014/ (252) 566-9337  
EMERGENCY PHONE: 1-800-424-9300 (CHEMTREC)

**SECTION II – HAZARDOUS INGREDIENTS**

This mixture has not been evaluated as a whole. All ingredients are bound in a polymer matrix – release of ingredients as pure substances is not anticipated. As supplied, this product is not expected to cause adverse health effects. During vulcanization or other processing operations, dusts or fumes may be released which can cause irritation or have more harmful health effects. The end-user (fabricator) must provide adequate ventilation and additional precautions as necessary to protect workers from exposure. May release highly toxic combustion products during fires. The following ingredients are considered hazardous per OSHA 1910.1200:

IDENTITY	%	CAS NO.	ACGIH-TLV	OSHA-PEL	PRIMARY HAZARD(S)
Neoprene	< 90	9010-98-4	None Established	None Established	Possible sensitization
Carbon black	< 10	1333-86-4	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	Lung effects
Mineral oil	< 5	No Data	None Established *	None Established *	Skin cancer

\* ACGIH and OSHA have established an exposure limit of 5 mg/m<sup>3</sup> for oil mist. This exposure limit applies only to severely solvent extracted or hydrotreated (pure) mineral oil. The oil used in this product is believed to contain polynuclear aromatic hydrocarbons (PAHs). ACGIH has proposed an exposure limit of 0.005 mg/m<sup>3</sup> for mineral oil containing a sum total of 15 PAHs listed as carcinogens by the U.S. National Toxicology Program.

**SECTION III – PHYSICAL DATA**

Appearance:	Black Rubbery Tape	Odor:	Characteristic (rubber)
Boiling Point:	Not Applicable	Specific Gravity (H <sub>2</sub> O = 1):	1.43
Vapor Pressure:	Negligible	Percent Volatile:	0
Vapor Density (Air = 1):	Not Applicable	Evaporation Rate (Ether = 1):	Not Applicable
Solubility in Water:	Negligible		

**SECTION IV – FIRE AND EXPLOSION DATA**

**FLASHPOINT:** Not Applicable                      **L.E.L.:** Not Applicable                      **U.E.L.:** Not Applicable

**EXTINGUISHING MEDIA:** Water, foam, dry powder. Carbon dioxide may not be suitable because the lack of cooling capacity may result in reignition.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Combustible solid. Does not present an explosion hazard

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may release a variety of products including hydrogen chloride, hydrogen sulfide, sulfur dioxide, carbon disulfide, carbon monoxide, chloroprene and other oxidation products. Many decomposition products produced are toxic and some are flammable. Wear appropriate protective equipment.

**Crouse-Hinds Molded Products**  
**MATERIAL SAFETY DATA SHEET: Uncured Black Chloroprene Tape 319735-1**

**SECTION IV – FIRE AND EXPLOSION DATA (continued)**

**FIRE FIGHTING INSTRUCTIONS:** Firefighters should wear a NIOSH/MSHA approved self-contained breathing apparatus operated in positive pressure mode and full turnout or bunker gear with additional chemical protective clothing as necessary to prevent exposure.

**SECTION V – HEALTH HAZARD DATA**

**EFFECTS OF OVEREXPOSURE:**

**ACUTE (SHORT TERM):** Repeated contact may cause skin rashes (dermatitis) in sensitive workers. Hot product can cause thermal burns. Inadequate ventilation during processing operations may result in inhalation of dusts, which may cause eye, skin, and respiratory irritation; chest tightness; and shortness of breath. Equipment malfunction or overheating may produce highly toxic fumes. All symptoms should be treated as potentially harmful. Immediately remove worker from exposure.

**CHRONIC (LONG TERM):** Reduced lung function and chronic bronchitis have been reported following repeated inhalation of hot processing fumes over time. The mineral oil contained in this tape has been classified as a confirmed human carcinogen by the International Agency for Research on Cancer (IARC, Group A) and the U.S. National Toxicology Program (NTP). Repeated contact with unrefined oils over time can increase the risks of developing skin cancer. Skin cancer may begin as a warty growth or mole, which changes in size or color. Excess deaths from various cancers have been reported in epidemiologic studies among rubber products workers. IARC the rubber industry as an exposure circumstance which “entails exposures that are carcinogenic to humans”.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Solid product may aggravate pre-existing skin conditions. Fumes may aggravate pre-existing eye, skin, and respiratory conditions.

**EMERGENCY FIRST AID PROCEDURES:**

- INHALATION:** For inhalation of processing or decomposition fumes, immediately remove to fresh air. Give supplemental oxygen or artificial respiration as indicated. Get immediate medical attention
- EYES:** Flush eyes with lukewarm water for 15 minutes. If irritation persists, get medical attention.
- SKIN:** Remove contaminated clothing and wash skin thoroughly with soap and water. If rashes occur or irritation persists, get medical attention. Launder clothing before reuse.
- INGESTION:** Not expected. Major constituents are not highly toxic but limited data is available. Consult a physician.
- HOT PRODUCT:** If hot product contacts eyes, get immediate medical attention. For skin contact, immediately immerse the affected area in cold water. Do not attempt to remove product as damaged skin may tear easily. Get immediate medical attention.

**SECTION VI – REACTIVITY DATA**

**STABILITY:** Stable

**INCOMPATIBILITY:** May be incompatible with strong oxidizers and strong acids. Neoprene rubber may produce nitrosamines during hot processing or when in contact with nitrates, nitrites, nitrogen oxides or nitrosamines. Salt bath curing (using nitrate/nitrite salts) can produce hazardous amounts of volatile nitrosamines. Do not overheat.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Depending on conditions, thermal decomposition may release a variety of products including hydrogen chloride, hydrogen sulfide, sulfur dioxide, carbon disulfide, carbon monoxide, chloroprene and other oxidation products.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**Crouse-Hinds Molded Products**  
**MATERIAL SAFETY DATA SHEET: Uncured Black Chloroprene Tape 319735-1**

**SECTION VII – SPILL OR LEAK PROCEDURES**

Solid material does not require special control measures. Sweep, shovel, or otherwise recover and place in closed containers for later reuse or disposal. Processing fume condensates, which form on ductwork, exhaust hoods and other surfaces are combustible and may contain toxic components. Periodically remove condensates to prevent accumulation. Use appropriate control measures and wear skin protection (including gloves) to prevent contact during clean-up operations.

**SECTION VIII – SAFE HANDLING AND USE PROCEDURE**

**RESPIRATORY PROTECTION:** Under normal working conditions, below acceptable exposure guidelines, none required. Respiratory protection depends upon level of exposure and should be selected in accordance with 29 CFR 1910.1200.

**VENTILATION:** General ventilation. Use local exhaust ventilation and enclosed processes as necessary to control processing fumes (during vulcanization, etc.).

**PROTECTIVE GLOVES:** Protective gloves of suitable material.

**EYE PROTECTION:** Wear goggles or full-facepiece respirator as necessary for contact with fumes.

**OTHER PROTECTIVE EQUIPMENT:** Coveralls are recommended. Promptly remove non-impervious contaminated clothing and launder separately before reuse. Discard clothing which cannot be cleaned (i.e.: leather shoes, etc.).

**SECTION IX – SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE:** Store below 70 °F away from direct sources of heat and sunlight. To prevent formation of toxic decomposition products, avoid exposure to elevated temperature for excessive periods of time. Provide adequate ventilation during processing. Equipment malfunction or improper procedures may cause decomposition. Use appropriate control measures including appropriate supplied air respirators and protective clothing. Use proper handling procedures for any ingredients added to this product.

Small amounts of N-nitrosodiethylamine and N-nitrosodibutylamine may be formed during processing and curing neoprene. (Contact with some nitrogen compounds may produce hazardous levels – See Section VI). These substances are carcinogenic and have been associated with reproductive, teratogenic, and mutagenic effects in experimental studies. Use appropriate control measures.

**OTHER PRECAUTIONS:** Do not eat, drink, smoke or apply cosmetics in work or storage areas. Do not store personal items in work or storage areas. Wash hands before eating, drinking, smoking, and breaks. Do not use processing equipment to heat food.

**DISCLAIMER**

As conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with Federal, State, and local laws and regulations remains the responsibility of the user.



**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>COMMON NAME:</b>	319757-1		
<b>CHEMICAL NAME:</b>	Unvulcanized Neoprene Rubber Compound		
<b>FORMULA:</b>	Mixture		
<b>PRODUCT CAS NO.:</b>	Mixture		
<b>SUPPLIER:</b>	Cooper Industries/Crouse-Hinds Molded Products		
<b>ADDRESS:</b>	4758 East Washington Street		
<b>CITY, STATE, ZIP:</b>	La Grange, NC 28551		
<b>PHONE:</b>	(252) 566-3014	<b>EMERGENCY PHONE: 1-800-424-9300 (CHEMTREC)</b>	

**2. HAZARDOUS INGREDIENTS: COMPOSITION/INFORMATION**

INGREDIENT	% WEIGHT	PEL-OSHA	TLV-ACGIH	LD <sub>50</sub> /LC <sub>50</sub> ROUTE/SPECIES
Neoprene CAS: 9010-98-4	40-60	None Established	None Established	No Data
Kaolin CAS: 1332-58-7	30-50	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	2 mg/m <sup>3</sup> * (respirable)	No Data
Carbon Black CAS No.: 1333-86-4	5-10	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	No Data
Polyether plasticizer CAS No.: 143-29-3	1-5	None Established	None Established	No Data
Magnesium oxide CAS: 1309-48-4	1-5	15 mg/m <sup>3</sup> (fume, total particulate)	10 mg/m <sup>3</sup>	No data
Quartz CAS: 14808-60-7	0.1-1	[10 mg/m <sup>3</sup> / (%SiO <sub>2</sub> +2) (resp.) [30 mg/m <sup>3</sup> / (%SiO <sub>2</sub> +2) (total)	0.05 mg/m <sup>3</sup> (respirable)	No Data

\* Value is for particulate matter containing no asbestos and < 1% crystalline silica.

OSHA Regulatory Status: Fumes from this material are classified as hazardous under OSHA regulations.

**3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

Non-flammable black rubbery material. As supplied, release of ingredients is not expected as ingredients are bound in a polymer matrix. Repeated or prolonged skin contact may cause allergic skin reactions in workers sensitive to neoprene rubber. Hot product may cause thermal burns. Irritating dusts and fumes may be produced during vulcanization or other processing operations. Equipment malfunction or overheating can produce toxic fumes that can be harmful or fatal. Use adequate ventilation in processing areas.

**POTENTIAL HEALTH EFFECTS**

**EYE:** None known for solid material. Hot product may cause thermal burns. Fumes released during normal processing may cause irritation.

**SKIN:** Repeated contact may cause irritation and redness in workers allergic to rubber. Hot product may cause thermal burns.

**INHALATION:** Inadequate ventilation during processing operations may result in inhalation of fumes that may produce irritation, chest tightness, shortness of breath, nausea, dizziness, and headaches. Equipment malfunction or overheating may produce significant amounts of harmful fumes (See Section 11).

**CHRONIC:** Epidemiologic studies among rubber products workers has noted excess deaths from various cancers.

**CARCINOGENICITY:** IARC: Yes NTP: Yes OSHA: Yes

IARC lists the rubber industry as an exposure circumstance that "entails exposures that are carcinogenic to humans". Fillers in this product contain small amounts of quartz, an ingredient classified as a confirmed human carcinogen by IARC and NTP and regulated under 29 CFR 1910.1200 by OSHA. This product also contains carbon black, a substance that is classified as a possible carcinogen by IARC and has caused cancer in experimental animals. These ingredients are bound, and release is not expected under normal conditions.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Irritant properties of processing fumes may aggravate pre-existing eye, skin, and respiratory conditions.

**SIGNS AND SYMPTOMS:** Processing fumes may cause eye and respiratory irritation.

**TARGET ORGANS:** Eyes, skin, respiratory system (processing fumes)

**4. FIRST AID MEASURES**

**EYE CONTACT:** If irritation occurs, flush eyes with lukewarm water for 15 minutes. If irritation persists, get medical attention. If heated rubber comes in contact with the eyes, get immediate medical attention.

**SKIN:** Remove contaminated clothing and wash skin thoroughly with soap and water. If irritation persists, seek medical attention. If skin comes in contact with heated rubber, immediately immerse the affected area in cold water and obtain medical attention. DO NOT attempt to remove product as damaged skin may tear easily.

**INHALATION:** Acute exposure is not anticipated. If fumes from heated product are inhaled, immediately remove to fresh air. If breathing problems occur, administer oxygen or artificial respiration as indicated. All symptoms should be treated as potentially harmful. Get immediate medical attention.

**OTHER:** Not expected. Major ingredients are not highly toxic; however, no data is available for polymerized rubber. Consult a physician.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

**FLASH POINT:** Non-Flammable

**FLAMMABLE LIMITS:** LEL: No Data UEL: No data

**NFPA HAZARD CLASSIFICATION:**

**HEALTH:** 1 **FLAMMABILITY:** 1 **INSTABILITY:** 0

**EXTINGUISHING MEDIA:** Water, dry chemical, or protein-type dry air foam. Carbon dioxide may be unsuitable as the lack of cooling capacity may result in reignition.

**FIRE AND EXPLOSION HAZARDS:** Not flammable but may be difficult to extinguish once ignited. Direct water stream on molten material may spatter or spread fire. Release of significant quantities of fine powders or dusts from this product may cause a dust explosion. Fire may produce irritating, toxic, or flammable decomposition products including hydrogen chloride, sulfur compounds, aldehydes, organic acids, carbon oxides, chloroprene and other oxidation products.

**5. FIRE FIGHTING MEASURES (continued)**

**FIRE FIGHTING INSTRUCTIONS:** Firefighters should wear a NIOSH-approved, full-facepiece self-contained breathing apparatus (SCBA) operated in positive pressure mode and full turnout or bunker gear with additional chemical protective clothing as necessary to protect against thermal decomposition products.

**6. ACCIDENTAL RELEASE MEASURES**

Solid material does not require special control measures. Sweep, shovel, or otherwise recover and place in closed containers for later reuse or disposal. If spillage occurs during processing, isolate hazard area and wait for material to cool before recovering. Processing fume condensates that form on ductwork, exhaust hoods and other surfaces are combustible and may contain toxic components. Periodically remove condensates to prevent accumulation. Wear appropriate personal protective equipment (See Section 8).

**7. HANDLING AND STORAGE**

Store below 70 °F away from direct sources of heat and sunlight. Provide adequate ventilation during processing. Equipment malfunction, increasing processing temperature or other improper procedures may result in the formation of irritating, toxic, or flammable decomposition products. Do not heat rubber without adequate control measures. Use proper handling procedures for any ingredients added to this product.

Small amounts of N-nitrosodiethylamine and N-nitrosodibutylamine may be formed during processing and curing neoprene. (Contact with some nitrogen compounds may produce hazardous levels – See Section 10). These substances are carcinogenic and have been associated with reproductive, teratogenic, and mutagenic effects in experimental studies. Use appropriate control measures.

DO NOT eat, drink, smoke, or apply cosmetics in work areas. DO NOT store personal items in work areas. Wash hands before eating, drinking, smoking, and breaks. Processing equipment may contain toxic decomposition residues. DO NOT USE PROCESSING EQUIPMENT TO HEAT FOOD.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:** Under normal working conditions below acceptable exposure guidelines, none required. Respiratory protection is dependent upon conditions and magnitude of exposure. Select NIOSH-approved respirators in accordance with 29 CFR 1910.134.

**SKIN PROTECTION:** Protective gloves. Wear gloves with thermal protection when processing.

**EYE PROTECTION:** Safety glasses or goggles are recommended. Wear full-facepiece supplied air respirator for fumes.

**ENGINEERING CONTROLS:** General ventilation. Use local exhaust ventilation and enclosed processes as necessary to control processing dusts and fumes when heating.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	Black rubbery solid
<b>ODOR:</b>	Characteristic (rubber)
<b>BOILING POINT:</b>	Not Applicable
<b>VAPOR PRESSURE:</b>	Negligible
<b>LIQUID DENSITY:</b>	No Data
<b>SOLUBILITY IN WATER:</b>	Negligible
<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b>	1.50
<b>MELTING POINT:</b>	No Data
<b>pH:</b>	Essentially neutral
<b>% VOLATILE:</b>	0



**10. STABILITY AND REACTIVITY**

STABILITY: Stable.

INCOMPATIBLE MATERIALS/CONDITIONS: Incompatible with strong oxidizers and strong acids. Do not overheat. Neoprene rubber may produce nitrosamines during hot processing or when in contact with nitrates, nitrites, nitrogen oxides or nitrosamines. Salt bath curing (using nitrate/nitrite salts) may produce hazardous amounts of volatile nitrosamines.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products depend upon conditions and may include hydrogen chloride, sulfur compounds, aldehydes, organic acids, carbon oxides, chloroprene and other oxidation products.

HAZARDOUS POLYMERIZATION: Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**INHALATION:** Processing fumes may cause irritation. Equipment failure and overheating may cause partial decomposition. The composition of the fumes released is determined by the conditions. Chlorine compounds emitted from neoprene may be highly irritating and can damage the lungs.

**SKIN:** Sensitive individuals may develop dermatitis with repeated contact.

**EYE:** Processing fumes may cause irritation.

**CHRONIC:** Rubber contains carbon black and small amounts of quartz. Although release of these ingredients is not expected, repeated inhalation of carbon black and quartz over time can cause lung disease and increase the risks of developing cancer.

Repeated over-exposure to n-nitrosamines during curing processes may adversely affect the fetus, reproductive system and increase the risks of developing cancer.

**OTHER:** No Data

**12. ECOLOGICAL INFORMATION**

Does not contain Class I or II ozone depleting substances. Ecotoxicity information for complex mixture was unavailable. Not expected to be highly mobile or biodegrade readily due to low water solubility.

**13. DISPOSAL CONSIDERATIONS**

Recycle, reclaim and dispose of in accordance with applicable local, state and federal regulations. Dispose per CFR Part 261 and 262. Incineration may produce toxic gases.

**14. TRANSPORT INFORMATION**

**DOT PROPER SHIPPING NAME:** Not defined as a hazardous material

**15. REGULATORY INFORMATION**

WHMIS CLASSIFICATION: D2B, D2A (dusts, fumes)

SARA HAZARD CLASSES (dusts and fumes): Acute Health Hazard  
Chronic Health Hazard

SARA TITLE III – SECTION 313 SUPPLIER NOTIFICATION: This product does not contain toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and 40 CFR 372.

SARA 304 (CERCLA): As supplied, this product does not contain chemicals subject to reporting to the National Response Center under CERCLA, Section 304, SARA Title III.

**15. REGULATORY INFORMATION (continued)**

CALIFORNIA PROPOSITION 65: This product contains ingredients known to the State of California to cause cancer.

TSCA/DSL: All ingredients are listed on the U.S. Toxic Substances Control Act (TSCA) inventory, exempt from listing or sold under an exemption.

**16. OTHER INFORMATION**

KEY:

ACGIH:	American Conference of Governmental Industrial Hygienists
C:	Ceiling
CAS:	Chemical Abstracts Service
DOT:	Department of Transportation
DSL:	Domestic Substances List
IARC:	International Agency for Research on Cancer
MSHA:	Mine Safety and Health Administration
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
SARA:	Superfund Amendment and Reauthorization Act
STEL:	Short-Term Exposure Limit
TDG:	Transportation of Dangerous Goods
TLV:	Threshold Limit Value
TSCA:	Toxic Substances Control Act
WHMIS:	Workplace Hazardous Materials Information System

**DISCLAIMER**

The information in this MATERIAL SAFETY DATA SHEET should be provided to all who will use, handle, store, transport, or otherwise be exposed to this material. This information has been prepared for the guidance of plant engineering, operations and management, and for persons working with or handling this material. Cooper Industries/Crouse-Hinds Division believes this information to be reliable and up-to-date as of the date of publication, but makes no warranty that it is.

**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>COMMON NAME:</b>	319753-2		
<b>CHEMICAL NAME:</b>	Unvulcanized Nitrile Rubber Compound		
<b>FORMULA:</b>	Mixture		
<b>PRODUCT CAS NO.:</b>	Mixture		
<b>SUPPLIER:</b>	Cooper Industries/Crouse-Hinds Molded Products		
<b>ADDRESS:</b>	4758 East Washington Street		
<b>CITY, STATE, ZIP:</b>	La Grange, NC 28551		
<b>PHONE:</b>	(252) 566-3014	<b>EMERGENCY PHONE: 1-800-424-9300 (CHEMTREC)</b>	

**2. HAZARDOUS INGREDIENTS: COMPOSITION/INFORMATION**

INGREDIENT	% WEIGHT	PEL-OSHA	TLV-ACGIH	LD <sub>50</sub> /LC <sub>50</sub> ROUTE/SPECIES
Acrylonitrile/Butadiene polymer CAS: 9003-18-3	30-60	None Established	None Established	No Data
Amorphous silica CAS: 7631-86-9	10-20	80 mg/m <sup>3</sup> % SiO <sub>2</sub>		No Data
Kaolin CAS: 1332-58-7	10-20	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	2 mg/m <sup>3</sup> * (respirable)	No Data
Carbon Black CAS No.: 1333-86-4	5-10	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	No Data
Polyether plasticizer CAS No.: 143-29-3	1-5	None Established	None Established	No Data
Zinc oxide CAS: 1314-13-2	1-5	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup> (dust/STEL) 5 mg/m <sup>3</sup> (fume)	No data
Di(2-ethylhexyl)adipate CAS: 103-23-1	1-5	None Established	None Established	No Data
1,2-Dihydro-2,2,4-trimethyl-quinoline CAS: 26780-96-1	0.1-1	None Established	None Established	No Data
Quartz CAS: 148060-7	0.1-1	[10 mg/m <sup>3</sup> / (%SiO <sub>2</sub> +2) (resp.) [30 mg/m <sup>3</sup> / (%SiO <sub>2</sub> +2) (total)	0.05 mg/m <sup>3</sup> (respirable)	No Data

\* Value is for particulate matter containing no asbestos and < 1% crystalline silica.

OSHA Regulatory Status: Fumes from this material are classified as hazardous under OSHA regulations.



### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Non-flammable black rubbery material. As supplied, release of ingredients is not expected as ingredients are bound in a polymer matrix. Repeated or prolonged skin contact may cause allergic skin reactions in workers sensitive to nitrile rubber. Hot product may cause thermal burns. Irritating dusts and fumes may be produced during vulcanization or other processing operations. Equipment malfunction or overheating can produce toxic fumes that can be harmful or fatal. Use adequate ventilation in processing areas.

#### POTENTIAL HEALTH EFFECTS

**EYE:** None known for solid material. Hot product may cause thermal burns. Fumes released during normal processing may cause irritation.

**SKIN:** Repeated contact may cause irritation and redness in workers allergic to rubber. Hot product may cause thermal burns.

**INHALATION:** Inadequate ventilation during processing operations may result in inhalation of fumes that may produce irritation, chest tightness, shortness of breath, nausea, dizziness, and headaches. Equipment malfunction or overheating may produce significant amounts of harmful fumes (See Section 11).

**CHRONIC:** Epidemiologic studies among rubber products workers has noted excess deaths from various cancers.

**CARCINOGENICITY:** IARC: Yes NTP: Yes OSHA: Yes

IARC lists the rubber industry as an exposure circumstance that "entails exposures that are carcinogenic to humans". Fillers in this product contain small amounts of quartz, an ingredient classified as a confirmed human carcinogen by IARC and NTP and regulated under 29 CFR 1910.1200 by OSHA. This product also contains carbon black, a substance that has caused cancer in experimental animals and is classified as "possibly carcinogenic to humans" (Group 2B) by IARC. These ingredients are bound, and release is not expected under normal conditions.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Irritant properties of processing fumes may aggravate pre-existing eye, skin, and respiratory conditions.

**SIGNS AND SYMPTOMS:** Processing fumes may cause eye and respiratory irritation.

**TARGET ORGANS:** Eyes, skin, respiratory system (processing fumes)

### 4. FIRST AID MEASURES

**EYE CONTACT:** If irritation occurs, flush eyes with lukewarm water for 15 minutes. If irritation persists, get medical attention. If heated rubber comes in contact with the eyes, get immediate medical attention.

**SKIN:** Remove contaminated clothing and wash skin thoroughly with soap and water. If irritation persists, seek medical attention. If skin comes in contact with heated rubber, immediately immerse the affected area in cold water and obtain medical attention. DO NOT attempt to remove product as damaged skin may tear easily.

**INHALATION:** Acute exposure is not anticipated. If fumes from heated product are inhaled, immediately remove to fresh air. If breathing problems occur, administer oxygen or artificial respiration as indicated. All symptoms should be treated as potentially harmful. Get immediate medical attention.

**OTHER:** Not expected. Major ingredients are not highly toxic; however, no data is available for polymerized rubber. Consult a physician.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

FLASH POINT: Non-Flammable

FLAMMABLE LIMITS: LEL: No Data UEL: No data

**NFPA HAZARD CLASSIFICATION:**

HEALTH: 1 FLAMMABILITY: 1 INSTABILITY: 0

EXTINGUISHING MEDIA: Water, dry chemical, or dry air foam. Carbon dioxide may be unsuitable as the lack of cooling capacity may result in reignition.

FIRE AND EXPLOSION HAZARDS: Not flammable but may be difficult to extinguish once ignited. Direct water stream on molten material may spatter or spread fire. Release of significant quantities of fine powders or dusts from this product may cause a dust explosion. Fire may produce irritating, toxic, and flammable decomposition products that may include various hydrocarbons, hydrogen cyanide, sulfur oxides, nitrogen oxides, ammonia, carbon oxides, and other oxidation products.

FIRE FIGHTING INSTRUCTIONS: Firefighters should wear a NIOSH-approved, full-facepiece self-contained breathing apparatus (SCBA) operated in positive pressure mode and full turnout or bunker gear with additional chemical protective clothing as necessary to protect against thermal decomposition products.

**6. ACCIDENTAL RELEASE MEASURES**

Solid material does not require special control measures. Sweep, shovel, or otherwise recover and place in closed containers for later reuse or disposal. If spillage occurs during processing, isolate hazard area and wait for material to cool before recovering. Processing fume condensates that form on ductwork, exhaust hoods and other surfaces are combustible and may contain toxic components that can be absorbed through the skin. Prevent skin contact with condensates. Periodically remove condensates to prevent accumulation. Wear appropriate personal protective equipment (See Section 8).

**7. HANDLING AND STORAGE**

Store below 70 °F away from direct sources of heat and sunlight. Provide adequate ventilation during processing. Equipment malfunction, increasing processing temperature or other improper procedures may result in the formation of irritating, toxic, or flammable decomposition products. Do not heat rubber without adequate control measures. Use proper handling procedures for any ingredients added to this product.

DO NOT eat, drink, smoke, or apply cosmetics in work areas. DO NOT store personal items in work areas. Wash hands before eating, drinking, smoking, and breaks. Processing equipment may contain decomposition residues that can cause poisoning from ingestion, skin contact, or inhalation. DO NOT USE PROCESSING EQUIPMENT TO HEAT FOOD.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

RESPIRATORY PROTECTION: Under normal working conditions below acceptable exposure guidelines, none required. Respiratory protection is dependent upon conditions and magnitude of exposure. Select NIOSH-approved respirators in accordance with 29 CFR 1910.134.

SKIN PROTECTION: Protective gloves. Wear gloves with thermal protection when processing.

EYE PROTECTION: Safety glasses or goggles are recommended. Wear full-facepiece supplied air respirator for fumes.

ENGINEERING CONTROLS: General ventilation. Use local exhaust ventilation and enclosed processes as necessary to control processing dusts and fumes when heating.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	Black rubbery solid
<b>ODOR:</b>	Characteristic (rubber)
<b>BOILING POINT:</b>	Not Applicable
<b>VAPOR PRESSURE:</b>	Negligible
<b>LIQUID DENSITY:</b>	No Data
<b>SOLUBILITY IN WATER:</b>	Negligible
<b>SPECIFIC GRAVITY:</b>	1.17 (approximate)
<b>MELTING POINT:</b>	No Data
<b>pH:</b>	Essentially neutral
<b>% VOLATILE:</b>	0

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable.

**INCOMPATIBLE MATERIALS/CONDITIONS:** Strong oxidizers. Do not overheat.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Depending on conditions, thermal decomposition may produce sulfur oxides, hydrogen cyanide, nitrogen oxides, ammonia, hydrocarbon carbon oxide, and other oxidation products.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**INHALATION:** Processing fumes may cause irritation. Equipment failure and overheating may cause partial decomposition. The composition of the fumes released is determined by the conditions. Cyanides emitted by neoprene rubber decomposition are toxic and may adversely affect the central nervous system, lungs, and thyroid.

**SKIN:** Sensitive individuals may develop dermatitis with repeated contact. Cyanide compounds that may be produced from decomposition are toxic if absorbed through the skin.

**EYE:** Processing fumes may cause irritation.

**CHRONIC:** Rubber contains carbon black and small amounts of quartz. Although release of these ingredients is not expected, repeated inhalation of carbon black and quartz over time can cause lung disease and increase the risks of developing cancer.

Chronic ingestion of Di(2-ethylhexyl)adipate has resulted in hepatocellular carcinomas female mice and hepatocellular adenomas in male mice but not in rats. Skin application of 1,2-dihydro-2,2,4-trimethylquinoline resin has caused liver damage in rats.

**OTHER:** This product contains additives and plasticizers, (1,2-dihydro-2,2,4-trimethylquinoline and bis(2-ethylhexyl)adipate) that may adversely affect the embryo, fetus, and pregnancy outcome based on data in experimental animals.

**12. ECOLOGICAL INFORMATION**

Does not contain Class I or II ozone depleting substances. Ecotoxicity information for complex mixture was unavailable. Not expected to be highly mobile or biodegrade readily due to low water solubility.

**13. DISPOSAL CONSIDERATIONS**

Recycle, reclaim and dispose of in accordance with applicable local, state and federal regulations. Dispose per CFR Part



# Cooper Industries/Crouse-Hinds Molded Products: MSDS for Unvulcanized Nitrile Rubber #0384

261 and 262. Incineration may produce toxic gases.

## 14. TRANSPORT INFORMATION

**DOT PROPER SHIPPING NAME:** Not defined as a hazardous material

## 15. REGULATORY INFORMATION

WHMIS CLASSIFICATION: D2B, D2A (dusts, fumes)

SARA HAZARD CLASSES: Acute Health Hazard  
Chronic Health Hazard (dusts only)

SARA TITLE III – SECTION 313 SUPPLIER NOTIFICATION: This product does not contain toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and 40 CFR 372.

SARA 304 (CERCLA): As supplied, this product does not contain chemicals subject to reporting to the National Response Center under CERCLA, Section 304, SARA Title III.

CALIFORNIA PROPOSITION 65: This product contains ingredients known to the State of California to cause cancer, birth defects, or other reproductive harm.

TSCA/DSL: All intentional ingredients are listed on the U.S. Toxic Substances Control Act (TSCA) inventory, exempt from listing or sold under an exemption and on the Canadian Domestic Substances List.

## 16. OTHER INFORMATION

### KEY:

ACGIH:	American Conference of Governmental Industrial Hygienists
C:	Ceiling
CAS:	Chemical Abstracts Service
DOT:	Department of Transportation
DSL:	Domestic Substance List
IARC:	International Agency for Research on Cancer
MSHA:	Mine Safety and Health Administration
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
SARA:	Superfund Amendment and Reauthorization Act
STEL:	Short-Term Exposure Limit
TDG:	Transportation of Dangerous Goods
TLV:	Threshold Limit Value
TSCA:	Toxic Substances Control Act
WHMIS:	Workplace Hazardous Materials Information System

### DISCLAIMER

The information in this MATERIAL SAFETY DATA SHEET should be provided to all who will use, handle, store, transport, or otherwise be exposed to this material. This information has been prepared for the guidance of plant engineering, operations and management, and for persons working with or handling this material. Cooper Industries/Crouse-Hinds Division believes this information to be reliable and up-to-date as of the date of publication, but

makes no warranty that it is.

**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>COMMON NAME:</b>	319763-3, Neoprene Cement		
<b>CHEMICAL NAME:</b>	Neoprene Rubber and Solvent Mixture		
<b>FORMULA:</b>	Mixture		
<b>PRODUCT CAS NO.:</b>	Mixture		
<b>SUPPLIER:</b>	Cooper Industries/Crouse-Hinds Molded Products		
<b>ADDRESS:</b>	4758 East Washington Street		
<b>CITY, STATE, ZIP:</b>	La Grange, NC 28551		
<b>PHONE:</b>	(252) 566-3014	<b>EMERGENCY PHONE: 1-800-424-9300 (CHEMTREC)</b>	

**2. HAZARDOUS INGREDIENTS: COMPOSITION/INFORMATION**

INGREDIENT	% WEIGHT	PEL-OSHA	TLV-ACGIH	LD <sub>50</sub> /LC <sub>50</sub> ROUTE/SPECIES
Xylene CAS: 1330-20-7	60-100	100 ppm	100 ppm 150 ppm (STEL)	LC <sub>50</sub> : 6,350 ppm inhalation/rat (4 H)
Ethylbenzene CAS: 100-41-4	10-20	100 ppm	100 ppm 125 ppm (STEL)	LD <sub>50</sub> : 3,500 mg/kg oral/rat
Neoprene CAS: 9010-98-4	5-10	None Established	None Established	No Data
Kaolin CAS: 1332-58-7	5-10	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	2 mg/m <sup>3</sup> <sup>1</sup> (respirable)	No Data
Carbon Black CAS No.: 1333-86-4	1-5	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	No Data
Toluene CAS: 108-88-3	0.1-1	200 ppm 300 ppm (C) 500 ppm <sup>2</sup>	50 ppm	LC <sub>50</sub> : 5,320 ppm inhalation/mouse (8 H)
Quartz CAS: 14808-60-7	0.1-1	[10 mg/m <sup>3</sup> / (%SiO <sub>2</sub> +2) (resp.) [30 mg/m <sup>3</sup> / (%SiO <sub>2</sub> +2) (total)	0.05 mg/m <sup>3</sup> (respirable)	No Data

<sup>1</sup> Value is for particulate matter containing no asbestos and < 1% crystalline silica.

<sup>2</sup> Acceptable 10-minute maximum peak above the ceiling concentration for an 8-hour shift.

OSHA Regulatory Status: Fumes from this material are classified as hazardous under OSHA regulations.

**3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

Flammable black liquid that may cause eye, skin, and respiratory irritation. Inhalation may cause central nervous system (CNS) depression. Contains small amounts of toluene, a substances that may cause birth defects at high concentrations. Dangerous fire and explosion hazard. Avoid heat, sparks, and flames. Store in cool area. Use only with adequate ventilation.



**POTENTIAL HEALTH EFFECTS**

**EYE:** Vapors may cause irritation and splashes may cause temporary damage to the surface of the eye.

**SKIN:** Repeated contact can dry and defat the skin causing redness, peeling and cracking. May cause allergic skin reaction (dermatitis) in sensitive workers.

**INHALATION:** Inadequate ventilation may result in overexposure to solvents. Inhalation of high vapor concentrations can cause respiratory irritation and CNS depression. Neoprene has caused temporary hair loss in humans.

**CHRONIC:** Epidemiologic studies among rubber products workers has noted excess deaths from various cancers.

**CARCINOGENICITY:** IARC: Yes NTP: Yes OSHA: Yes

IARC lists the rubber industry as an exposure circumstance that "entails exposures that are carcinogenic to humans". Fillers in this product contain small amounts of quartz, an ingredient classified as a confirmed human carcinogen by IARC and NTP and regulated under 29 CFR 1910.1200 by OSHA. This product also contains carbon black, a substance that has caused cancer in experimental animals and is classified as a possible human carcinogen by IARC (Group 2B). These ingredients are bound, and release is not expected under normal conditions. IARC classifies ethylbenzene as a possible human carcinogen (Group 2B).

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Irritant properties may aggravate pre-existing eye, skin, and respiratory conditions.

**SIGNS AND SYMPTOMS:** CNS depression may cause dizziness, excitement, drowsiness, staggering, nausea, and vomiting. Continued overexposure may result in unconsciousness and death.

**TARGET ORGANS:** Eyes, skin, respiratory system, CNS

**4. FIRST AID MEASURES**

**EYE CONTACT:** Immediately flush eyes with lukewarm water for at least 15 minutes. If irritation persists, consult an ophthalmologist.

**SKIN:** Remove contaminated clothing and wash skin thoroughly with soap and water. If irritation persists or rashes occur, get medical attention.

**INHALATION:** Immediately remove to fresh air. If breathing problems occur, give supplemental oxygen or artificial respiration as indicated. Get immediate medical attention.

**OTHER:** If accidental ingestion occurs, DO NOT INDUCE VOMITING due to potential for aspiration and/or CNS depression. Consult a physician.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

**FLASH POINT:** 80 °F/26 °C (TCC)\*

**FLAMMABLE LIMITS:** LEL: 1.0\* UEL: 6.6\*

**NFPA HAZARD CLASSIFICATION:**

**HEALTH:** 2 **FLAMMABILITY:** 3 **INSTABILITY:** 0

\* Manufacturer's values for the solvent.

**EXTINGUISHING MEDIA:** Dry chemical, foam, carbon dioxide or water spray. Water may be ineffective due to low flashpoint. Use water spray to cool surrounding materials.

**FIRE AND EXPLOSION HAZARDS:** Flammable liquid. May accumulate static electricity. Dangerous fire and explosion hazard. Avoid heat, sparks, and flames. Vapors are heavier than air and may collect in low-lying areas or travel a distance along the ground to an ignition source and flash back. Xylene floats on water and may travel to an ignition source and spread fire. Container may rupture violently from pressure when heated. Thermal decomposition may form carbon oxides,

## Cooper Industries/Crouse-Hinds Molded Products: MSDS for Neoprene Cement #0387

hydrocarbons, hydrogen chloride, aldehydes, organic acids, sulfur compounds, chloroprene, and other oxidation products.

### 15. FIREFIGHTING MEASURES (continued)

**FIRE FIGHTING INSTRUCTIONS:** Firefighters should wear a NIOSH-approved, full-facepiece self-contained breathing apparatus (SCBA) operated in positive pressure mode and full turnout or bunker gear with additional chemical protective clothing as necessary to protect against thermal decomposition products. Continue to cool fire-exposed containers until well after flames are extinguished. Move containers from fire area if it can be done without risk. Dike run-off waters from firefighting for later disposal.

### 6. ACCIDENTAL RELEASE MEASURES

Immediately extinguish all ignition sources and isolate area of spill. No smoking, sparks, flares or flames in hazard area. Stop or control the leak if it can be done without risk. Wear appropriate personal protective equipment (See Section 8) and deny entry to unauthorized and unprotected personnel. Use water spray or vapor suppressing foam as necessary to control vapors. Absorb small amounts in suitable inert sorbent material and carefully scoop or shovel into clean, dry, tightly closed container for later disposal. Dike well ahead of large spills for later recycle or disposal. Prevent entry into waterways and sewers. Run-off to sewer may cause fire or explosion. Use clean, non-sparking tools to collect spilled materials.

### 7. HANDLING AND STORAGE

Store in cool, dry, well-ventilated area. Handle and store as a flammable liquid. Detached storage is preferred. Storage containers should be clearly labeled, kept upright and tightly closed.

Use only in well ventilated areas. Keep away from oxidizers, incompatible materials, heat, and other ignition sources. There should be no source for accidental ignition in work and storage areas. Immediately close containers after use. Use non-sparking tools. Five-gallon and larger containers should be grounded and/or bonded before pouring or otherwise transferring material. May become electrostatically charged during mixing, filtering or pumping at high flow rates. Sufficient charges may cause sparks that can ignite vapors. Sudden release of hot organic mists or vapors from process equipment operating at elevated temperature and pressure or sudden entry of air into vacuum equipment may cause ignition without presence of obvious ignition sources. Evaluate all elevated temperature processes thoroughly to maintain safe operating conditions.

Empty containers may contain flammable product residue and vapors and should be handled and stored appropriately. Do not heat, cut, or weld on or near empty containers. Do not re-use containers unless properly cleaned and re-conditioned. Wear appropriate protective equipment. Use proper handling procedures for any ingredients added to this product.

Neoprene may form small amounts of N-nitrosodiethylamine and N-nitrosodibutylamine during processing and curing. (Contact with some nitrogen compounds may produce hazardous levels – See Section 10). These substances are carcinogenic and have been associated with reproductive, teratogenic, and mutagenic effects in experimental studies. Use appropriate control measures.

Avoid skin and eye contact. Do not inhale. Intentional concentration and inhalation of vapors can be harmful or fatal. Do not eat, drink, smoke, or apply cosmetics in work areas. Do not store personal items in work areas. Wash hands before eating, drinking, smoking, and breaks.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**RESPIRATORY PROTECTION:** Under normal working conditions below acceptable exposure guidelines, none required. Respiratory protection is dependent upon conditions and magnitude of exposure. Select NIOSH-approved respirators in accordance with 29 CFR 1910.134.

**SKIN PROTECTION:** Protective polyvinyl alcohol gloves worn with additional protective clothing (boots, apron, etc.) as necessary to prevent irritation.

**EYE PROTECTION:** Protective goggles. Full-facepiece supplied air respirator for high concentrations.

**ENGINEERING CONTROLS:** General ventilation used in combination with local exhaust and enclosed processes as necessary to control air contaminants to at or below acceptable exposure guidelines.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	Black liquid
<b>ODOR:</b>	Sweet, aromatic (xylene)
<b>BOILING POINT:</b>	137.2 °C (279 °F)*
<b>VAPOR PRESSURE:</b>	9.000 mm Hg@ 68 °F*
<b>LIQUID DENSITY:</b>	0.870 kg/l @ 16 °C (7.250 lbs/gal @ 60 °F)*
<b>SOLUBILITY IN WATER:</b>	< 0.08%
<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b>	No Data
<b>MELTING POINT:</b>	- 47.7 °C (-54.0 °F)*
<b>pH:</b>	Essentially neutral
<b>% VOLATILE:</b>	> 75

\* Chemical and physical properties are for the solvent in the cement/solvent mixture.

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable.

**INCOMPATIBLE MATERIALS/CONDITIONS:** Incompatible with strong oxidizers and strong acids. Avoid heat, sparks, and flames. Neoprene rubber may produce nitrosamines during hot processing or when in contact with nitrates, nitrites, nitrogen oxides or nitrosamines. Salt bath curing (using nitrate/nitrite salts) may produce hazardous amounts of volatile nitrosamines.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition products depend upon conditions and may include hydrogen chloride, sulfur compounds, carbon oxides, aldehydes, organic acids, chloroprene and other oxidation products.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**INHALATION:** High concentrations of solvents can cause respiratory irritation and CNS depression. An L<sub>50</sub> of 6,350 ppm/4 H has been cited for xylene (rat). Inhalation of 9150 ppm ethylbenzene caused death in 2 hours in mice.

**SKIN:** Repeated or prolonged contact may dry or defat the skin causing cracks and secondary infection. Sensitive individuals may develop dermatitis with repeated contact.

**EYE:** Ethylbenzene causes severe eye irritation at 2000 ppm and irritation becomes intolerable at 5000 ppm. Xylene causes less severe irritation (specific values were unavailable).

**CHRONIC:** Ethylbenzene has caused cancer in laboratory animals and is classified as a possible human carcinogen by IARC. In a 2-year ethylbenzene inhalation study (6 H/day; 5 days/week for 104 weeks), there was clear evidence of carcinogenic activity of ethylbenzene in male F344/N rats that inhaled 750 ppm and some evidence of carcinogenic activity in female rats and in male and female B6C3F1 mice (at 750 ppm).

Rubber contains carbon black and small amounts of quartz. Although release of these ingredients is not expected, repeated inhalation of carbon black and quartz over time can cause lung disease and increase the risks of developing cancer. Repeated over-exposure to n-nitrosamines during curing processes may adversely affect the fetus, reproductive system and increase the risks of developing cancer.

**OTHER:** Studies indicate that toluene may increase the risk of miscarriage and adversely affect fetal development. Ethylbenzene and xylene have caused birth defects at high concentrations in experimental animals; however studies are inconclusive.

**12. ECOLOGICAL INFORMATION**

Does not contain Class I or II ozone depleting substances. Ecotoxic effects are expected to resemble those seen in humans



# Cooper Industries/Crouse-Hinds Molded Products: MSDS for Neoprene Cement #0387

and test animals.

## 13. DISPOSAL CONSIDERATIONS

Recycle, reclaim and dispose of in accordance with applicable local, state and federal regulations. Dispose per CFR Part 261 and 262. Incineration may produce toxic gases.

## 14. TRANSPORT INFORMATION

**DOT PROPER SHIPPING NAME:** Adhesives, containing a flammable liquid  
**HAZARD CLASS:** 3  
**IDENTIFICATION NUMBER:** UN 1133  
**SHIPPING LABEL:** FLAMMABLE LIQUID  
**PACKING GROUP:** III

## 15. REGULATORY INFORMATION

WHMIS CLASSIFICATION: B3, D2A, D2B

SARA HAZARD CLASSES (dusts and fumes): Acute Health Hazard  
Chronic Health Hazard  
Fire Hazard

SARA TITLE III – SECTION 313 SUPPLIER NOTIFICATION: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and 40 CFR 372:

Chemical	CAS Number	% Weight
Xylene	1330-20-7	65-100
Ethylbenzene	100-41-4	10-20

SARA 304 (CERCLA): Xylene and ethylbenzene are reportable under CERCLA Section 304, Title III, with respective reportable quantities (RQs) of 100 and 1000 pounds.

CALIFORNIA PROPOSITION 65: This product contains ingredients known to the State of California to cause cancer, birth defects, or other reproductive harm.

TSCA/DSL: All ingredients are listed on the U.S. Toxic Substances Control Act (TSCA) inventory, exempt from listing or sold under an exemption.

## 16. OTHER INFORMATION

KEY:

ACGIH: American Conference of Governmental Industrial Hygienists  
C: Ceiling  
CAS: Chemical Abstracts Service  
DOT: Department of Transportation  
DSL: Domestic Substance List  
IARC: International Agency for Research on Cancer  
MSHA: Mine Safety and Health Administration  
NFPA: National Fire Protection Association  
NIOSH: National Institute for Occupational Safety and Health  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible Exposure Limit  
SARA: Superfund Amendment and Reauthorization Act  
STEL: Short Term Exposure Limit  
TDG: Transportation of Dangerous Goods  
TLV: Threshold Limit Value  
TSCA: Toxic Substances Control Act

**DISCLAIMER**

The information in this MATERIAL SAFETY DATA SHEET should be provided to all who will use, handle, store, transport, or otherwise be exposed to this material. This information has been prepared for the guidance of plant engineering, operations and management, and for persons working with or handling this material. Cooper Industries/Crouse-Hinds Division believes this information to be reliable and up-top-date as of the date of publication, but makes no warranty that it is.

**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>COMMON NAME:</b>	319756-3, Natural Rubber Cement		
<b>CHEMICAL NAME:</b>	Natural Rubber and Solvent Mixture		
<b>FORMULA:</b>	Mixture		
<b>PRODUCT CAS NO.:</b>	Mixture		
<b>SUPPLIER:</b>	Cooper Industries/Crouse-Hinds Molded Products		
<b>ADDRESS:</b>	4758 East Washington Street		
<b>CITY, STATE, ZIP:</b>	La Grange, NC 28551		
<b>PHONE:</b>	(252) 566-3014	<b>EMERGENCY PHONE: 1-800-424-9300 (CHEMTREC)</b>	

**2. HAZARDOUS INGREDIENTS: COMPOSITION/INFORMATION**

INGREDIENT	% WEIGHT	PEL-OSHA	TLV-ACGIH	LD <sub>50</sub> /LC <sub>50</sub> ROUTE/SPECIES
Xylene CAS: 1330-20-7	60-100	100 ppm	100 ppm 150 ppm (STEL)	LC <sub>50</sub> : 6,350 ppm inhalation/rat (4 H)
Ethylbenzene CAS: 100-41-4	10-20	100 ppm	100 ppm 125 ppm (STEL)	LD <sub>50</sub> : 3,500 mg/kg oral/rat
Natural Rubber CAS: 9010-98-4	7-13	None Established	None Established	No Data
Carbon Black CAS No.: 1333-86-4	1-5	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	No Data
Toluene CAS: 108-88-3	0.1-1	200 ppm 300 ppm (C) 500 ppm*	50 ppm	LC <sub>50</sub> : 5,320 ppm inhalation/mouse (8 H)

\* Acceptable 10-minute maximum peak above the ceiling concentration for an 8-hour shift.

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

**3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

Flammable black liquid that may cause eye, skin, and respiratory irritation. Inhalation may cause central nervous system (CNS) depression. Contains small amounts of toluene, a substances that may cause birth defects at high concentrations. Dangerous fire and explosion hazard. Avoid heat, sparks, and flames. Store in cool area. Use only with adequate ventilation.



**POTENTIAL HEALTH EFFECTS**

**EYE:** Vapors may cause irritation. Splashes may cause temporary damage to the surface of the eye.

**SKIN:** Repeated contact can dry and defat the skin causing redness, peeling and cracking. May cause allergic skin reaction (dermatitis) in sensitive workers.

**INHALATION:** Inadequate ventilation may result in overexposure to solvents. Inhalation of high vapor concentrations can cause respiratory irritation and CNS depression.

**CHRONIC:** Epidemiologic studies among rubber products workers has noted excess deaths from various cancers.

**CARCINOGENICITY:** IARC: Yes NTP: Yes OSHA: Yes

IARC lists the rubber industry as an exposure circumstance that "entails exposures that are carcinogenic to humans". This product contains carbon black, a substance that has caused cancer in experimental animals and is classified as a possible human carcinogen by IARC (Group 2B). Carbon black is bound in a rubber matrix and release is not expected under normal conditions. IARC classifies ethylbenzene as a possible human carcinogen (Group 2B).

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Irritant properties may aggravate pre-existing eye, skin, and respiratory conditions.

**SIGNS AND SYMPTOMS:** CNS depression may cause dizziness, excitement, drowsiness, staggering, nausea, and vomiting. Continued overexposure may result in unconsciousness and death.

**TARGET ORGANS:** Eyes, skin, respiratory system, CNS

**4. FIRST AID MEASURES**

**EYE CONTACT:** Immediately flush eyes with lukewarm water for at least 15 minutes. If irritation persists, consult an ophthalmologist.

**SKIN:** Remove contaminated clothing and wash skin thoroughly with soap and water. If irritation persists or rashes occur, get medical attention.

**INHALATION:** Immediately remove to fresh air. If breathing problems occur, give supplemental oxygen or artificial respiration as indicated and obtain immediate medical attention.

**OTHER:** If accidental ingestion occurs, DO NOT INDUCE VOMITING due to potential for aspiration and/or CNS depression. Consult a physician.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

**FLASH POINT:** 80 °F/26 °C (TCC)\*

**FLAMMABLE LIMITS:** LEL: 1.0\* UEL: 6.6\*

**NFPA HAZARD CLASSIFICATION:**

**HEALTH:** 2 **FLAMMABILITY:** 3 **INSTABILITY:** 0

\* Data given are the manufacturer's values for the solvent.

**EXTINGUISHING MEDIA:** Dry chemical, foam, carbon dioxide or water spray. Water may be ineffective to fight fire due to low flashpoint, but may be used to cool surrounding materials.

**FIRE AND EXPLOSION HAZARDS:** Flammable liquid. May accumulate static electricity. Dangerous fire and explosion hazard. Avoid heat, sparks, and flames. Vapors are heavier than air and may collect in low-lying areas or travel a distance along the ground to an ignition source and flash back. Xylene floats on water and may travel to an ignition source and spread fire. Container may rupture violently from pressure when heated. Thermal decomposition may form carbon oxides, hydrocarbons, isoprene derivatives, sulfur compounds, and other oxidation products.

**15. FIREFIGHTING MEASURES (continued)**

**FIRE FIGHTING INSTRUCTIONS:** Firefighters should wear a NIOSH-approved, full-facepiece self-contained breathing apparatus (SCBA) operated in positive pressure mode and full turnout or bunker gear with additional chemical protective clothing as necessary to protect against thermal decomposition products. Continue to cool fire-exposed containers until well after flames are extinguished. Move containers from fire area if it can be done without risk. Dike run-off waters from firefighting for later disposal.

**6. ACCIDENTAL RELEASE MEASURES**

Immediately extinguish all ignition sources and isolate area of spill. No smoking, sparks, flares or flames in hazard area. Stop or control the leak if it can be done without risk. Wear appropriate personal protective equipment (See Section 8) and deny entry to unauthorized and unprotected personnel. Use water spray or vapor suppressing foam as necessary to control vapors. Absorb small amounts in suitable inert sorbent material and carefully scoop or shovel into clean, dry, tightly closed container for later disposal. Dike well ahead of large spills for later recycle or disposal. Prevent entry into waterways and sewers. Run-off to sewer may cause fire or explosion. Use clean, non-sparking tools to collect spilled materials.

**7. HANDLING AND STORAGE**

Store in cool, dry, well-ventilated area. Handle and store as a flammable liquid. Detached storage is preferred. Storage containers should be clearly labeled, kept upright and tightly closed.

Use only in well ventilated areas. Keep away from oxidizers, incompatible materials, heat, and other ignition sources. There should be no source for accidental ignition in work and storage areas. Immediately close containers after use. Use non-sparking tools. Five-gallon and larger containers should be grounded and/or bonded before pouring or otherwise transferring material. Cement may become electrostatically charged during mixing, filtering or pumping at high flow rates. Sufficient charges may cause sparks that can ignite vapors. Sudden release of hot organic mists or vapors from process equipment operating at elevated temperature and pressure or sudden entry of air into vacuum equipment may cause ignition without presence of obvious ignition sources. Evaluate all elevated temperature processes thoroughly to maintain safe operating conditions.

Empty containers may contain flammable product residue and vapors and should be handled and stored appropriately. Do not heat, cut, or weld on or near empty containers. Do not re-use containers unless properly cleaned and re-conditioned. Wear appropriate protective equipment. Use proper handling procedures for any ingredients added to this product.

Avoid skin and eye contact. Do not inhale. Intentional concentration and inhalation of vapors can be harmful or fatal. Do not eat, drink, smoke, or apply cosmetics in work areas. Do not store personal items in work areas. Wash hands before eating, drinking, smoking, and breaks.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:** Under normal working conditions below acceptable exposure guidelines, none required. Respiratory protection is dependent upon conditions and magnitude of exposure. Select NIOSH-approved respirators in accordance with 29 CFR 1910.134.

**SKIN PROTECTION:** Protective polyvinyl alcohol gloves worn with additional protective clothing (boots, apron, etc.) as necessary to prevent irritation.

**EYE PROTECTION:** Protective goggles. Full-facepiece supplied air respirator for high concentrations.

**ENGINEERING CONTROLS:** General ventilation used in combination with local exhaust and enclosed processes as necessary to control air contaminants to at or below acceptable exposure guidelines.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	Black liquid
<b>ODOR:</b>	Sweet, aromatic (xylene)
<b>BOILING POINT:</b>	137.2 °C (279 °F)*
<b>VAPOR PRESSURE:</b>	9.000 mm Hg@ 68 °F*
<b>LIQUID DENSITY:</b>	0.870 kg/l @ 16 °C (7.250 lbs/gal @ 60 °F)*
<b>SOLUBILITY IN WATER:</b>	< 0.08%
<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b>	No Data
<b>MELTING POINT:</b>	- 47.7 °C (-54.0 °F)*
<b>pH:</b>	Essentially neutral
<b>% VOLATILE:</b>	> 75

\* Chemical and physical properties are for the solvent in the cement/solvent mixture.

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable.

**INCOMPATIBLE MATERIALS/CONDITIONS:** Incompatible with strong oxidizers. Avoid heat, sparks, and flames.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition products depend upon conditions and may include various hydrocarbons, isoprene derivatives, sulfur compounds, carbon oxides and other oxidation products.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**INHALATION:** High concentrations of solvents can cause respiratory irritation and CNS depression. An L<sub>50</sub> of 6,350 ppm/4 H has been cited for xylene (rat). Inhalation of 9150 ppm ethylbenzene caused death in 2 hours in mice.

**SKIN:** Repeated or prolonged contact may dry or defat the skin causing cracks and secondary infection. Sensitive individuals may develop dermatitis with repeated contact.

**EYE:** Ethylbenzene causes severe eye irritation at 2000 ppm and irritation becomes intolerable at 5000 ppm. Xylene causes less severe irritation (specific values were unavailable).

**CHRONIC:** Ethylbenzene has caused cancer in laboratory animals and is classified as a possible human carcinogen by IARC. In a 2-year ethylbenzene inhalation study (6 H/day; 5 days/week for 104 weeks), there was clear evidence of carcinogenic activity of ethylbenzene in male F344/N rats that inhaled 750 ppm ethyl benzene and some evidence of carcinogenic activity in female rats and in male and female B6C3F1 mice (at 750 ppm).

Rubber contains carbon black. Although release of these ingredients is not expected, repeated inhalation of carbon black can affect the lungs and may increase risks of developing cancer.

**OTHER:** Studies indicate that toluene may increase the risk of miscarriage and adversely affect fetal development. Ethylbenzene and xylene have caused birth defects at high concentrations in experimental animals; however studies are inconclusive.

**12. ECOLOGICAL INFORMATION**

Does not contain Class I or II ozone depleting substances. Ecotoxic effects are expected to resemble those seen in humans and test animals.



**13. DISPOSAL CONSIDERATIONS**

Recycle, reclaim and dispose of in accordance with applicable local, state and federal regulations. Dispose per CFR Part 261 and 262. Incineration may produce toxic gases.

**14. TRANSPORT INFORMATION**

**DOT PROPER SHIPPING NAME:** Adhesives, containing a flammable liquid  
**HAZARD CLASS:** 3  
**IDENTIFICATION NUMBER:** UN 1133  
**SHIPPING LABEL:** FLAMMABLE LIQUID  
**PACKING GROUP:** III

**15. REGULATORY INFORMATION**

WHMIS CLASSIFICATION: B3, D2A, D2B

SARA HAZARD CLASSES (dusts and fumes): Acute Health Hazard  
 Chronic Health Hazard  
 Fire Hazard

SARA TITLE III – SECTION 313 SUPPLIER NOTIFICATION: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and 40 CFR 372:

Chemical	CAS Number	% Weight
Xylene	1330-20-7	60-100
Ethylbenzene	100-41-4	5-10

SARA 304 (CERCLA): Xylene and ethylbenzene are reportable under CERCLA Section 304, Title III, with respective reportable quantities (RQs) of 100 and 1000 pounds.

CALIFORNIA PROPOSITION 65: This product contains ingredients known to the State of California to cause cancer, birth defects, or other reproductive harm.

**16. OTHER INFORMATION**

KEY:

ACGIH: American Conference of Governmental Industrial Hygienists  
 C: Ceiling  
 CAS: Chemical Abstracts Service  
 DOT: Department of Transportation  
 DSL: Domestic Substance List  
 IARC: International Agency for Research on Cancer  
 MSHA: Mine Safety and Health Administration  
 NFPA: National Fire Protection Association  
 NIOSH: National Institute for Occupational Safety and Health  
 NTP: National Toxicology Program  
 OSHA: Occupational Safety and Health Administration  
 PEL: Permissible Exposure Limit  
 SARA: Superfund Amendment and Reauthorization Act  
 STEL: Short-Term Exposure Limit  
 TDG: Transportation of Dangerous Goods  
 TLV: Threshold Limit Value  
 TSCA: Toxic Substances Control Act  
 WHMIS: Workplace Hazardous Materials Information System

**DISCLAIMER**

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## POWER CABLE, 600V, 3 CONDUCTOR, YELLOW, TYPE SOOW CABLE

### ORDERING INFORMATION:

GM LEGACY ITEM NO.	GM NACCL ITEM NO.	CROUSE-HINDS PART NO.	LENGTH
455	2740	601733-9	METERS

### TECHNICAL DATA:

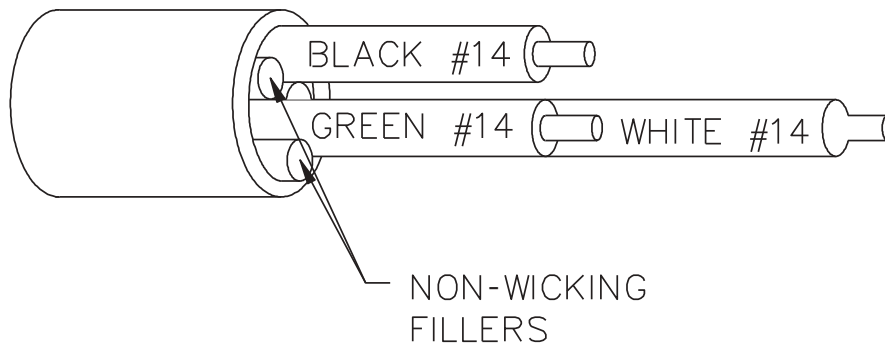
VOLTAGE	600V
AMPERAGE	18A
TEMPERATURE RANGE	-50°C TO 105°C



### MATERIAL DATA:

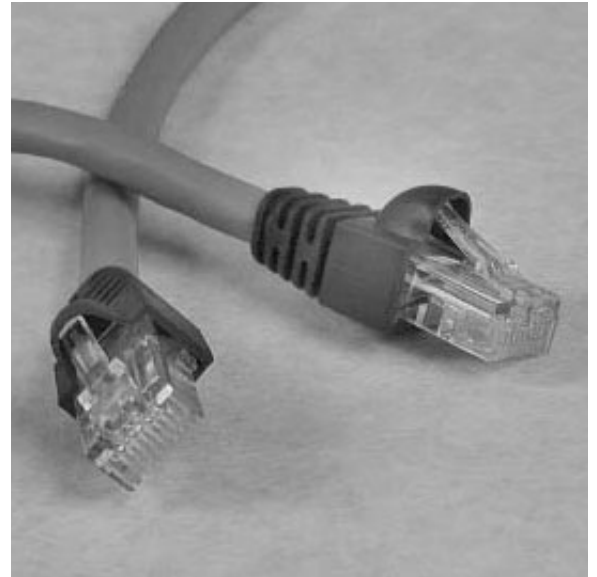
JACKETING	OIL-RESISTANT THERMOSET CPE, YELLOW
CONDUCTORS	ANNEALED COPPER 14/3
STRANDING	41 X 30
INSULATION	COLOR-CODED SYNTHETIC OIL, OZONE, AND WATER RESISTANT RUBBER EPDM
DIAMETER	OUTSIDE DIAMETER .524"

- UL Recognition File #E 7362
- CSA Certification File #LR 8825





# RJ45 PLUG TO RJ45 PLUG PATCH CORDS, CAT5e CABLE, #24 AWG



**ORDERING INFORMATION:**

GM NACCL ITEM NO.	CROUSE-HINDS PART NO.	LENGTH
1872	1317732D-14	0.5M
1865	1317732D-1	1M
1866	1317732D-2	2M
1867	1317732D-3	3M
1868	1317732D-4	4M
1869	1317732D-5	5M

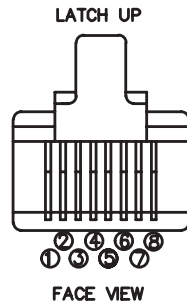
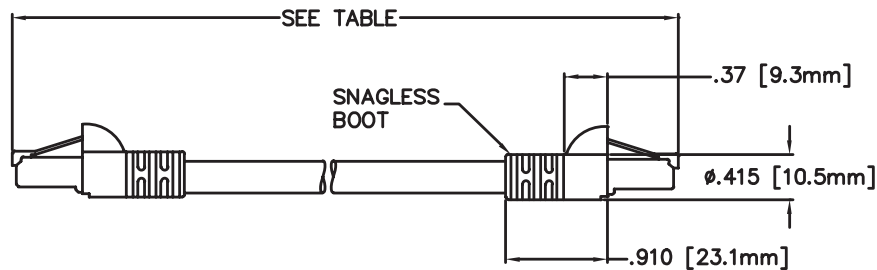
**TECHNICAL DATA:**

VOLTAGE	60V
AMPERAGE	2A
DIELECTRIC WITHSTAND	1000VDC
CONTACT RESISTANCE	<5mΩ

**MATERIAL DATA:**

HOUSING	POLYCARBONATE
HOUSING MATERIAL	UL 94V-2
FLAMMABILITY RATING	
CABLE	CAT5e, #24 AWG PVC TEAL JACKETED, TINNED 7 #32, DIA. .256"±.020"
CONTACTS	PHOSPHOR BRONZE
CONTACT PLATING	50 μIN. GOLD OVER NICKEL
CONTACT TERMINATION PLATING	GOLD FLASH OVER NICKEL
SNAGLESS BOOT	BLACK POLYOLEFIN

• Meets TIA 568-B.2



**WIRING TABLE**

POSITION	COLOR
1	WHT/ORN
2	ORN
3	WHT/GRN
4	BLU
5	WHT/BLU
6	GRN
7	WHT/BRN
8	BRN

**MALE-IN-LINE STRAIGHT TO FEMALE STRAIGHT MINI-LINE®  
CONNECTOR, DEVICENET DROP, FLEXIBLE CABLE, 5-POLE**

**ORDERING INFORMATION:**

GM NACCL ITEM NO.	CROUSE-HINDS PART NO.	LENGTH
2585	5000111-581R	1M
2586	5000111-584R	2M
2587	5000111-588R	3M
2588	5000111-585R	4M
2589	5000111-589R	6M

**TECHNICAL DATA:**

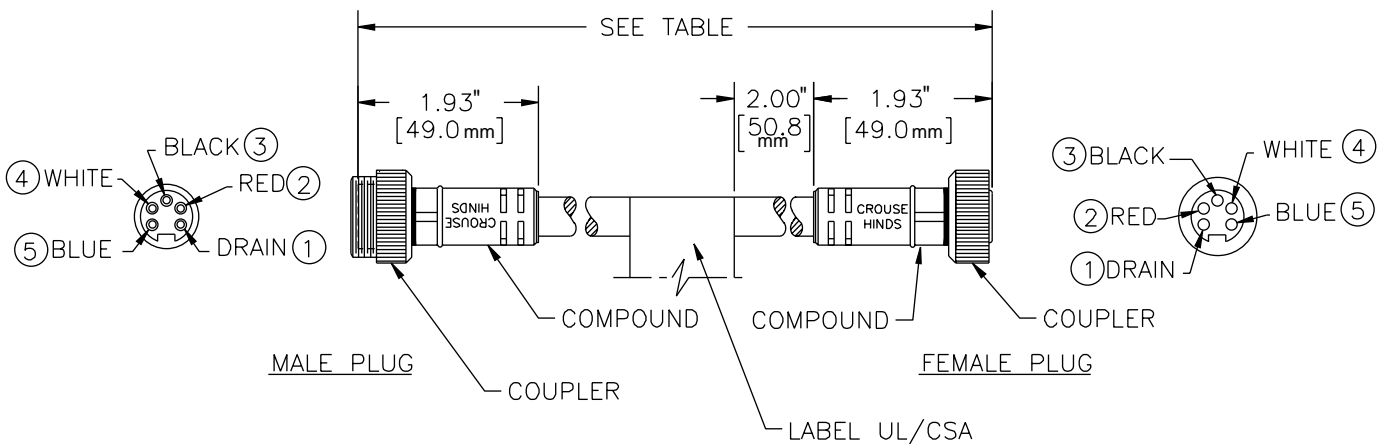
VOLTAGE	300V
AMPERAGE	3A
DIELECTRIC WITHSTAND	1600VAC
CONTACT RESISTANCE	<5mΩ
TEMPERATURE RANGE	-20°C TO 75°C
PROTECTION	NEMA 1, 3, 4, 6P, AND 13; IEC IP 68
CORROSION RESISTANCE	1000 HR. SALT SPRAY
HIGH-PRESSURE WATER TEST	1200 P.S.I. SPRAY



**MATERIAL DATA:**

BODY	BLACK 80A DURO. FLAME RES. PVC
CABLE	GRAY HIGH-FLEX DEVICENET DROP CABLE, DIAMETER .280" ± .010"
CONTACTS	MACHINED BRASS
CONTACT PLATING	30 μIN. GOLD OVER 50 μIN. NICKEL
COUPLING NUT	DIE-CAST ZAMAK 5 W/BLACK EPOXY COAT

- UL Recognition File #E 169897
- CSA Certification File #LR 13963
- Meets current SAE #H 1738-2 Specifications



# RJ45 PLUG TO FEMALE MICRO-MINI RECEPTACLE, FEMALE BACKMOUNT, INTERNAL THREAD, CAT5e CABLE, DC SINGLE KEY, 8-POLE

## ORDERING INFORMATION:

GM NACCL ITEM NO.	CROUSE-HINDS PART NO.	LENGTH
1871	5000135-100	0.5M
1860	5000135-95	1M
1861	5000135-96	2M
1862	5000135-97	3M
1863	5000135-98	4M
1864	5000135-99	5M

## TECHNICAL DATA:

VOLTAGE	60V
AMPERAGE	2A
DIELECTRIC WITHSTAND	1000VDC
CONTACT RESISTANCE	<5mΩ
PROTECTION	IP 68 MICRO END

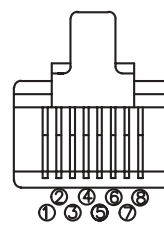
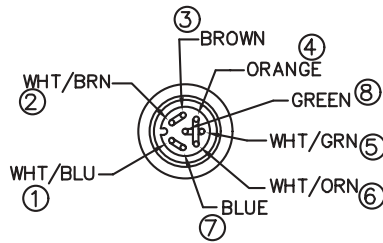
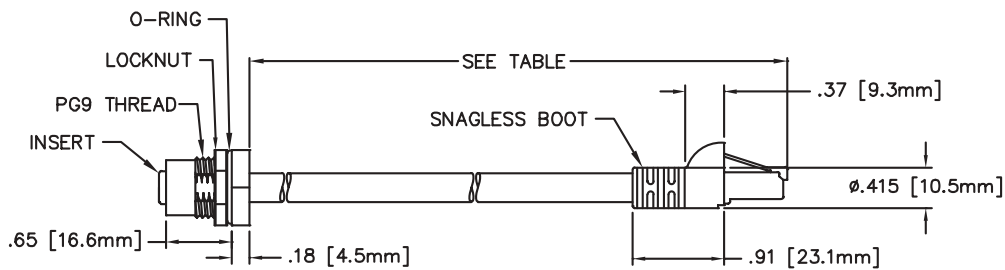
## MATERIAL DATA (MICRO):

INSERT	BLACK PUR
CONTACTS	#24 AWG MACHINED BRASS
CONTACT PLATING	30 μIN. GOLD OVER 50 μIN. NICKEL
SHELL	NICKEL PLATED BRASS
POTTING COMPOUND	BLACK RIGID EPOXY

## MATERIAL DATA (RJ45):

HOUSING	POLYCARBONATE
HOUSING MATERIAL	UL 94V-2
FLAMMABILITY RATING	
CABLE	CAT 5e, #24 AWG PVC TEAL JACKETED, TINNED 7 #32, DIA. .256"±.020"
CONTACTS	PHOSPHOR BRONZE
CONTACT PLATING	50 μIN. GOLD OVER NICKEL
CONTACT TERMINATION PLATING	GOLD FLASH OVER NICKEL
SNAGLESS BOOT	BLACK POLYOLEFIN

- Meets TIA 568-B.2



WIRING TABLE	
POSITION	COLOR
1	WHT/ORN
2	ORN
3	WHT/GRN
4	BLU
5	WHT/BLU
6	GRN
7	WHT/BRN
8	BRN



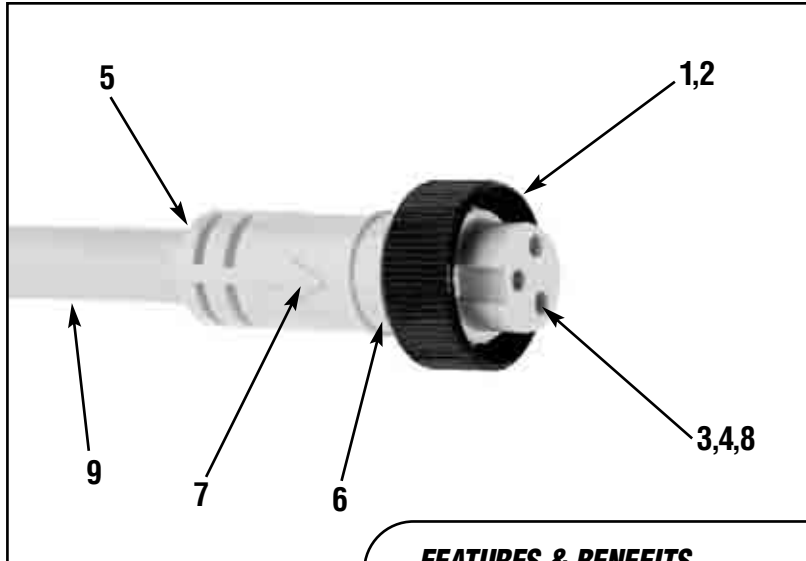
# MINI-LINE CONNECTORS

## 2 THROUGH 12 CONTACTS

**“THE  
TOUGH LINE  
FOR TOUGH  
JOBS”**

Crouse-Hinds Mini-Line connector, molded to heavy-duty ST00W and S00W cable, have been designed specifically for abusive applications in which the cable is exposed to constant flexing and/or dirty, oily, or harsh environments. They also have excellent resistance to welding flash, hot chips and other severe conditions found in demanding manufacturing settings.

The molded-to-cable construction becomes an integral part of the cable assembly, creating a bond that is impervious to penetration from external contaminants. Its one-piece connector head is made from material with the same physical properties as the cable jacket and provides far superior service.



### FEATURES & BENEFITS

- 1 **Epoxy-coated coupler** that passes 1000-hour salt-spray test per MIL-STD-202F for exceptional corrosion resistance.
- 2 **Vibration-resistant ratchet coupler** design prevents loosening in severe, high-vibration applications.
- 3 **Superior female contact design** with stainless steel sleeve tested at 5,000 insertions with minimal retention degradation.
- 4 **Female contact plating** provides superior conductivity and corrosion resistance; 30 micro-inch gold over 50 micro-inch nickel plating.
- 5 **Connector-to-cable molded junction** securely bonds for excellent reliability.
- 6 **Internal contact support** maintains pin location both pin-to-pin and pin-to-face dimensions.
- 7 **Indicating arrow** for easy identification and proper keyway alignment.
- 8 **Shroud and cork** design exceeds IP-68 and NEMA 6P rating (Rated 1,200 PSI hose down spray).
- 9 **Easy stripping PVC jacketed cable** with “fillerless” design allows fast stripping with simple hand tools with high-flex “tinned” copper stranding for improved flexibility. Temperature rated at -40°C to 105°C on standard cable.  
**Cable options** available for industrial applications with the following types:
  - **ST00W cable** with PVC jacket having oil resistant jacket and conductors
  - **S00W “thermoset” cable** with oil resistant jacket/conductors with higher resistance to automotive fluids
  - **SEOW “TPE” cable** with oil resistant jacket/conductors having elastomer jacket
  - **High-flex ROBOTIC cable** provides superior flexing in applications where combined continuous twisting and bending stresses occur.
- 10 Every unit is **100% electrically tested** using state of the art automated test equipment.

# SPECIFICATIONS MINI-LINE STYLE I STOOW PLUGS (2-6 POLE)

- Male and Female Plugs
- 16 AWG Cable (except 6 pole #18)
- 600V 105°C STOOW Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications
- Vibration Proof Ratchet Design



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E 169897  
File #LR13963

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
Current Rating: See chart with part number detail  
Voltage Rating: 600 VAC / 600 VDC  
Dielectric Withstand Voltage: 2200 VAC

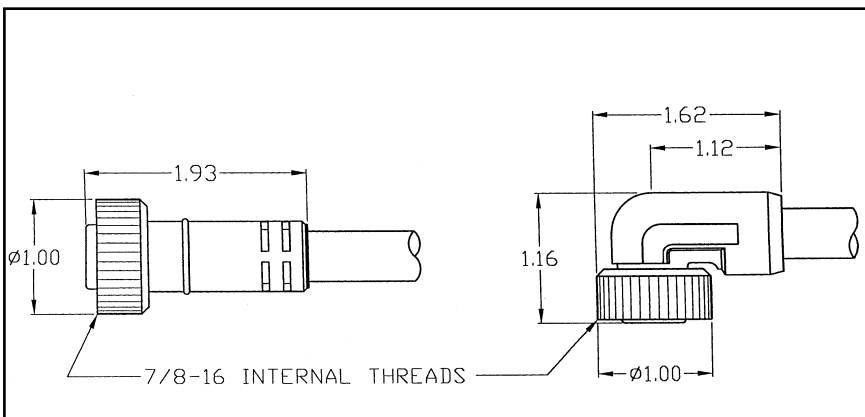
### Environmental Data

Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
Temperature Range:  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$   
Corrosion Resistance: 1000 hr. salt spray per MIL-STD-202F  
High Pressure Water Test: 1200 PSI spray






### Material Data

Body: Yellow, 90A durometer, flame resistant PVC  
Cable: Yellow, STOOW per UL62  
Contacts: Machined Brass per ASTM B-16  
Female Contact Plating: 30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
Coupling Nut: Diecast Zamak 5 with black epoxy coat  
Nylon 6/6 weather stabilized  
303 Stainless Steel






## DIMENSIONS



## MINI-LINE STOOW FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-3	5000108-11
					6'	5000108-4	5000108-12
					12'	5000108-5	5000108-13
					15'	5000108-110	5000108-4036
					20'	5000108-61	5000108-4037
					25'	5000108-4035	5000108-4038
3		1. Green 2. Black 3. White	600V, 13A	16	3'	5000109-3C	5000109-11C
					6'	5000109-4C	5000109-12C
					12'	5000109-5C	5000109-13C
					15'	5000109-42C	5000109-4109C
					20'	5000109-308C	5000109-20C
					25'	5000109-309C	5000109-277C
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-3	5000110-11
					6'	5000110-4	5000110-12
					12'	5000110-5	5000110-13
					15'	5000110-38	5000110-4088
					20'	5000110-19	5000110-20
					25'	5000110-624	5000110-4073
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	3'	5000111-3C	5000111-11C
					6'	5000111-4C	5000111-12C
					12'	5000111-5C	5000111-13C
					15'	5000111-91C	5000111-4049C
					20'	5000111-19C	5000111-20C
					25'	5000111-4118C	5000111-4117C
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-3	5000120-11
					6'	5000120-4	5000120-12
					12'	5000120-5	5000120-13
					15'	5000120-4052	5000120-4053
					20'	5000120-308	5000120-20
					25'	5000120-309	5000120-4021
30'	5000120-310	5000120-4022					

## MINI-LINE STOOW MALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-6	5000108-14
					6'	5000108-7	5000108-15
					12'	5000108-8	5000108-16
					15'	5000108-4040	5000108-4043
					20'	5000108-4041	5000108-4044
					25'	5000108-101	5000108-4045
3		1. Green 2. Black 3. White	600V, 13A	16	3'	5000109-6C	5000109-14C
					6'	5000109-7C	5000109-15C
					12'	5000109-8C	5000109-16C
					15'	5000109-4204C	5000109-4205C
					20'	5000109-4039C	5000109-4112C
					25'	5000109-276C	5000109-4113C
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-6	5000110-14
					6'	5000110-7	5000110-15
					12'	5000110-8	5000110-16
					15'	5000110-4012	5000110-4091
					20'	5000110-4024	5000110-4092
					25'	5000110-4090	5000110-4093
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	3'	5000111-6C	5000111-14C
					6'	5000111-7C	5000111-15C
					12'	5000111-8C	5000111-16C
					15'	5000111-4194C	5000111-4195C
					20'	5000111-4112C	5000111-4135C
					25'	5000111-4067C	5000111-4115C
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-6	5000120-14
					6'	5000120-7	5000120-15
					12'	5000120-8	5000120-16
					15'	5000120-4040	5000120-4056
					20'	5000120-4054	5000120-4057
					25'	5000120-4055	5000120-4058
30'	5000120-4029	5000120-4059					

\*6 pole plugs use 18 gauge conductors for Style I.

Note: Special lengths available upon request — consult factory.





# MINI-LINE STOOV FEMALE PLUG WITH NYLON COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-3N	5000108-11N
					6'	5000108-4N	5000108-12N
					12'	5000108-5N	5000108-13N
					15'	5000108-110N	5000108-4036N
					20'	5000108-61N	5000108-4037N
					25'	5000108-4035N	5000108-4038N
3		1. Green 2. Black 3. White	600V, 13A	16	30'	5000108-63N	5000108-4039N
					3'	5000109-3CN	5000109-11CN
					6'	5000109-4CN	5000109-12CN
					12'	5000109-5CN	5000109-13CN
					15'	5000109-42CN	5000109-4109CN
					20'	5000109-308CN	5000109-20CN
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	25'	5000109-309CN	5000109-277CN
					30'	5000109-310CN	5000109-4203CN
					3'	5000110-3N	5000110-11N
					6'	5000110-4N	5000110-12N
					12'	5000110-5N	5000110-13N
					15'	5000110-4027N	5000110-4088N
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	20'	5000110-19N	5000110-20N
					25'	5000110-624N	5000110-4073N
					30'	5000110-310N	5000110-4089N
					3'	5000111-3CN	5000111-11CN
					6'	5000111-4CN	5000111-12CN
					12'	5000111-5CN	5000111-13CN
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	15'	5000111-4093CN	5000111-4049CN
					20'	5000111-19CN	5000111-20CN
					25'	5000111-4118CN	5000111-4117CN
					30'	5000111-4015CN	5000111-4111CN
					3'	5000120-3N	5000120-11N
					6'	5000120-4N	5000120-12N
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	12'	5000120-5N	5000120-13N
					15'	5000120-4052N	5000120-4053N
					20'	5000120-308N	5000120-20N
					25'	5000120-309N	5000120-4021N
					30'	5000120-310N	5000120-4022N

# MINI-LINE STOOV MALE PLUG WITH NYLON COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-6N	5000108-14N
					6'	5000108-7N	5000108-15N
					12'	5000108-8N	5000108-16N
					15'	5000108-4040N	5000108-4043N
					20'	5000108-4041N	5000108-4044N
					25'	5000108-101N	5000108-4045N
3		1. Green 2. Black 3. White	600V, 13A	16	30'	5000108-4042N	5000108-4046N
					3'	5000109-6CN	5000109-14CN
					6'	5000109-7CN	5000109-15CN
					12'	5000109-8CN	5000109-16CN
					15'	5000109-4204CN	5000109-4205CN
					20'	5000109-4039CN	5000109-4112CN
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	25'	5000109-276CN	5000109-4113CN
					30'	5000109-4010CN	5000109-4114CN
					3'	5000110-6N	5000110-14N
					6'	5000110-7N	5000110-15N
					12'	5000110-8N	5000110-16N
					15'	5000110-4012N	5000110-4091N
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	20'	5000110-4024N	5000110-4092N
					25'	5000110-4090N	5000110-4093N
					30'	5000110-162N	5000110-4094N
					3'	5000111-6CN	5000111-14CN
					6'	5000111-7CN	5000111-15CN
					12'	5000111-8CN	5000111-16CN
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	15'	5000111-4194CN	5000111-4195CN
					20'	5000111-4112CN	5000111-4135CN
					25'	5000111-4067CN	5000111-4115CN
					30'	5000111-4014CN	5000111-4196CN
					3'	5000120-6N	5000120-14N
					6'	5000120-7N	5000120-15N
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	12'	5000120-8N	5000120-16N
					15'	5000120-4040N	5000120-4056N
					20'	5000120-4054N	5000120-4057N
					25'	5000120-4055N	5000120-4058N
					30'	5000120-4029N	5000120-4059N

\*6 pole plugs use 18 gauge conductors for Style I.

Note: Special lengths available upon request — consult factory.



## MINI-LINE STOOW FEMALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-3X	5000108-11X
					6'	5000108-4X	5000108-12X
					12'	5000108-5X	5000108-13X
					15'	5000108-110X	5000108-4036X
					20'	5000108-61X	5000108-4037X
					25'	5000108-4035X	5000108-4038X
3		1. Green 2. Black 3. White	600V, 13A	16	3'	5000109-3CX	5000109-11CX
					6'	5000109-4CX	5000109-12CX
					12'	5000109-5CX	5000109-13CX
					15'	5000109-42CX	5000109-4109CX
					20'	5000109-308CX	5000109-20CX
					25'	5000109-309CX	5000109-277CX
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-3X	5000110-11X
					6'	5000110-4X	5000110-12X
					12'	5000110-5X	5000110-13X
					15'	5000110-4027X	5000110-4088X
					20'	5000110-19X	5000110-20X
					25'	5000110-624X	5000110-4073X
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	3'	5000111-3CX	5000111-11CX
					6'	5000111-4CX	5000111-12CX
					12'	5000111-5CX	5000111-13CX
					15'	5000111-4093CX	5000111-4049CX
					20'	5000111-19CX	5000111-20CX
					25'	5000111-4118CX	5000111-4117CX
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-3X	5000120-11X
					6'	5000120-4X	5000120-12X
					12'	5000120-5X	5000120-13X
					15'	5000120-4052X	5000120-4053X
					20'	5000120-308X	5000120-20X
					25'	5000120-309X	5000120-4021X
30'	5000120-310X	5000120-4022X					

## MINI-LINE STOOW MALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-6X	5000108-14X
					6'	5000108-7X	5000108-15X
					12'	5000108-8X	5000108-16X
					15'	5000108-4040X	5000108-4043X
					20'	5000108-4041X	5000108-4044X
					25'	5000108-101X	5000108-4045X
3		1. Green 2. Black 3. White	600V, 13A	16	3'	5000109-6CX	5000109-14CX
					6'	5000109-7CX	5000109-15CX
					12'	5000109-8CX	5000109-16CX
					15'	5000109-4204CX	5000109-4205CX
					20'	5000109-4039CX	5000109-4112CX
					25'	5000109-276CX	5000109-4113CX
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-6X	5000110-14X
					6'	5000110-7X	5000110-15X
					12'	5000110-8X	5000110-16X
					15'	5000110-4012X	5000110-4091X
					20'	5000110-4024X	5000110-4092X
					25'	5000110-4090X	5000110-4093X
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	3'	5000111-6CX	5000111-14CX
					6'	5000111-7CX	5000111-15CX
					12'	5000111-8CX	5000111-16CX
					15'	5000111-4194CX	5000111-4195CX
					20'	5000111-4112CX	5000111-4135CX
					25'	5000111-4067CX	5000111-4115CX
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-6X	5000120-14X
					6'	5000120-7X	5000120-15X
					12'	5000120-8X	5000120-16X
					15'	5000120-4040X	5000120-4056X
					20'	5000120-4054X	5000120-4057X
					25'	5000120-4055X	5000120-4058X
30'	5000120-4029X	5000120-4059X					

\*6 pole plugs use 18 gauge conductors for Style I.

Note: Special lengths available upon request — consult factory.



# SPECIFICATIONS MINI-LINE STYLE I STOOW MALE TO FEMALE EXTENSIONS (2-6 POLE)

- Male and Female Plugs
- 16 AWG Cable (except 6 pole #18)
- 600V 105°C STOOW Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications
- Vibration Proof Ratchet Design



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-40°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Cable:

Yellow, STOOW per UL62

Contacts:

Machined Brass per ASTM B-16

Female Contact Plating:

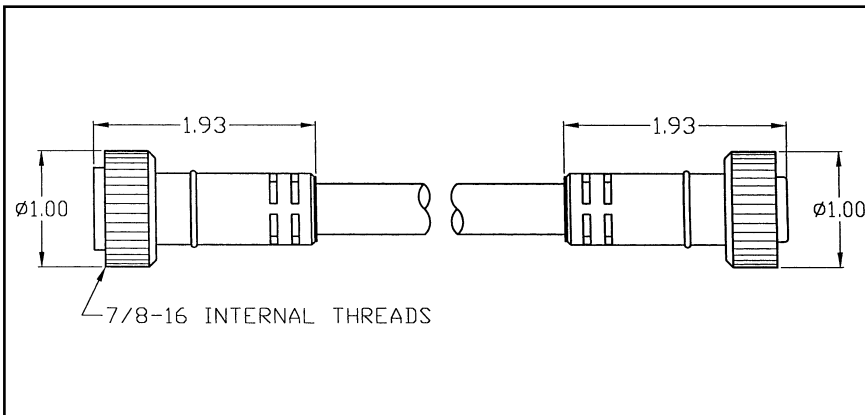
30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Diecast Zamak 5 with black epoxy coat

Nylon 6/6 weather stabilized

## DIMENSIONS





# MINI-LINE STOOW MALE TO FEMALE EXTENSIONS

WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
2		1. White 2. Black	600V, 13A	16	3'	5000108-25
					6'	5000108-26
					12'	5000108-27
					15'	5000108-4048
					20'	5000108-4024
					25'	5000108-4027
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	3'	5000109-25
					6'	5000109-26
					12'	5000109-27
					15'	5000109-265
					20'	5000109-312
					25'	5000109-313
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-25
					6'	5000110-26
					12'	5000110-27
					15'	5000110-4026
					20'	5000110-4008
					25'	5000110-4050
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	3'	5000111-25
					6'	5000111-26
					12'	5000111-27
					15'	5000111-211
					20'	5000111-4023
					25'	5000111-4044
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-25
					6'	5000120-26
					12'	5000120-27
					15'	5000120-90
					20'	5000120-312
					25'	5000120-313
30'	5000120-314					

# MINI-LINE STOOW MALE TO FEMALE EXTENSIONS WITH NYLON COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
2		1. White 2. Black	600V, 13A	16	3'	5000108-25N
					6'	5000108-26N
					12'	5000108-27N
					15'	5000108-4048N
					20'	5000108-4024N
					25'	5000108-4027N
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	3'	5000109-25N
					6'	5000109-26N
					12'	5000109-27N
					15'	5000109-265N
					20'	5000109-312N
					25'	5000109-313N
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-25N
					6'	5000110-26N
					12'	5000110-27N
					15'	5000110-4026N
					20'	5000110-4008N
					25'	5000110-4050N
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	3'	5000111-25N
					6'	5000111-26N
					12'	5000111-27N
					15'	5000111-211N
					20'	5000111-4023N
					25'	5000111-4044N
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-25N
					6'	5000120-26N
					12'	5000120-27N
					15'	5000120-90N
					20'	5000120-312N
					25'	5000120-313N
30'	5000120-314N					

\*6 pole plugs use 18 gauge conductors for Style I

Note:  
Special lengths available upon request — consult factory. Stainless steel coupling nut available — consult factory.



# SPECIFICATIONS MINI-LINE STYLE I SOOW PLUGS (2-5 POLE)

- Male and Female Plugs
- 16 AWG Cable
- 600V 105°C SOOW Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Proof Ratchet Design



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-50°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Cable:

Yellow, SOOW

Contacts:

Machined Brass per ASTM B-16

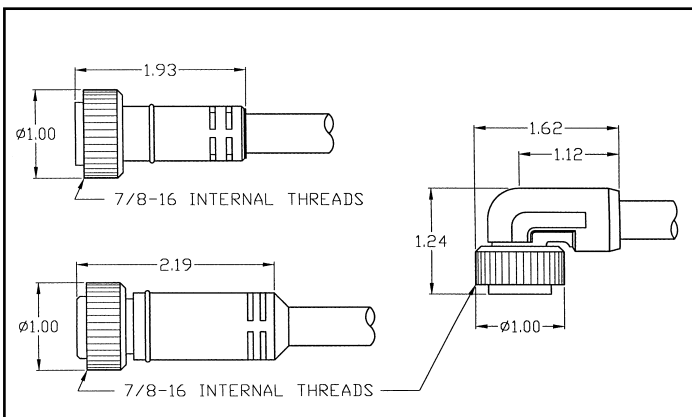
Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel





Coupling Nut:

Diecast Zamak 5 with black epoxy coat





## DIMENSIONS



## MINI-LINE SOOW FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-3S	5000108-11S
					6'	5000108-4S	5000108-12S
					12'	5000108-5S	5000108-13S
					15'	5000108-110S	5000108-4036S
					20'	5000108-61S	5000108-4037S
					25'	5000108-4035S	5000108-4038S
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	3'	5000109-3S	5000109-11S
					6'	5000109-4S	5000109-12S
					12'	5000109-5S	5000109-13S
					15'	5000109-42S	5000109-4109S
					20'	5000109-308S	5000109-20S
					25'	5000109-309S	5000109-277S
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-3S	5000110-11S
					6'	5000110-4S	5000110-12S
					12'	5000110-5S	5000110-13S
					15'	5000110-4027S	5000110-4088S
					20'	5000110-19S	5000110-20S
					25'	5000110-624S	5000110-4073S
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	3'	5000111-3S	5000111-11S
					6'	5000111-4S	5000111-12S
					12'	5000111-5S	5000111-13S
					15'	5000111-4093S	5000111-4049S
					20'	5000111-19S	5000111-20S
					25'	5000111-4118S	5000111-4117S
30'	5000111-4010S	5000111-4111S					

## MINI-LINE SOOW MALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-6S	5000108-14S
					6'	5000108-7S	5000108-15S
					12'	5000108-8S	5000108-16S
					15'	5000108-4040S	5000108-4043S
					20'	5000108-4041S	5000108-4044S
					25'	5000108-101S	5000108-4045S
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	3'	5000109-6S	5000109-14S
					6'	5000109-7S	5000109-15S
					12'	5000109-8S	5000109-16S
					15'	5000109-4204S	5000109-4205S
					20'	5000109-4039S	5000109-4112S
					25'	5000109-276S	5000109-4113S
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-6S	5000110-14S
					6'	5000110-7S	5000110-15S
					12'	5000110-8S	5000110-16S
					15'	5000110-4012S	5000110-4091S
					20'	5000110-4024S	5000110-4092S
					25'	5000110-4090S	5000110-4093S
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	3'	5000111-6S	5000111-14S
					6'	5000111-7S	5000111-15S
					12'	5000111-8S	5000111-16S
					15'	5000111-4194S	5000111-4195S
					20'	5000111-4112S	5000111-4135S
					25'	5000111-4067S	5000111-4115S
30'	5000111-4014S	5000111-4196S					

Note: Special lengths available upon request — consult factory.  
Nylon and stainless steel coupling nuts available — consult factory.



# SPECIFICATIONS MINI-LINE STYLE I SOOW MALE TO FEMALE EXTENSIONS (2-5 POLE)

- 16 AWG Cable
- 600V 105°C SOOW Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Proof Ratchet Design



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E 169897  
File #LR13963

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
Current Rating: See chart with part number detail  
Voltage Rating: 600 VAC / 600 VDC  
Dielectric Withstand Voltage: 2200 VAC

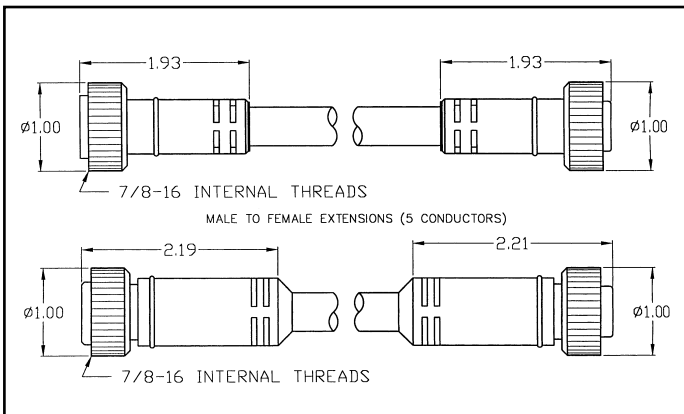
### Environmental Data

Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
Temperature Range:  $-50^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$   
Corrosion Resistance: 1000 hr. salt spray per MIL-STD-202F  
High Pressure Water Test: 1200 PSI spray

### Material Data





Body: Yellow, 90A durometer, flame resistant PVC  
Cable: Yellow, SOOW  
Contacts: Machined Brass per ASTM B-16  
Female Contact Plating: 30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
Coupling Nut: Diecast Zamak 5 with black epoxy coat

## DIMENSIONS



# MINI-LINE SOOW MALE TO FEMALE EXTENSIONS

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
2		1. White 2. Black	600V, 13A	16	3'	5000108-25S
					6'	5000108-26S
					12'	5000108-27S
					15'	5000108-152S
					20'	5000108-4024S
					25'	5000108-4027S
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	3'	5000109-25S
					6'	5000109-26S
					12'	5000109-27S
					15'	5000109-265S
					20'	5000109-312S
					25'	5000109-313S
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-25S
					6'	5000110-26S
					12'	5000110-27S
					15'	5000110-4026S
					20'	5000110-4008S
					25'	5000110-4050S
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	3'	5000111-25S
					6'	5000111-26S
					12'	5000111-27S
					15'	5000111-211S
					20'	5000111-4023S
					25'	5000111-4044S
					30'	5000111-4120S

Note: Special lengths available upon request — consult factory.  
 Nylon and stainless steel coupling nuts available — consult factory.  
 Right angle male and female plugs available — consult factory.

# SPECIFICATIONS MINI-LINE STYLE I SEOW PLUGS (2-6 POLE)

- Male and Female Plugs
- 16 AWG Cable (except 6 pole #18)
- 600V 105°C SEOW Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Proof Ratchet Design



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E 169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Cable:

Yellow, SEOW per UL62

Contacts:

Machined Brass per ASTM B-16

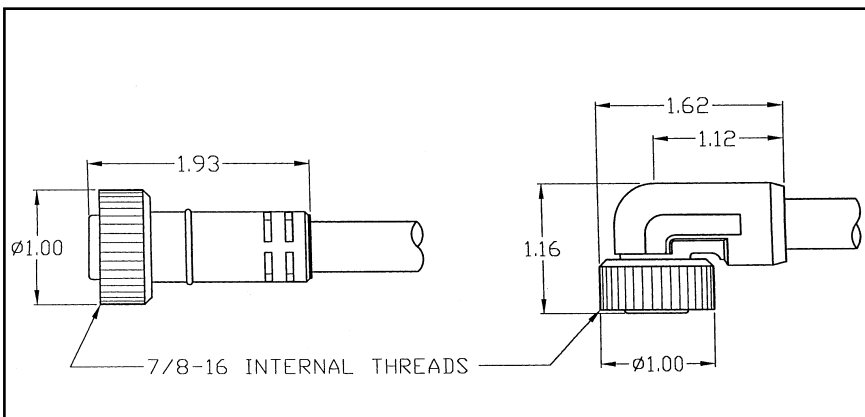
Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Diecast Zamak 5 with black epoxy coat

## DIMENSIONS





# MINI-LINE SEOW FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-3A	5000108-11A
					6'	5000108-4A	5000108-12A
					12'	5000108-5A	5000108-13A
					15'	5000108-110A	5000108-4036A
					20'	5000108-61A	5000108-4037A
					25'	5000108-4035A	5000108-4038A
3		1. Green 2. Black 3. White	600V, 13A	16	3'	5000109-3A	5000109-11A
					6'	5000109-4A	5000109-12A
					12'	5000109-5A	5000109-13A
					15'	5000109-42A	5000109-4109A
					20'	5000109-308A	5000109-20A
					25'	5000109-309A	5000109-277A
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-3A	5000110-11A
					6'	5000110-4A	5000110-12A
					12'	5000110-5A	5000110-13A
					15'	5000110-4027A	5000110-4088A
					20'	5000110-19A	5000110-20A
					25'	5000110-624A	5000110-4073A
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	3'	5000111-3A	5000111-11A
					6'	5000111-4A	5000111-12A
					12'	5000111-5A	5000111-13A
					15'	5000111-4093A	5000111-4049A
					20'	5000111-19A	5000111-20A
					25'	5000111-4118A	5000111-4117A
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-3A	5000120-11A
					6'	5000120-4A	5000120-12A
					12'	5000120-5A	5000120-13A
					15'	5000120-4052A	5000120-4053A
					20'	5000120-308A	5000120-20A
					25'	5000120-309A	5000120-4021A
30'	5000120-310A	5000120-4022A					

# MINI-LINE SEOW MALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-6A	5000108-14A
					6'	5000108-7A	5000108-15A
					12'	5000108-8A	5000108-16A
					15'	5000108-4040A	5000108-4043A
					20'	5000108-4041A	5000108-4044A
					25'	5000108-101A	5000108-4045A
3		1. Green 2. Black 3. White	600V, 13A	16	3'	5000109-6A	5000109-14A
					6'	5000109-7A	5000109-15A
					12'	5000109-8A	5000109-16A
					15'	5000109-4204A	5000109-4205A
					20'	5000109-4039A	5000109-4112A
					25'	5000109-276A	5000109-4113A
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-6A	5000110-14A
					6'	5000110-7A	5000110-15A
					12'	5000110-8A	5000110-16A
					15'	5000110-4012A	5000110-4091A
					20'	5000110-4024A	5000110-4092A
					25'	5000110-4090A	5000110-4093A
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	3'	5000111-6A	5000111-14A
					6'	5000111-7A	5000111-15A
					12'	5000111-8A	5000111-16A
					15'	5000111-4194A	5000111-4195A
					20'	5000111-4112A	5000111-4135A
					25'	5000111-4067A	5000111-4115A
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-6A	5000120-14A
					6'	5000120-7A	5000120-15A
					12'	5000120-8A	5000120-16A
					15'	5000120-4040A	5000120-4056A
					20'	5000120-4054A	5000120-4057A
					25'	5000120-4055A	5000120-4058A
30'	5000120-4029A	5000120-4059A					

\*6 pole plugs use 18 gauge conductors for Style I.

Note: Special lengths available upon request — consult factory.

Nylon and stainless steel coupling nuts available — consult factory.



# SPECIFICATIONS MINI-LINE STYLE I STOOW AUTOMOTIVE PLUGS (3 AND 5 POLE)

- Male and Female Plugs
- 16 AWG Automotive Color Code
- 600V 105°C STOOW Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Proof Ratchet Design



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-40°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Cable:

Yellow, STOOW per UL62

Contacts:

Machined Brass per ASTM B-16

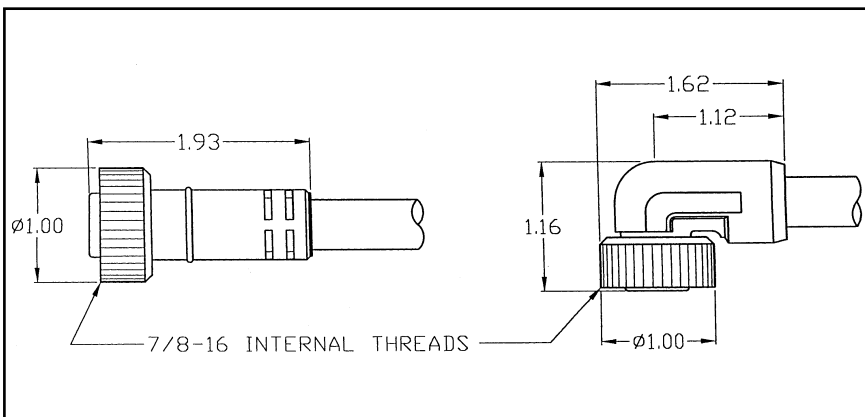
Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel



Coupling Nut:

Diecast Zamak 5 with black epoxy coat



## DIMENSIONS



## MINI-LINE AUTOMOTIVE FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	3'	5000109-3	5000109-11
					6'	5000109-4	5000109-12
					12'	5000109-5	5000109-13
					15'	5000109-42	5000109-4109
					20'	5000109-308	5000109-20
					25'	5000109-309	5000109-277
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	3'	5000111-3	5000111-11
					6'	5000111-4	5000111-12
					12'	5000111-5	5000111-13
					15'	5000111-4093	5000111-4049
					20'	5000111-19	5000111-20
					25'	5000111-4118	5000111-4117
					30'	5000111-4015	5000111-4111

## MINI-LINE AUTOMOTIVE MALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	3'	5000109-6	5000109-14
					6'	5000109-7	5000109-15
					12'	5000109-8	5000109-16
					15'	5000109-4204	5000109-4205
					20'	5000109-4039	5000109-4112
					25'	5000109-276	5000109-4113
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	3'	5000111-6	5000111-14
					6'	5000111-7	5000111-15
					12'	5000111-8	5000111-16
					15'	5000111-4194	5000111-4195
					20'	5000111-4112	5000111-4135
					25'	5000111-4067	5000111-4115
					30'	5000111-4014	5000111-4196

Note: Special lengths available upon request — consult factory.

Nylon and stainless steel coupling nuts available — consult factory.

# SPECIFICATIONS MINI-LINE STYLE I STOOW PLUGS WITH WIRE MESH GRIPS (2-6 POLE)

- Male and Female Plugs
- 16 AWG (except 6 pole #18)
- 600V 105°C STOOW Cable
- Straight Version
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E 169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-40°C to +105°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Cable:

Yellow, STOOW per UL62

Contacts:

Machined Brass per ASTM B-16

Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

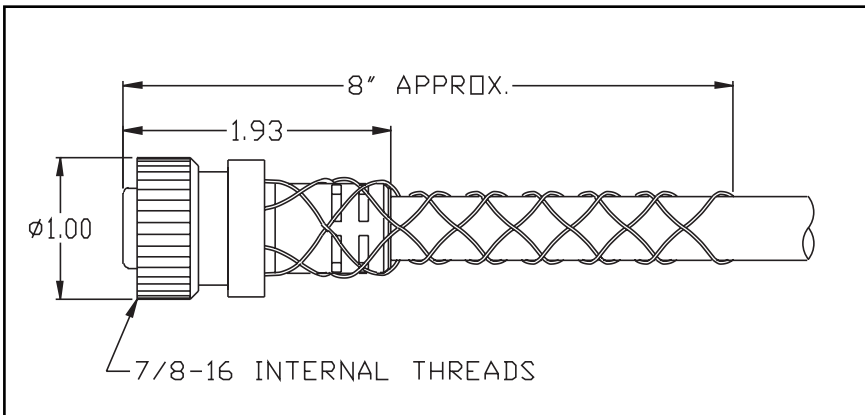
Coupling Nut:

Machined Aluminum with clear anodize finish

Wire Mesh:






Stainless Steel

## DIMENSIONS










## MINI-LINE STOOW FEMALE PLUG WITH WIRE MESH GRIP HARDWARE

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT
2		1. White 2. Black	600V, 13A	16	3'	5000108-3K
					6'	5000108-4K
					12'	5000108-5K
					15'	5000108-110K
					20'	5000108-61K
					25'	5000108-4035K
30'	5000108-63K					
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	3'	5000109-3K
					6'	5000109-4K
					12'	5000109-5K
					15'	5000109-42K
					20'	5000109-308K
					25'	5000109-309K
30'	5000109-310K					
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-3K
					6'	5000110-4K
					12'	5000110-5K
					15'	5000110-4027K
					20'	5000110-19K
					25'	5000110-624K
30'	5000110-310K					
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	3'	5000111-3K
					6'	5000111-4K
					12'	5000111-5K
					15'	5000111-4093K
					20'	5000111-19K
					25'	5000111-4118K
30'	5000111-4015K					
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-3K
					6'	5000120-4K
					12'	5000120-5K
					15'	5000120-4052K
					20'	5000120-308K
					25'	5000120-309K
30'	5000120-310K					

## MINI-LINE STOOW MALE PLUG WITH WIRE MESH GRIP HARDWARE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT
2		1. White 2. Black	600V, 13A	16	3'	5000108-6K
					6'	5000108-7K
					12'	5000108-8K
					15'	5000108-4040K
					20'	5000108-4041K
					25'	5000108-101K
30'	5000108-4042K					
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	3'	5000109-6K
					6'	5000109-7K
					12'	5000109-8K
					15'	5000109-4204K
					20'	5000109-4039K
					25'	5000109-276K
30'	5000109-4010K					
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-6K
					6'	5000110-7K
					12'	5000110-8K
					15'	5000110-4012K
					20'	5000110-4024K
					25'	5000110-4090K
30'	5000110-162K					
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	3'	5000111-6K
					6'	5000111-7K
					12'	5000111-8K
					15'	5000111-4194K
					20'	5000111-4112K
					25'	5000111-4067K
30'	5000111-4014K					
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-6K
					6'	5000120-7K
					12'	5000120-8K
					15'	5000120-4040K
					20'	5000120-4054K
					25'	5000120-4055K
30'	5000120-4029K					

\*6 pole plugs use 18 gauge conductors for Style I.

Note: Special lengths available upon request — consult factory.

**COOPER** Crouse-Hinds

# SPECIFICATIONS MINI-LINE STYLE I NEON FEMALE PLUG (3 POLE)

- Neon Female Plug
- 18 AWG Automotive Color Code
- 120V 105°C
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- 360° Visibility Range



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Clear UV stabilized PVC

Cable:

Yellow, AWM UL style 2661

Contacts:

Brass per ASTM B-16

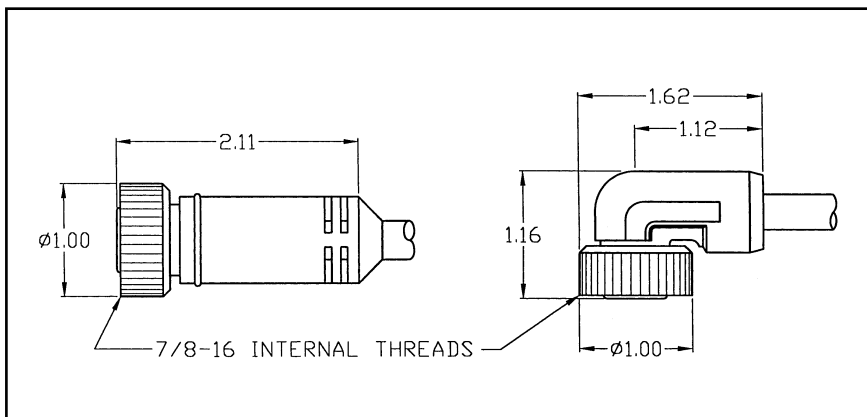
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel


Coupling Nut:

Diecast Zamak 5 with black epoxy coat

## DIMENSIONS

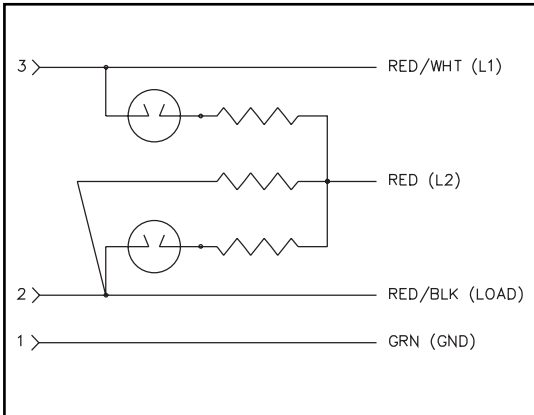


# MINI-LINE™ STYLE I NEON FEMALE PLUG

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AMPS	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White 4. Red-Power	120 VAC	6	6' 12' 20'	5000109-4L 5000109-5L 5000109-19L	5000109-12L 5000109-13L 5000109-20L

Note: Special lengths available upon request — consult factory.  
Nylon and stainless steel coupling nuts available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MINI-LINE STYLE I RECEPTACLES (2-6 POLE)

- Male and Female Receptacles
- Standard Color Code
- 16 AWG Pigtail Leads
- 600V 105°C
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E169897  
File #LR13963

### Electrical Data

Contact Resistance:  
Current Rating:

$\leq 5m\Omega$   
See chart with part  
number detail

Voltage Rating:  
Dielectric Withstand Voltage:

600 VAC / 600 VDC  
2200 VAC

### Environmental Data

Protection:  
Temperature Range:  
High Pressure Water Test:

NEMA 1, 3, 4, 6P and 13; IEC IP 68  
-30°C to +105°C  
1200 PSI spray

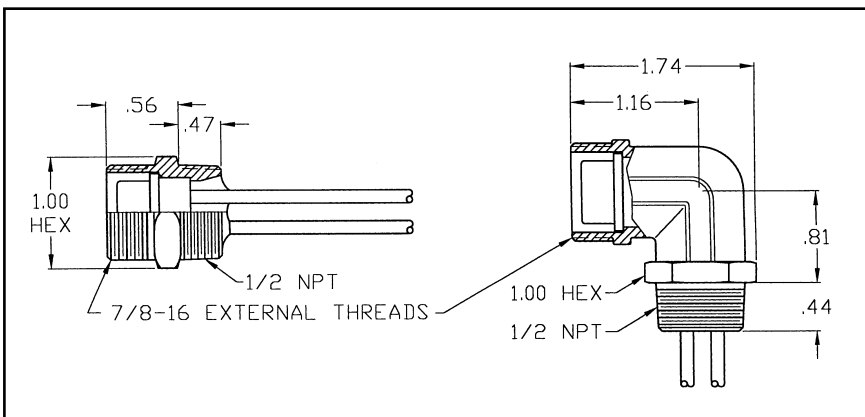
### Material Data

Insert:  
Pigtail leads:  
Contacts:  
Receptacle Shell:

Yellow, 90A durometer, flame resistant PVC  
Color Coded type MTW or AWM style 1015/1230  
Machined Brass per ASTM B-16  
Diecast Zamak 5 Zinc plated with clear sealer  
Nylon 6/6 weather stabilized  
303 Stainless Steel (except right angle design)  
Black rigid epoxy






Potting Compound:

## DIMENSIONS





## MINI-LINE FEMALE RECEPTACLE WITH ZINC DIECAST RECEPTACLE SHELL



POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	10"	5000108-9	5000108-17
3		1. Green 2. Black 3. White	600V, 13A	16	10"	5000109-9	5000109-17
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	10"	5000110-9	5000110-17
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	10"	5000111-9	5000111-17
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	10"	5000120-9	5000120-17

## MINI-LINE MALE RECEPTACLE WITH ZINC DIECAST RECEPTACLE SHELL



POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	10"	5000108-10	5000108-18
3		1. Green 2. Black 3. White	600V, 13A	16	10"	5000109-10	5000109-18
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	10"	5000110-10	5000110-18
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	10"	5000111-10	5000111-18
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	10"	5000120-10	5000120-18

Note: Special lead lengths available upon request — consult factory.

## MINI-LINE FEMALE RECEPTACLE WITH *NYLON* RECEPTACLE SHELL






POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	10"	5000108-9N	5000108-17N
3		1. Green 2. White 3. Black	600V, 13A	16	10"	5000109-9N	5000109-17N
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	10"	5000110-9N	5000110-17N
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	10"	5000111-9N	5000111-17N
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	10"	5000120-9N	5000120-17N

## MINI-LINE MALE RECEPTACLE WITH *NYLON* RECEPTACLE SHELL






POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	10"	5000108-10N	5000108-18N
3		1. Green 2. Black 3. White	600V, 13A	16	10"	5000109-10N	5000109-18N
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	10"	5000110-10N	5000110-18N
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	10"	5000111-10N	5000111-18N
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	10"	5000120-10N	5000120-18N

Note: Special lead lengths available upon request — consult factory.

## MINI-LINE FEMALE RECEPTACLE WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT
2		1. White 2. Black	600V, 13A	16	10"	5000108-9X
3		1. Green 2. White 3. Black	600V, 13A	16	10"	5000109-9X
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	10"	5000110-9X
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	10"	5000111-9X
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	10"	5000120-9X

## MINI-LINE MALE RECEPTACLE WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT
2		1. White 2. Black	600V, 13A	16	10"	5000108-10X
3		1. Green 2. Black 3. White	600V, 13A	16	10"	5000109-10X
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	10"	5000110-10X
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	10"	5000111-10X
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	10"	5000120-10X

Note: Special lead lengths available upon request — consult factory.

# SPECIFICATIONS MINI-LINE STYLE I AUTOMOTIVE RECEPTACLES (3 AND 5 POLE)

- Male and Female Receptacles
- Automotive Color Code
- 16 AWG Pigtail Leads
- 600V 105°C
- Straight and Right Angle Versions
- Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E 169897  
File #LR 13963

### Electrical Data

Contact Resistance:  
Current Rating:

$\leq 5m\Omega$   
See chart with part  
number detail

Voltage Rating:  
Dielectric Withstand Voltage:

600 VAC / 600 VDC  
2200 VAC

### Environmental Data

Protection:  
Temperature Range:  
High Pressure Water Test:

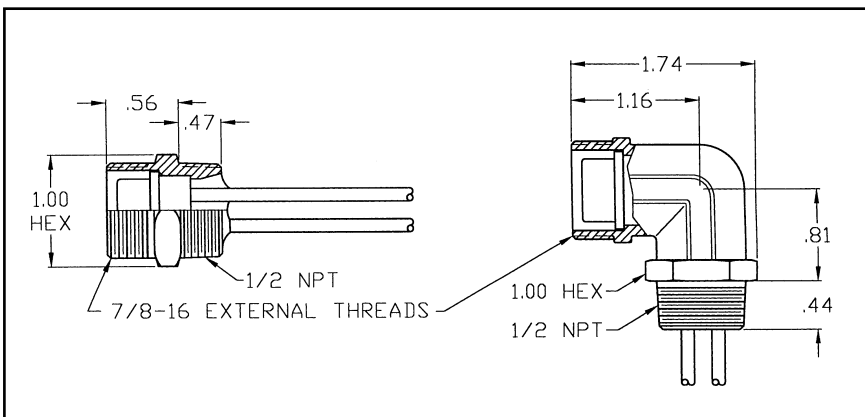
NEMA 1, 3, 4, 6P and 13; IEC IP 68  
-30°C to +105°C  
1200 PSI spray

### Material Data

Insert:  
Pigtail leads:  
Contacts:  
Receptacle Shell:  
Potting Compound:



Yellow, 90A durometer, flame resistant PVC  
Color Coded type MTW or AWM style 1015/1230  
Machined Brass per ASTM B-16  
Diecast Zamak 5 Zinc plated with clear sealer  
Black rigid epoxy

## DIMENSIONS







# MINI-LINE AUTOMOTIVE FEMALE RECEPTACLE WITH ZINC DIECAST RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	10"	5000109-34	5000109-485
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	10"	5000111-426	5000111-425

# MINI-LINE AUTOMOTIVE MALE RECEPTACLE WITH ZINC DIECAST RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	10"	5000109-33	5000109-800
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	10"	5000111-33	5000111-800

Note: Special lead lengths available upon request — consult factory.  
Nylon and stainless steel receptacle shell available except right angle stainless design — consult factory.

# SPECIFICATIONS MINI-LINE STYLE I PANEL MOUNT RECEPTACLES (2-6 POLE)

- Male and Female Panel Mount Receptacles
- Standard Color Code
- 16 AWG Pigtail Leads
- 600V 105°C
- Flange Mount and 1/2"-14 NPT Versions
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E 169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Insert:

Yellow, 90A durometer, flame resistant PVC

Pigtail leads:

Color Coded type MTW or AWM style 1015/1230

Contacts:

Machined Brass per ASTM B-16

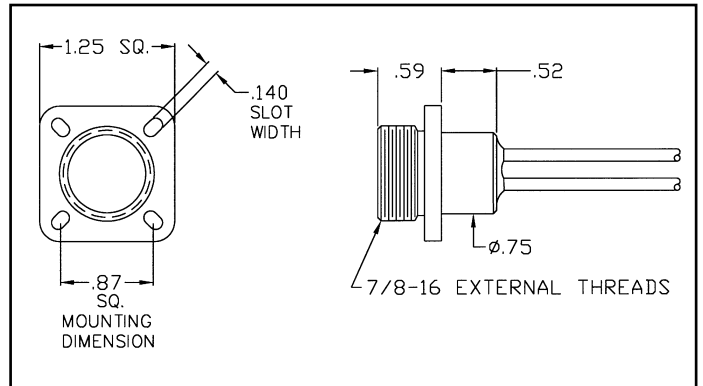
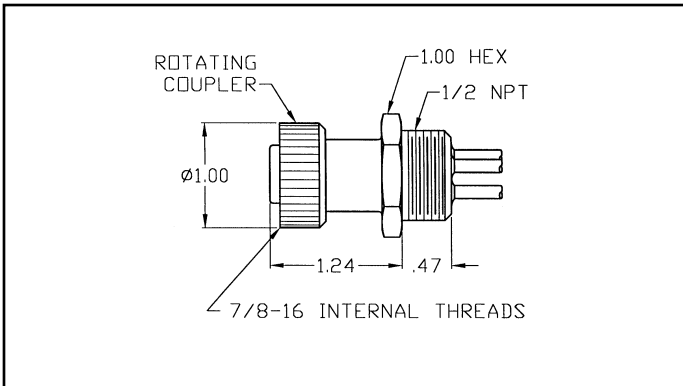
Receptacle Shell:

Machined Aluminum with anodize finish and clear sealant






Potting Compound:

Black rigid epoxy






## DIMENSIONS



# MINI-LINE FEMALE PANEL MOUNT RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	FLANGE MOUNT	1/2" - 14NPT
2		1. White 2. Black	600V, 13A	16	10"	5000108-28	5000108-30
3		1. Green 2. Black 3. White	600V, 13A	16	10"	5000109-28	5000109-30
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	10"	5000110-28	5000110-30
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	10"	5000111-28	5000111-30
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	10"	5000120-28	

# MINI-LINE MALE PANEL MOUNT RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	FLANGE MOUNT
2		1. White 2. Black	600V, 13A	16	10"	5000108-2
3		1. Green 2. Black 3. White	600V, 13A	16	10"	5000109-2
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	10"	5000110-2
5		1. White 2. Green 3. Orange 4. Red 5. Black	600V, 8A	16	10"	5000111-2
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	10"	5000120-2

Note: Special lead lengths available upon request — consult factory.

# SPECIFICATIONS MINI-LINE STYLE I FEMALE LIQUIDTIGHT PLUG (2-6 POLE)

- Female LiquidTight Plugs
- Standard Color Code
- 16 AWG Pigtail Leads
- Fits 1/2" Conduit
- 600V 105°C
- Straight Version
- Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E 169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with  
part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

### Material Data

Insert:

Yellow, 90A durometer, flame resistant PVC

Pigtail leads:

Color Coded type MTW or AWM style 1015/1230

Contacts:

Machined Brass per ASTM B-16

Fitting:

Zinc plated steel

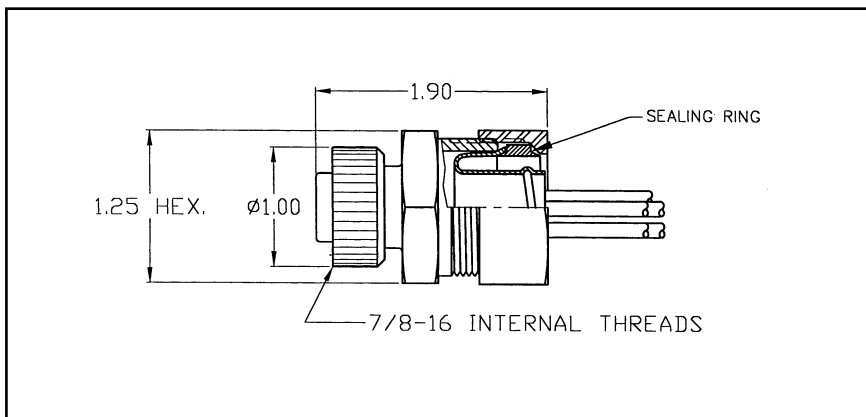
Coupling Nut:

Diecast Zamak 5 Zinc plated with clear sealer

Potting Compound:






Black rigid epoxy

## DIMENSIONS





# MINI-LINE FEMALE LIQUIDTIGHT PLUG WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT
2		1. White 2. Black	600V, 13A	16	6'	5000108-165
3		1. Green 2. Black 3. White	600V, 13A	16	6'	5000109-165
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	6'	5000110-165
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	6'	5000111-165
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	6'	5000120-165

Note: Special lead lengths available upon request — consult factory.

# SPECIFICATIONS MINI-LINE STYLE I TAPPING TEE (2-5 POLE)

- Male-Female-Female Configuration
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Proof Ratchet Design



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with  
part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Body Material:

Santoprene™, black

Insert:

Santoprene, black

Contacts:

Brass per ASTM B16

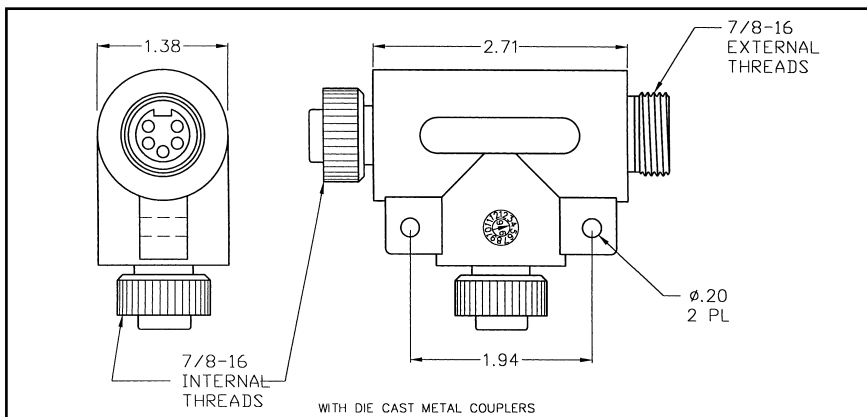
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Diecast Zamak 5 with black epoxy coat

## DIMENSIONS



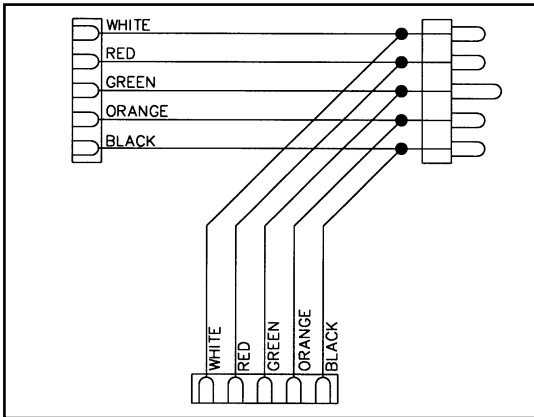
Santoprene is a tradename of  
Advanced Elastomer Systems.

# MINI-LINE STYLE I TAPPING TEE

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	PART NUMBER
2		1. White 2. Black	300V, 13A	16	5000108-362
3		1. Green 2. Black 3. White	300V, 13A	16	5000109-362
4		1. Black 2. White 3. Red 4. Green	300V, 10A	16	5000110-362
5		1. White 2. Red 3. Green 4. Orange 5. Black	300V, 8A	16	5000111-362

Note: Stainless steel coupling nut available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MINI-LINE RIGHT ANGLE ADAPTER (2-5 POLE)

- Right Angle Adapter
- Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E169897  
File #LR13963

### Electrical Data

Contact Resistance:  
Current Rating:

$\leq 5m\Omega$   
See chart with part  
number detail

Voltage Rating:  
Dielectric Withstand Voltage:

600 VAC / 600 VDC  
2200 VAC

### Environmental Data

Protection:  
Temperature Range:  
High Pressure Water Test:

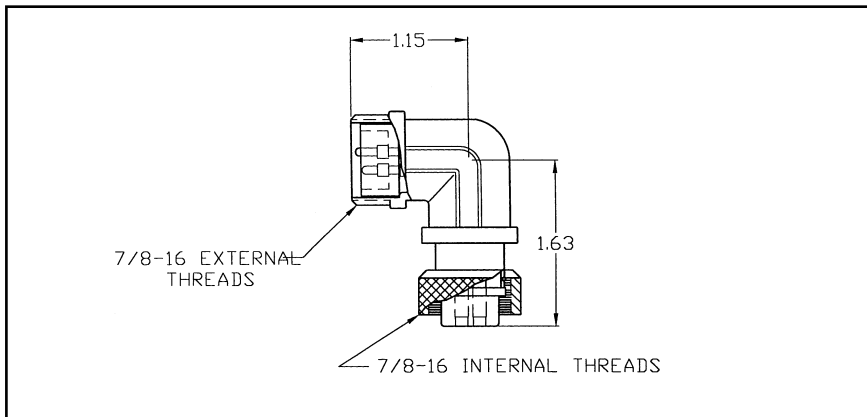
NEMA 1, 3, 4, 6P and 13; IEC IP 68  
-40°C to +105°C  
1200 PSI spray

### Material Data

Insert:  
Contacts:  
Coupling Nut:  
Receptacle Shell:  
Potting Compound:





Yellow, 90A durometer, flame resistant PVC  
Machined Brass per ASTM B-16  
Machined Aluminum with clear anodize finish  
Diecast Zamak 5 Zinc plated with clear sealer  
Black rigid epoxy

## DIMENSIONS





# MINI-LINE RIGHT ANGLE ADAPTER WITH ZINC DIECAST RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	PART NUMBER
2		1. White 2. Black	600V, 13A	16	5000108-436
3		1. Green 2. Black 3. White	600V, 13A	16	5000109-436
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	5000110-436
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	5000111-436

# SPECIFICATIONS MINI-LINE STYLE II STOOW PLUGS (6-8 POLE)

- Male and Female Plugs
- 16 AWG Standard Color Code
- 600V 105°C STOOW Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E 169897  
File #LR13963

### Electrical Data

Contact Resistance:  
Current Rating:

$\leq 5m\Omega$   
See chart with part  
number detail

Voltage Rating:  
Dielectric Withstand Voltage:

600 VAC / 600 VDC  
2200 VAC

### Environmental Data

Protection:  
Temperature Range:

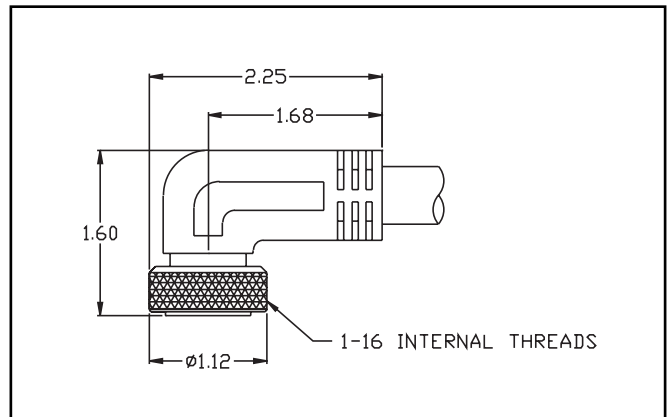
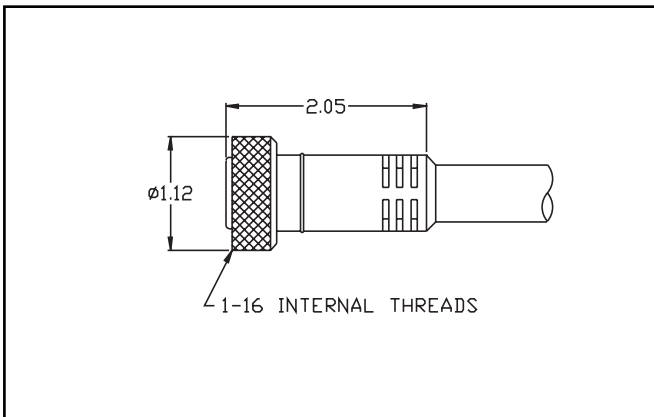
NEMA 1, 3, 4, 6P and 13; IEC IP 68  
-40°C to +105°C

### Material Data

Body:  
Cable:  
Contacts:  
Female Contact Plating:  
Coupling Nut:

Yellow, 82A durometer, flame resistant PVC  
Yellow, STOOW per UL62  
Machined Brass per ASTM B-16  
30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
Machined Aluminum with anodize finish and clear sealant  
Nylon 6/6 weather stabilized  
303 Stainless Steel

## DIMENSIONS



## MINI-LINE STOOW FEMALE PLUG WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
6		1. Orange	600V, 8A	16	3'	X8987-3	X8987-145
		2. Blue			6'	X8987-4	X8987-146
		3. Black			12'	X8987-5	X8987-147
		4. White			15'	X8987-4036	X8987-148
		5. Red			20'	X8987-4005	X8987-149
		6. Green			25'	X8987-4037	X8987-150
7		1. White-Black	600V, 7A	16	3'	X8988-3	X8988-145
		2. Black			6'	X8988-4	X8988-146
		3. White			12'	X8988-5	X8988-147
		4. Red			15'	X8988-4040	X8988-148
		5. Orange			20'	X8988-69	X8988-149
		6. Blue			25'	X8988-70	X8988-150
8		1. Orange	600V, 7A	16	3'	X8989-3	X8989-166
		2. Blue			6'	X8989-4	X8989-167
		3. White-Black			12'	X8989-5	X8989-168
		4. Black			15'	X8989-4069	X8989-169
		5. White			20'	X8989-69	X8989-170
		6. Red			25'	X8989-70	X8989-171
		7. Green	30'	X8989-71	X8989-172		
		8. Red-Black					

## MINI-LINE STOOW MALE PLUG WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
6		1. Orange	600V, 8A	16	3'	X8987-6	X8987-152
		2. Blue			6'	X8987-7	X8987-153
		3. Black			12'	X8987-8	X8987-154
		4. White			15'	X8987-4039	X8987-155
		5. Red			20'	X8987-56	X8987-156
		6. Green			25'	X8987-58	X8987-157
7		1. White-Black	600V, 7A	16	3'	X8987-89	X8987-158
		2. Black			6'	X8988-6	X8988-152
		3. White			12'	X8988-7	X8988-153
		4. Red			15'	X8988-8	X8988-154
		5. Orange			20'	X8988-4041	X8988-155
		6. Blue			25'	X8988-4003	X8988-156
8		7. Green	600V, 7A	16	30'	X8988-20	X8988-157
		1. Orange			3'	X8988-4042	X8988-158
		2. Blue			6'	X8989-6	X8989-173
		3. White-Black			12'	X8989-7	X8989-174
		4. Black			15'	X8989-8	X8989-175
		5. White			20'	X8989-4070	X8989-176
6. Red	25'	X8989-56	X8989-177				
		7. Green	30'	X8989-15	X8989-178		
		8. Red-Black			X8989-57	X8989-179	

Note: Special lengths available upon request — consult factory.

## MINI-LINE STOOW FEMALE PLUG WITH NYLON COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
6		1. Orange	600V, 8A	16	3'	X8987-3N	X8987-145N
		2. Blue			6'	X8987-4N	X8987-146N
		3. Black			12'	X8987-5N	X8987-147N
		4. White			15'	X8987-4036N	X8987-148N
		5. Red			20'	X8987-4005N	X8987-149N
		6. Green			25'	X8987-4037N	X8987-150N
7		1. White-Black	600V, 7A	16	3'	X8988-3N	X8988-145N
		2. Black			6'	X8988-4N	X8988-146N
		3. White			12'	X8988-5N	X8988-147N
		4. Red			15'	X8988-4040N	X8988-148N
		5. Orange			20'	X8988-69N	X8988-149N
		6. Blue			25'	X8988-70N	X8988-150N
8		1. Orange	600V, 7A	16	3'	X8989-3N	X8989-166N
		2. Blue			6'	X8989-4N	X8989-167N
		3. White-Black			12'	X8989-5N	X8989-168N
		4. Black			15'	X8989-4069N	X8989-169N
		5. White			20'	X8989-69N	X8989-170N
		6. Red			25'	X8989-70N	X8989-171N
		7. Green	30'	X8989-71N	X8989-172N		
		8. Red-Black					




## MINI-LINE STOOW MALE PLUG WITH NYLON COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
6		1. Orange	600V, 8A	16	3'	X8987-6N	X8987-152N
		2. Blue			6'	X8987-7N	X8987-153N
		3. Black			12'	X8987-8N	X8987-154N
		4. White			15'	X8987-4039N	X8987-155N
		5. Red			20'	X8987-56N	X8987-156N
		6. Green			25'	X8987-58N	X8987-157N
7		1. White-Black	600V, 7A	16	3'	X8988-6N	X8988-152N
		2. Black			6'	X8988-7N	X8988-153N
		3. White			12'	X8988-8N	X8988-154N
		4. Red			15'	X8988-4041N	X8988-155N
		5. Orange			20'	X8988-4003N	X8988-156N
		6. Blue			25'	X8988-20N	X8988-157N
8		1. Orange	600V, 7A	16	3'	X8989-6N	X8989-173N
		2. Blue			6'	X8989-7N	X8989-174N
		3. White-Black			12'	X8989-8N	X8989-175N
		4. Black			15'	X8989-4070N	X8989-176N
		5. White			20'	X8989-56N	X8989-177N
		6. Red			25'	X8989-15N	X8989-178N
		7. Green	30'	X8989-57N	X8989-179N		
		8. Red-Black					




Note: Special lengths available upon request — consult factory.



## MINI-LINE STOOW FEMALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
6		1. Orange	600V, 8A	16	3'	X8987-3X	X8987-145X
		2. Blue			6'	X8987-4X	X8987-146X
		3. Black			12'	X8987-5X	X8987-147X
		4. White			15'	X8987-4036X	X8987-148X
		5. Red			20'	X8987-4005X	X8987-149X
		6. Green			25'	X8987-4037X	X8987-150X
7		1. White-Black	600V, 7A	16	3'	X8988-3X	X8988-145X
		2. Black			6'	X8988-4X	X8988-146X
		3. White			12'	X8988-5X	X8988-147X
		4. Red			15'	X8988-4040X	X8988-148X
		5. Orange			20'	X8988-69X	X8988-149X
		6. Blue			25'	X8988-70X	X8988-150X
		7. Green			30'	X8988-71X	X8988-151X
8		1. Orange	600V, 7A	16	3'	X8989-3X	X8989-166X
		2. Blue			6'	X8989-4X	X8989-167X
		3. White-Black			12'	X8989-5X	X8989-168X
		4. Black			15'	X8989-4069X	X8989-169X
		5. White			20'	X8989-69X	X8989-170X
		6. Red			25'	X8989-70X	X8989-171X
		7. Green			30'	X8989-71X	X8989-172X
		8. Red-Black					

## MINI-LINE STOOW MALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
6		1. Orange	600V, 8A	16	3'	X8987-6X	X8987-152X
		2. Blue			6'	X8987-7X	X8987-153X
		3. Black			12'	X8987-8X	X8987-154X
		4. White			15'	X8987-4039X	X8987-155X
		5. Red			20'	X8987-56X	X8987-156X
		6. Green			25'	X8987-58X	X8987-157X
7		1. White-Black	600V, 7A	16	3'	X8988-6X	X8988-152X
		2. Black			6'	X8988-7X	X8988-153X
		3. White			12'	X8988-8X	X8988-154X
		4. Red			15'	X8988-4041X	X8988-155X
		5. Orange			20'	X8988-4003X	X8988-156X
		6. Blue			25'	X8988-20X	X8988-157X
		7. Green			30'	X8988-4042X	X8988-158X
8		1. Orange	600V, 7A	16	3'	X8989-6X	X8989-173X
		2. Blue			6'	X8989-7X	X8989-174X
		3. White-Black			12'	X8989-8X	X8989-175X
		4. Black			15'	X8989-4070X	X8989-176X
		5. White			20'	X8989-56X	X8989-177X
		6. Red			25'	X8989-15X	X8989-178X
		7. Green			30'	X8989-57X	X8989-179X
		8. Red-Black					

Note: Special lengths available upon request — consult factory.

# SPECIFICATIONS MINI-LINE STYLE II STOOW MALE TO FEMALE EXTENSIONS (6-8 POLE)

- 16 AWG Standard Color Code
- 600V 105°C STOOW Cable
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

CSA Certification:

File #E169897

File #LR13963

### Electrical Data

Contact Resistance:

Current Rating:

Voltage Rating:

Dielectric Withstand Voltage:

≤ 5mΩ

See chart with part number detail

600 VAC / 600 VDC

2200 VAC

### Environmental Data

Protection:

Temperature Range:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

-40°C to +105°C

### Material Data

Body:

Cable:

Contacts:

Female Contact Plating:

Coupling Nut:

Yellow, 82A durometer, flame resistant PVC

Yellow, STOOW per UL62

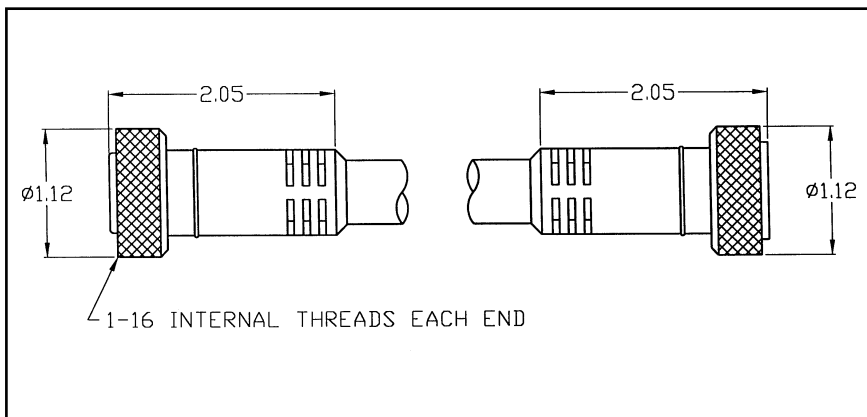
Machined Brass per ASTM B-16

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Machined Aluminum with anodize finish and clear sealant




Nylon 6/6 weather stabilized

## DIMENSIONS






# MINI-LINE STOOW MALE TO FEMALE EXTENSIONS

WITH **MACHINED ALUMINUM** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	3'	X8987-33
					6'	X8987-34
					12'	X8987-35
					15'	X8987-4040
					20'	X8987-4006
					25'	X8987-4041
30'	X8987-4042					
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	3'	X8988-33
					6'	X8988-34
					12'	X8988-35
					15'	X8988-4043
					20'	X8988-73
					25'	X8988-74
					30'	X8988-75
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	3'	X8989-33
					6'	X8989-34
					12'	X8989-35
					15'	X8989-4071
					20'	X8989-73
					25'	X8989-74
					30'	X8989-75

# MINI-LINE STOOW MALE TO FEMALE EXTENSIONS WITH **NYLON** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	3'	X8987-33N
					6'	X8987-34N
					12'	X8987-35N
					15'	X8987-4040N
					20'	X8987-4006N
					25'	X8987-4041N
30'	X8987-4042N					
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	3'	X8988-33N
					6'	X8988-34N
					12'	X8988-35N
					15'	X8988-4043N
					20'	X8988-73N
					25'	X8988-74N
					30'	X8988-75N
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	3'	X8989-33N
					6'	X8989-34N
					12'	X8989-35N
					15'	X8989-4071N
					20'	X8989-73N
					25'	X8989-74N
					30'	X8989-75N

Note: Special lengths available upon request — consult factory.

Stainless steel coupling nut available — consult factory.

Right angle male and female plugs available — consult factory.

# SPECIFICATIONS MINI-LINE STYLE II SOOW PLUGS (6-8 POLE)

- Male and Female Plugs
- 16 AWG Standard Color Code
- 600V 105°C SOOW Cable
- Straight and Right Angle Versions
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-50°C to +105°C

### Material Data

Body:

Yellow, 82A durometer, flame resistant PVC

Cable:

Yellow, SOOW

Contacts:

Machined Brass per ASTM B-16

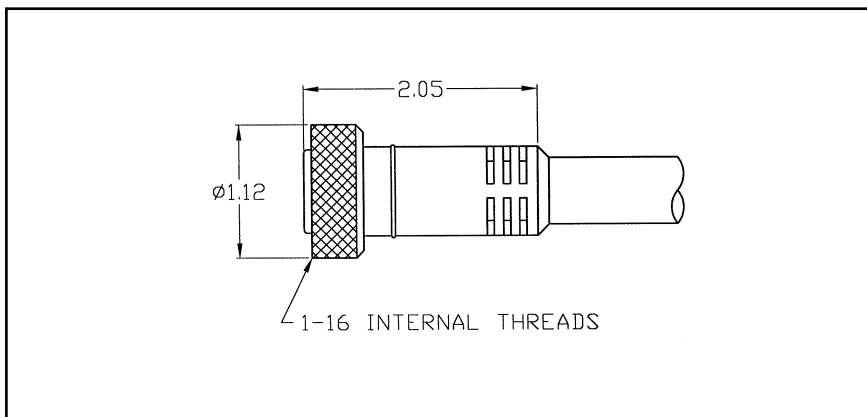
Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:




Machined Aluminum with anodize finish and clear sealant

## DIMENSIONS








## MINI-LINE SOOW FEMALE PLUG WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
6		1. Orange	600V, 8A	16	3'	X8987-3S	X8987-145S
		2. Blue			6'	X8987-4S	X8987-146S
		3. Black			12'	X8987-5S	X8987-147S
		4. White			15'	X8987-4036S	X8987-148S
		5. Red			20'	X8987-4005S	X8987-149S
		6. Green			25'	X8987-4037S	X8987-150S
7		1. White-Black	600V, 7A	16	3'	X8988-3S	X8988-145S
		2. Black			6'	X8988-4S	X8988-146S
		3. White			12'	X8988-5S	X8988-147S
		4. Red			15'	X8988-4040S	X8988-148S
		5. Orange			20'	X8988-69S	X8988-149S
		6. Blue			25'	X8988-70S	X8988-150S
		7. Green			30'	X8988-71S	X8988-151S
8		1. Orange	600V, 7A	16	3'	X8989-3S	X8989-166S
		2. Blue			6'	X8989-4S	X8989-167S
		3. White-Black			12'	X8989-5S	X8989-168S
		4. Black			15'	X8989-4069S	X8989-169S
		5. White			20'	X8989-69S	X8989-170S
		6. Red			25'	X8989-70S	X8989-171S
		7. Green			30'	X8989-71S	X8989-172S
		8. Red-Black					

## MINI-LINE SOOW MALE PLUG WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
6		1. Orange	600V, 8A	16	3'	X8987-6S	X8987-152S
		2. Blue			6'	X8987-7S	X8987-153S
		3. Black			12'	X8987-8S	X8987-154S
		4. White			15'	X8987-4039S	X8987-155S
		5. Red			20'	X8987-56S	X8987-156S
		6. Green			25'	X8987-58S	X8987-157S
7		1. White-Black	600V, 7A	16	3'	X8988-6S	X8988-152S
		2. Black			6'	X8988-7S	X8988-153S
		3. White			12'	X8988-8S	X8988-154S
		4. Red			15'	X8988-4041S	X8988-155S
		5. Orange			20'	X8988-4003S	X8988-156S
		6. Blue			25'	X8988-20S	X8988-157S
		7. Green			30'	X8988-4042S	X8988-158S
8		1. Orange	600V, 7A	16	3'	X8989-6S	X8989-173S
		2. Blue			6'	X8989-7S	X8989-174S
		3. White-Black			12'	X8989-8S	X8989-175S
		4. Black			15'	X8989-4070S	X8989-156S
		5. White			20'	X8989-56S	X8989-177S
		6. Red			25'	X8989-15S	X8989-178S
		7. Green			30'	X8989-57S	X8989-179S
		8. Red-Black					

Note: Special lengths available upon request — consult factory.

Nylon and stainless steel coupling nuts available — consult factory.

# SPECIFICATIONS MINI-LINE STYLE II SOOW MALE TO FEMALE EXTENSIONS (6-8 POLE)

- 16 AWG Standard Color Code
- 600V 105°C SOOW Cable
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E 169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-50°C to +105°C

### Material Data

Body:

Yellow, 82A durometer, flame resistant PVC

Cable:

Yellow, SOOW

Contacts:

Machined Brass per ASTM B-16

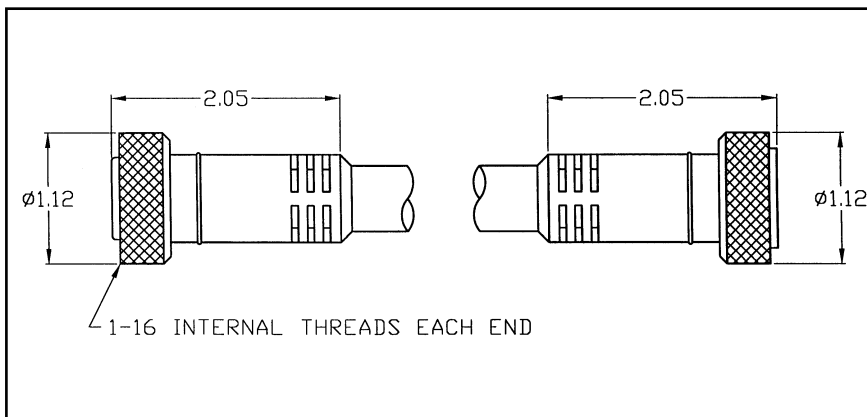
Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:




Machined Aluminum with anodize finish and clear sealant

## DIMENSIONS



# MINI-LINE SOOW MALE TO FEMALE EXTENSIONS

WITH **MACHINED ALUMINUM** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	3'	X8987-33S
					6'	X8987-34S
					12'	X8987-35S
					15'	X8987-4040S
					20'	X8987-4006S
					25'	X8987-4041S
30'	X8987-4042S					
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	3'	X8988-33S
					6'	X8988-34S
					12'	X8988-35S
					15'	X8988-4043S
					20'	X8988-73S
					25'	X8988-74S
					30'	X8988-75S
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	3'	X8989-33S
					6'	X8989-34S
					12'	X8989-35S
					15'	X8989-4071S
					20'	X8989-73S
					25'	X8989-74S
					30'	X8989-75S

Note: Special lengths available upon request — consult factory.

Nylon and stainless steel coupling nuts available — consult factory.

Right angle male and female plugs available — consult factory.

# SPECIFICATIONS MINI-LINE STYLE II RECEPTACLES (6-8 POLE)

- Male and Female Receptacles
- Standard Color Code
- 16 AWG Pigtail Leads
- 600V 105°C
- Standard and Flange Mount Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

### Material Data

Insert:

Yellow, 82A durometer, flame resistant PVC

Pigtail Leads:

Color coded type MTW or AWM style 1015/1230

Contacts:

Machined Brass per ASTM B-16

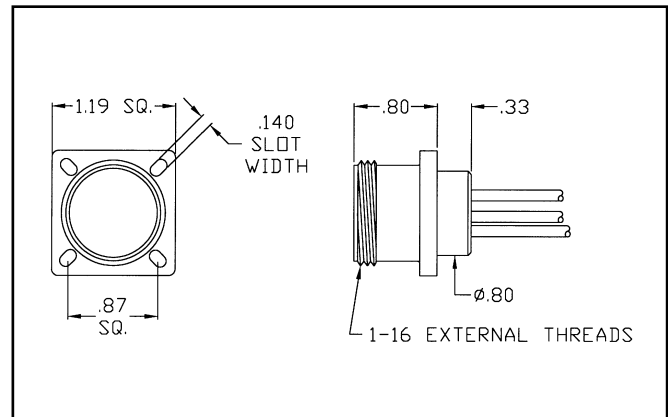
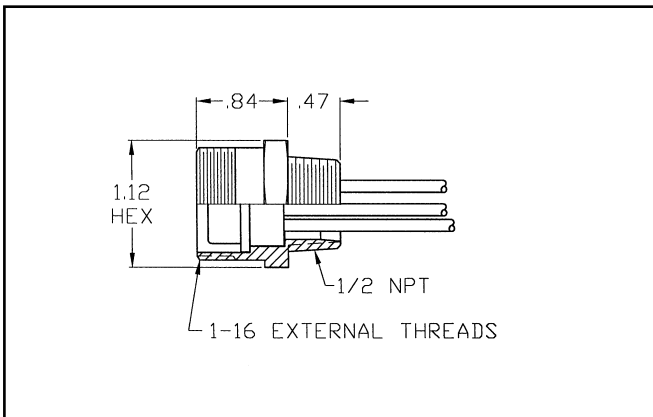
Receptacle Shell:

Machined Aluminum with anodize finish and clear sealant  
303 Stainless Steel

Potting Compound:




Black rigid epoxy

## DIMENSIONS








## MINI-LINE FEMALE RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" - 14NPT
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	10"	X8987-1
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	10"	X8988-1
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	10"	X8989-1

## MINI-LINE MALE RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" - 14NPT
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	10"	X8987-2
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	10"	X8988-2
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	10"	X8989-2

Note: Special lead lengths available upon request — consult factory.

## MINI-LINE FEMALE RECEPTACLE WITH STAINLESS STEEL RECEPTACLE SHELL




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" - 14NPT
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	10"	X8987-1X
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	10"	X8988-1X
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	10"	X8989-1X

## MINI-LINE MALE RECEPTACLE WITH STAINLESS STEEL RECEPTACLE SHELL




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" - 14NPT
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	10"	X8987-2X
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	10"	X8988-2X
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	10"	X8989-2X

Note: Special lead lengths available upon request — consult factory.

## MINI-LINE FLANGE MOUNT FEMALE RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	FLANGE MOUNT
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	10"	X8987-39
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	10"	X8988-39
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	10"	X8989-39

## MINI-LINE FLANGE MOUNT MALE RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	FLANGE MOUNT
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	10"	X8987-22
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	10"	X8988-22
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	10"	X8989-22

Note: Special lead lengths available upon request — consult factory.

# SPECIFICATIONS MINI-LINE STYLE III STOOW PLUGS (9, 10 AND 12 POLE)

- Male and Female Plugs
- 16 AWG Standard Color Code
- 600V 105°C STOOW Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E 169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-40°C to +105°C

### Material Data

Body:

Yellow, 82A durometer, flame resistant PVC

Cable:

Yellow, STOOW per UL62

Contacts:

Machined Brass per ASTM B-16

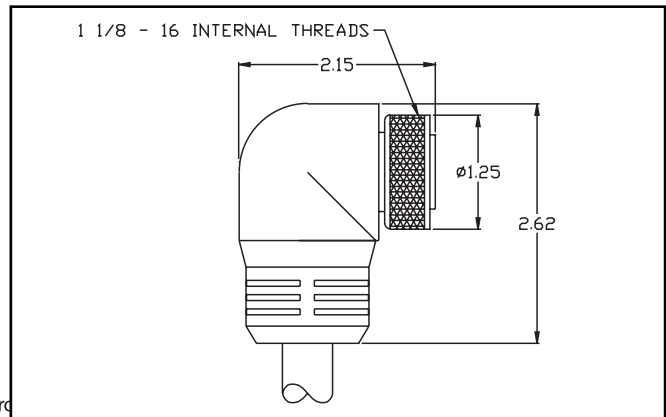
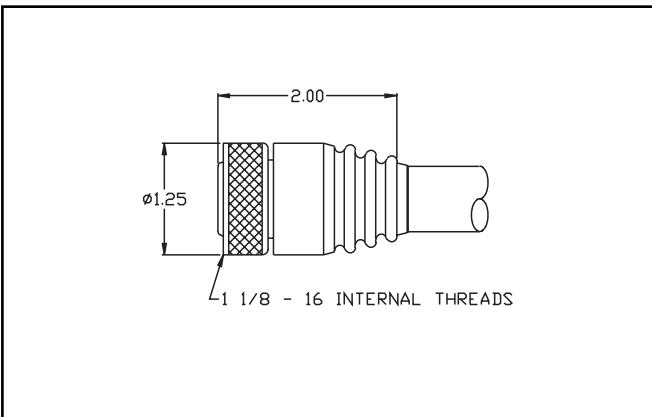
Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Machined Aluminum with anodize finish and clear sealant  
303 Stainless Steel

## DIMENSIONS





## MINI-LINE STOOW FEMALE PLUG WITH MACHINED ALUMINUM COUPLING NUT




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
9		1. Orange	600V, 7A	16	3'	X8990-3	X8990-80
		2. Blue			6'	X8990-4	X8990-81
		3. Red-Black			12'	X8990-5	X8990-82
		4. Green-Black			15'	X8990-4027	X8990-83
		5. White			20'	X8990-69	X8990-84
		6. Red			25'	X8990-70	X8990-85
		7. Green			30'	X8990-71	X8990-86
		8. White-Black					
		9. Black					
10		1. Orange	600V, 7A	16	3'	X8991-3	X8991-145
		2. Blue			6'	X8991-4	X8991-146
		3. White-Black			12'	X8991-5	X8991-147
		4. Red-Black			15'	X8991-4004	X8991-148
		5. Green-Black			20'	X8991-69	X8991-149
		6. Orange-Black			25'	X8991-70	X8991-150
		7. Red			30'	X8991-71	X8991-151
		8. Green					
		9. Black					
		10. White					
12		1. Orange	600V, 7A	16	3'	X8992-3	X8992-110
		2. Blue			6'	X8992-4	X8992-111
		3. White-Black			12'	X8992-5	X8992-112
		4. Red-Black			15'	X8992-4036	X8992-113
		5. Green-Black			20'	X8992-69	X8992-114
		6. Orange-Black			25'	X8992-70	X8992-115
		7. Blue-Black			30'	X8992-71	X8992-116
		8. Black-White					
		9. Green					
		10. Red					
		11. White					
		12. Black					

## MINI-LINE STOOW MALE PLUG WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
9		1. Orange	600V, 7A	16	3'	X8990-6	X8990-87
		2. Blue			6'	X8990-7	X8990-88
		3. Red-Black			12'	X8990-8	X8990-89
		4. Green-Black			15'	X8990-4028	X8990-90
		5. White			20'	X8990-4029	X8990-91
		6. Red			25'	X8990-4030	X8990-92
		7. Green			30'	X8990-4017	X8990-93
		8. White-Black					
		9. Black					
10		1. Orange	600V, 7A	16	3'	X8991-6	X8991-152
		2. Blue			6'	X8991-7	X8991-153
		3. White-Black			12'	X8991-8	X8991-154
		4. Red-Black			15'	X8991-4067	X8991-155
		5. Green-Black			20'	X8991-4068	X8991-156
		6. Orange-Black			25'	X8991-4069	X8991-157
		7. Red			30'	X8991-4039	X8991-158
8. Green							
9. Black							
10. White							
12		1. Orange	600V, 7A	16	3'	X8992-6	X8992-117
		2. Blue			6'	X8992-7	X8992-118
		3. White-Black			12'	X8992-8	X8992-119
		4. Red-Black			15'	X8992-615	X8992-120
		5. Green-Black			20'	X8992-4014	X8992-121
		6. Orange-Black			25'	X8992-4043	X8992-122
		7. Blue-Black			30'	X8992-4031	X8992-123
		8. Black-White					
		9. Green					
		10. Red					
		11. White					
		12. Black					




Note: Special lengths available upon request — consult factory.

# MINI-LINE STOOV FEMALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
9		1. Orange	600V, 7A	16	3'	X8990-3X	X8990-80X
		2. Blue			6'	X8990-4X	X8990-81X
		3. Red-Black			12'	X8990-5X	X8990-82X
		4. Green-Black			15'	X8990-4027X	X8990-83X
		5. White			20'	X8990-69X	X8990-84X
		6. Red			25'	X8990-70X	X8990-85X
		7. Green			30'	X8990-71X	X8990-86X
		8. White-Black					
		9. Black					
10		1. Orange	600V, 7A	16	3'	X8991-3X	X8991-145X
		2. Blue			6'	X8991-4X	X8991-146X
		3. White-Black			12'	X8991-5X	X8991-147X
		4. Red-Black			15'	X8991-4004X	X8991-148X
		5. Green-Black			20'	X8991-69X	X8991-149X
		6. Orange-Black			25'	X8991-70X	X8991-150X
		7. Red			30'	X8991-71X	X8991-151X
		8. Green					
		9. Black					
		10. White					
12		1. Orange	600V, 7A	16	3'	X8992-3X	X8992-110X
		2. Blue			6'	X8992-4X	X8992-111X
		3. White-Black			12'	X8992-5X	X8992-112X
		4. Red-Black			15'	X8992-4036X	X8992-113X
		5. Green-Black			20'	X8992-69X	X8992-114X
		6. Orange-Black			25'	X8992-70X	X8992-115X
		7. Blue-Black			30'	X8992-71X	X8992-116X
		8. Black-White					
		9. Green					
		10. Red					
		11. White					
		12. Black					

Note: Special lengths available upon request — consult factory.

# MINI-LINE STOOW MALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
9		1. Orange	600V, 7A	16	3'	X8990-6X	X8990-87X
		2. Blue			6'	X8990-7X	X8990-88X
		3. Red-Black			12'	X8990-8X	X8990-89X
		4. Green-Black			15'	X8990-4028X	X8990-90X
		5. White			20'	X8990-4029X	X8990-91X
		6. Red			25'	X8990-4030X	X8990-92X
		7. Green			30'	X8990-4017X	X8990-93X
		8. White-Black					
		9. Black					
10		1. Orange	600V, 7A	16	3'	X8991-6X	X8991-152X
		2. Blue			6'	X8991-7X	X8991-153X
		3. White-Black			12'	X8991-8X	X8991-154X
		4. Red-Black			15'	X8991-4067X	X8991-155X
		5. Green-Black			20'	X8991-4068X	X8991-156X
		6. Orange-Black			25'	X8991-4069X	X8991-157X
		7. Red			30'	X8991-4039X	X8991-158X
		8. Green					
		9. Black					
		10. White					
12		1. Orange	600V, 7A	16	3'	X8992-6X	X8992-117X
		2. Blue			6'	X8992-7X	X8992-118X
		3. White-Black			12'	X8992-8X	X8992-119X
		4. Red-Black			15'	X8992-615X	X8992-120X
		5. Green-Black			20'	X8992-4014X	X8992-121X
		6. Orange-Black			25'	X8992-4043X	X8992-122X
		7. Blue-Black			30'	X8992-4031X	X8992-123X
		8. Black-White					
		9. Green					
		10. Red					
		11. White					
		12. Black					

Note: Special lengths available upon request — consult factory.

# **SPECIFICATIONS MINI-LINE STYLE III STOOW MALE TO FEMALE EXTENSIONS (9, 10 AND 12 POLE)**

- 16 AWG Standard Color Code
- 600V 105°C STOOW
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## **TECHNICAL DATA**

### **Agency Approvals**

UL Recognition:  
CSA Certification:

File #E 169897  
File #LR13963

### **Electrical Data**

Contact Resistance:  
Current Rating:

$\leq 5m\Omega$   
See chart with part  
number detail

Voltage Rating:  
Dielectric Withstand Voltage:

600 VAC / 600 VDC  
2200 VAC

### **Environmental Data**

Protection:  
Temperature Range:

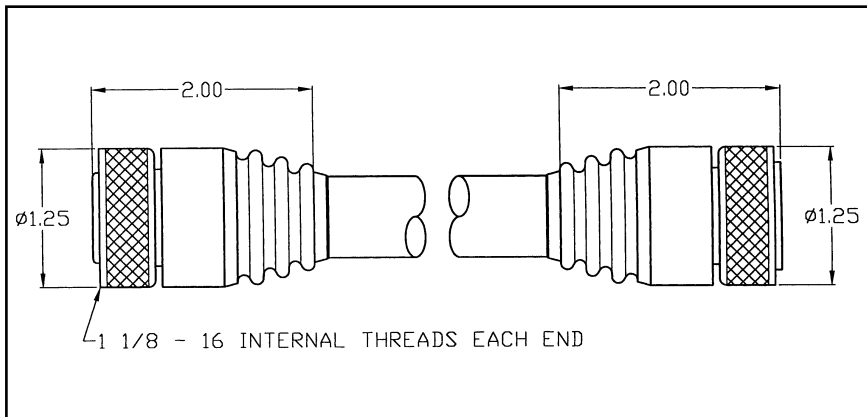
NEMA 1, 3, 4, 6P and 13; IEC IP 68  
-40°C to +105°C

### **Material Data**

Body:  
Cable:  
Contacts:  
Female Contact Plating:  
Coupling Nut:




Yellow, 82A durometer, flame resistant PVC  
Yellow, STOOW per UL62  
Machined Brass per ASTM B-16  
30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
Machined Aluminum with anodize finish and clear sealant

## **DIMENSIONS**





# MINI-LINE STOOW MALE TO FEMALE EXTENSIONS WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
9		1. Orange	600V, 7A	16	3'	X8990-33
		2. Blue			6'	X8990-34
		3. Red-Black			12'	X8990-35
		4. Green-Black			15'	X8990-4031
		5. White			20'	X8990-73
		6. Red			25'	X8990-74
		7. Green			30'	X8990-75
		8. White-Black				
		9. Black				
10		1. Orange	600V, 7A	16	3'	X8991-33
		2. Blue			6'	X8991-34
		3. White-Black			12'	X8991-35
		4. Red-Black			15'	X8991-4056
		5. Green-Black			20'	X8991-73
		6. Orange-Black			25'	X8991-74
		7. Red			30'	X8991-75
		8. Green				
		9. Black				
		10. White				
12		1. Orange	600V, 7A	16	3'	X8992-33
		2. Blue			6'	X8992-34
		3. White-Black			12'	X8992-35
		4. Red-Black			15'	X8992-4035
		5. Green-Black			20'	X8992-73
		6. Orange-Black			25'	X8992-74
		7. Blue-Black			30'	X8992-75
		8. Black-White				
		9. Green				
		10. Red				
		11. White				
		12. Black				

Note: Special lengths available upon request — consult factory.  
 Right angle male and female plugs available — consult factory.  
 Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MINI-LINE STYLE III SOOW PLUG (9, 10 AND 12 POLE)

- Male and Female Plugs
- 16 AWG Standard Color Code
- 600V 105°C SOOW Cable
- Straight and Right Angle Versions
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E169897  
File #LR13963

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
Current Rating: See chart with part number detail  
Voltage Rating: 600 VAC / 600 VDC  
Dielectric Withstand Voltage: 2200 VAC

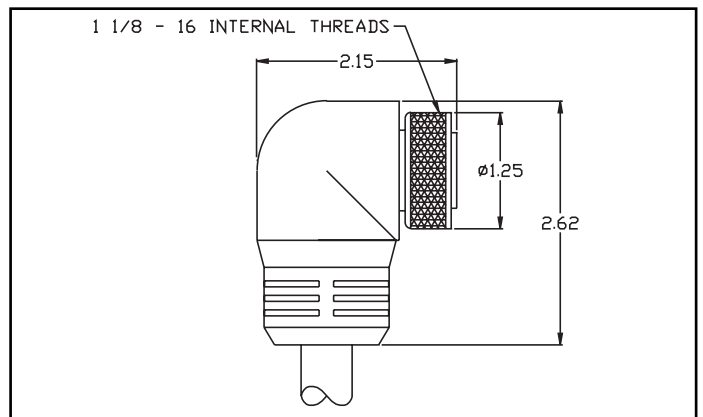
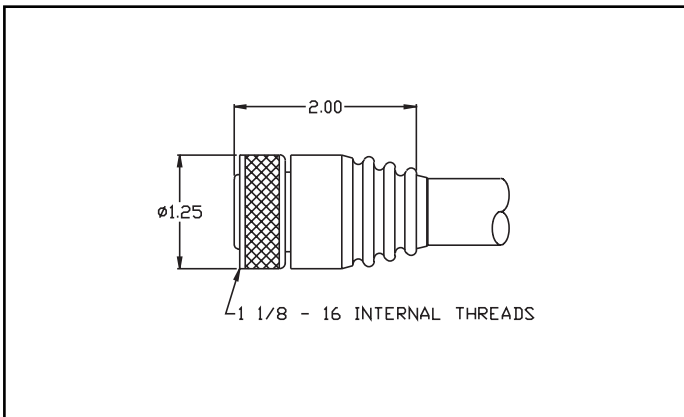
### Environmental Data

Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
Temperature Range: -50°C to +105°C

### Material Data

Body: Yellow, 82A durometer, flame resistant PVC  
Cable: Yellow, SOOW  
Contacts: Machined Brass per ASTM B-16  
Female Contact Plating: 30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
Coupling Nut: Machined Aluminum with anodize finish and clear sealant

## DIMENSIONS



# MINI-LINE SOOW FEMALE PLUG WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
9		1. Orange	600V, 7A	16	3'	X8990-3S	X8990-80S
		2. Blue			6'	X8990-4S	X8990-81S
		3. Red-Black			12'	X8990-5S	X8990-82S
		4. Green-Black			15'	X8990-4027S	X8990-83S
		5. White			20'	X8990-69S	X8990-84S
		6. Red			25'	X8990-70S	X8990-85S
		7. Green			30'	X8990-71S	X8990-86S
		8. White-Black					
		9. Black					
10		1. Orange	600V, 7A	16	3'	X8991-3S	X8991-145S
		2. Blue			6'	X8991-4S	X8991-146S
		3. White-Black			12'	X8991-5S	X8991-147S
		4. Red-Black			15'	X8991-4004S	X8991-148S
		5. Green-Black			20'	X8991-69S	X8991-149S
		6. Orange-Black			25'	X8991-70S	X8991-150S
		7. Red			30'	X8991-71S	X8991-151S
		8. Green					
		9. Black					
		10. White					
12		1. Orange	600V, 7A	16	3'	X8992-3S	X8992-110S
		2. Blue			6'	X8992-4S	X8992-111S
		3. White-Black			12'	X8992-5S	X8992-112S
		4. Red-Black			15'	X8992-4036S	X8992-113S
		5. Green-Black			20'	X8992-69S	X8992-114S
		6. Orange-Black			25'	X8992-70S	X8992-115S
		7. Blue-Black			30'	X8992-71S	X8992-116S
		8. Black-White					
		9. Green					
		10. Red					
		11. White					
		12. Black					

# MINI-LINE SOOW MALE PLUG WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
9		1. Orange	600V, 7A	16	3'	X8990-6S	X8990-87S
		2. Blue			6'	X8990-7S	X8990-88S
		3. Red-Black			12'	X8990-8S	X8990-89S
		4. Green-Black			15'	X8990-4028S	X8990-90S
		5. White			20'	X8990-4029S	X8990-91S
		6. Red			25'	X8990-4030S	X8990-92S
		7. Green			30'	X8990-4017S	X8990-93S
		8. White-Black					
		9. Black					
10		1. Orange	600V, 7A	16	3'	X8991-6S	X8991-152S
		2. Blue			6'	X8991-7S	X8991-153S
		3. White-Black			12'	X8991-8S	X8991-154S
		4. Red-Black			15'	X8991-4067S	X8991-155S
		5. Green-Black			20'	X8991-4068S	X8991-156S
		6. Orange-Black			25'	X8991-4069S	X8991-157S
		7. Red			30'	X8991-4039S	X8991-158S
		8. Green					
		9. Black					
		10. White					
12		1. Orange	600V, 7A	16	3'	X8992-6S	X8992-117S
		2. Blue			6'	X8992-7S	X8992-118S
		3. White-Black			12'	X8992-8S	X8992-119S
		4. Red-Black			15'	X8992-615S	X8992-120S
		5. Green-Black			20'	X8992-4014S	X8992-121S
		6. Orange-Black			25'	X8992-4043S	X8992-122S
		7. Blue-Black			30'	X8992-4031S	X8992-123S
		8. Black-White					
		9. Green					
		10. Red					
		11. White					
		12. Black					

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

# **SPECIFICATIONS MINI-LINE STYLE III SOOW MALE TO FEMALE EXTENSIONS (9, 10 AND 12 POLE)**

- 16 AWG Standard Color Code
- 600V 105°C SOOW Cable
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## **TECHNICAL DATA**

### **Agency Approvals**

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### **Electrical Data**

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### **Environmental Data**

Protection:

NEMA 1, 3, 4, 6P, and 13; IEC IP 68

Temperature Range:

-50°C to +105°C

### **Material Data**

Body:

Yellow, 82A durometer, flame resistant PVC

Cable:

Yellow, SOOW per UL 62

Contacts:

Machined Brass per ASTM B-16

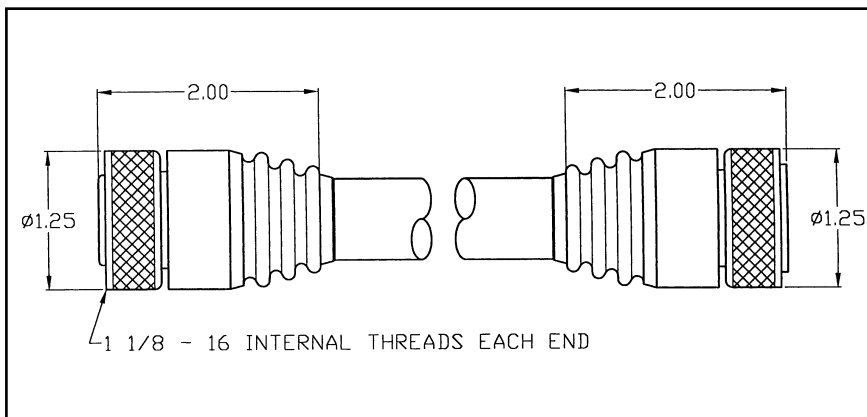
Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:




Machined Aluminum with anodize finish and clear sealant

## **DIMENSIONS**





# MINI-LINE SOOW MALE TO FEMALE EXTENSIONS WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
9		1. Orange	600V, 7A	16	3'	X8990-33S
		2. Blue			6'	X8990-34S
		3. Red-Black			12'	X8990-35S
		4. Green-Black			15'	X8990-4031S
		5. White			20'	X8990-73S
		6. Red			25'	X8990-74S
		7. Green			30'	X8990-75S
		8. White-Black				
		9. Black				
10		1. Orange	600V, 7A	16	3'	X8991-33S
		2. Blue			6'	X8991-34S
		3. White-Black			12'	X8991-35S
		4. Red-Black			15'	X8991-4056S
		5. Green-Black			20'	X8991-73S
		6. Orange-Black			25'	X8991-74S
		7. Red			30'	X8991-75S
		8. Green				
		9. Black				
		10. White				
12		1. Orange	600V, 7A	16	3'	X8992-33S
		2. Blue			6'	X8992-34S
		3. White-Black			12'	X8992-35S
		4. Red-Black			15'	X8992-4035S
		5. Green-Black			20'	X8992-73S
		6. Orange-Black			25'	X8992-74S
		7. Blue-Black			30'	X8992-75S
		8. Black-White				
		9. Green				
		10. Red				
		11. White				
		12. Black				

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MINI-LINE STYLE III RECEPTACLES (9, 10 AND 12 POLE)

- Male and Female Receptacles
- Standard Color Code
- 16 AWG Pigtail Leads
- 600V 105°C
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E 169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

### Material Data

Insert:

Yellow, 82A durometer, flame resistant PVC

Pigtail leads:

Color Coded type MTW or AWM style 1015/1230

Contacts:

Machined Brass per ASTM B-16

Receptacle Shell:

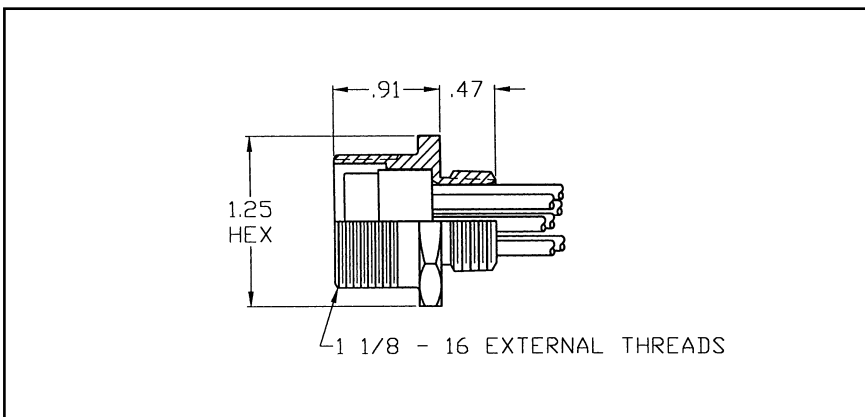
Machined Aluminum with anodize finish and clear sealant

303 Stainless Steel




Potting Compound:

Black rigid epoxy




## DIMENSIONS



## MINI-LINE FEMALE RECEPTACLES WITH MACHINED ALUMINUM RECEPTACLE SHELL




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" NPT
9		1. Orange 2. Blue 3. Red-Black 4. Green-Black 5. White 6. Red 7. Green 8. White-Black 9. Black	600V, 7A	16	12"	X8990-1
10		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	600V, 7A	16	12"	X8991-1
12		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Blue-Black 8. Black-White 9. Green 10. Red 11. White 12. Black	600V, 7A	16	12"	X8992-1

## MINI-LINE MALE RECEPTACLES WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" NPT
9		1. Orange 2. Blue 3. Red-Black 4. Green-Black 5. White 6. Red 7. Green 8. White-Black 9. Black	600V, 7A	16	12"	X8990-2
10		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	600V, 7A	16	12"	X8991-2
12		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Blue-Black 8. Black-White 9. Green 10. Red 11. White 12. Black	600V, 7A	16	12"	X8992-2

Note: Special lead lengths available upon request — consult factory.




# MINI-LINE FEMALE RECEPTACLES WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" NPT
9		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. Red-Black</li> <li>4. Green-Black</li> <li>5. White</li> <li>6. Red</li> <li>7. Green</li> <li>8. White-Black</li> <li>9. Black</li> </ol>	600V, 7A	16	12"	X8990-1X
10		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. White-Black</li> <li>4. Red-Black</li> <li>5. Green-Black</li> <li>6. Orange-Black</li> <li>7. Red</li> <li>8. Green</li> <li>9. Black</li> <li>10. White</li> </ol>	600V, 7A	16	12"	X8991-1X
12		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. White-Black</li> <li>4. Red-Black</li> <li>5. Green-Black</li> <li>6. Orange-Black</li> <li>7. Blue-Black</li> <li>8. Black-White</li> <li>9. Green</li> <li>10. Red</li> <li>11. White</li> <li>12. Black</li> </ol>	600V, 7A	16	12"	X8992-1X

Note: Special lead lengths available upon request — consult factory.



# MINI-LINE MALE RECEPTACLES WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" NPT
9		1. Orange 2. Blue 3. Red-Black 4. Green-Black 5. White 6. Red 7. Green 8. White-Black 9. Black	600V, 7A	16	12"	X8990-2X
10		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	600V, 7A	16	12"	X8991-2X
12		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Blue-Black 8. Black-White 9. Green 10. Red 11. White 12. Black	600V, 7A	16	12"	X8992-2X

Note: Special lead lengths available upon request — consult factory.

## SELECTION GUIDE MINI-LINE ADAPTERS

POLES	FEMALE MINI TO MALE AC MICRO	FEMALE AC MICRO TO MALE MINI
2	5000108-1	5000113-35
3	5000109-1	5000114-35
4	5000110-1	5000115-35
5	5000111-1	5000116-35



## SELECTION GUIDE MINI-LINE CLOSURE CAPS AND ADAPTERS

### CLOSURE CAPS / METAL

STYLE	PLUGS	RECEPTACLES
I	3316582-2A	3316582-1A
II	3316966	3316965
III	3317071-1	3317071

### CLOSURE CAPS / PLASTIC

STYLE	PLUGS	RECEPTACLES
I	A600196-6	A600196-2
II	A600494-4	A600494-3

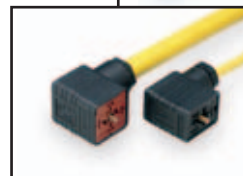
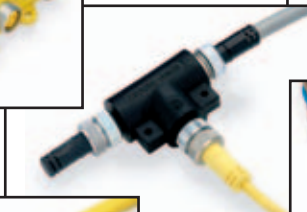
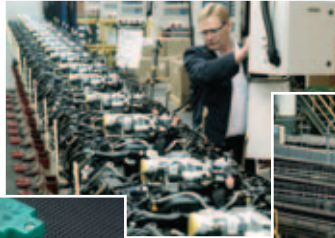
### IN-LINE ADAPTERS

STYLE	METAL	PLASTIC
I	1316511	600216-2
II	1316964	600507-4
III	1317142	



# CROUSE-HINDS® MOLDED PRODUCTS MINIATURE CONNECTORS

• SERVICE • PERFORMANCE • QUALITY •  
• CUSTOMIZATION • RELIABILITY •  
• AVAILABILITY •



**CROUSE-HINDS HAS**

**“THE TOUGH LINE FOR TOUGH JOBS”**

When it comes to dependable, quick-disconnect products for sensor and control devices, Crouse-Hinds® Molded Products miniature connectors are among the most reliable and versatile in the industry.

Start with a full line of industry proven products, which extends to our new line of products for plant floor networks such as DeviceNet™, Seri-Plex™ and SDS™.

And if our standard products don't meet your need, we can customize connectors to meet your specific requirement.

**Mini-Plex™** - features 4-, 6- and 8-port configurations with multiple wiring variations: parallel, series, LED and solenoid.



**Suremate™** - features 2- through 4-pin configurations with #14 AWG and #12 AWG conductors.



**Network Products** - features physical layer products for DeviceNet™, Seri-Plex™ and SDS™.



**Mini-Line™** - With three connector sizes up to twelve contacts, the Mini-Line is manufactured in thermoplastic with STOOW cable or thermoset with SOOW cable versions.



**Micro-Mini™** - features the three standard pin configurations used by major sensor and control manufacturers.



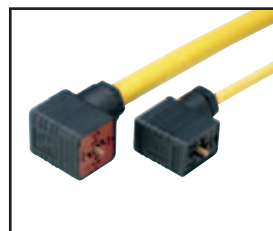
**Pico-Line™** - features 3- or 4-pin configurations in snap-in or coupler styles.



**Micro-Plex™** - features 4-, 6- and 8-port configurations with top- and side-mounted designs and multiple wiring variations: parallel and LED (PNP and NPN versions).



**Change-Out™** - features 2- to 9-pin configurations with #18 AWG through #10 AWG conductors.



**DIN 43650** - features DIN 43650-A, DIN 43650-B and DIN 43650-C valve connector with various circuit options.

The product information published in this catalog is sufficiently accurate for most purposes, but is not guaranteed. Product information is subject to change without notice.

DeviceNet is a trademark of Allen-Bradley.  
Seri-Plex is a trademark of Square D Company.  
SDS is a trademark of Honeywell Microswitch.



## ***The Advantages of Softwiring versus Hardwiring***

Using connectors keeps your electrical equipment productive by allowing you to quickly and easily replace defective electrical components. All you have to do is unplug the damaged or malfunctioning unit and plug in the prewired replacement. It's that easy.



You'll have lower maintenance and repair costs, as well as reduced machine down time. Most importantly, you'll keep your equipment productive.



## ***With softwiring, here's what you get***

- Connectors that are prewired eliminate miswiring potential; they are polarized to insure proper engagement.
- Quick component change-out ability minimizes exposure to wet, dirty and oily conditions; facilitates change-out in hard-to-reach places.
- Easy and inexpensive component replacement. If the cable is cut, simply replace the cable and reuse the device; if the device is damaged, simply replace the device and reuse the cable.
- Lower maintenance costs, which mean lower labor costs. In many cases the change can be made by a mechanic, rather than an electrician.
- The elimination of labor-intensive repairs and maintenance, saving time and money.
- Circuit integrity through the use of watertight and corrosion-resistant connectors that seal out contaminants.

# APPLICATIONS

Crouse-Hinds connectors are engineered for superior reliability for the most hostile, abrasive environments. Designed to provide dependable service for years of trouble-free service. When it comes to selecting which connector to use, you only have to think about two things: Breadth of line and performance. Crouse-Hinds excels in both.

We have a complete line of precision molded miniature plugs and receptacles available in many different styles and configurations. They are designed for use with AC and DC sensor and control devices, solenoid valves, small motors and other small electrical components found on automated production lines. They are manufactured to withstand the most severe conditions. Factory molded, their watertight and corrosion-resistant design provides an environmentally sealed connector for long, dependable and trouble-free operations.



## Typical Applications:

- Conveyors
- Power Tools
- Cranes and Hoists
- Automotive Assembly
- Material Handling
- Portable Machinery
- Robotics
- Welding Equipment
- Automated Machinery
- Food Processing
- Machine Tools
- Molds and Dies
- Pulp and Paper
- Appliance Assembly Lines
- Instrumentation
- Test Equipment
- Packaging Machinery
- Medical Equipment
- Textile Machines
- Portable Lighting Towers

# CUSTOMIZATION

Crouse-Hinds Molded Products offers many products that are not shown in this catalog. We specialize in custom products for OEM applications designed specifically to their unique requirements.



We have a staff of experienced design engineers located at the factory that utilize the latest in technology, including computer-aided design and modeling. This allows us to quickly respond to requests for product extensions or variations of current products.

We can also design a new connector for special requirements. A capable staff of experienced tool and model makers is also located on-site for quick turn around of new products.



When it comes to responsiveness, quick turn-around of prototypes and supplying products precisely to your specifications, Crouse-Hinds Molded Products is the leader in the connector industry.



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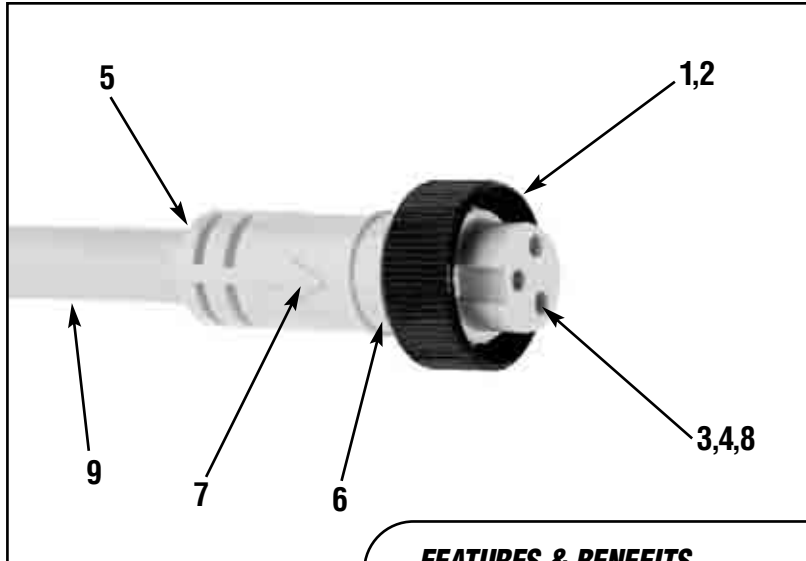
# MINI-LINE CONNECTORS

## 2 THROUGH 12 CONTACTS

**“THE  
TOUGH LINE  
FOR TOUGH  
JOBS”**

Crouse-Hinds Mini-Line connector, molded to heavy-duty ST00W and S00W cable, have been designed specifically for abusive applications in which the cable is exposed to constant flexing and/or dirty, oily, or harsh environments. They also have excellent resistance to welding flash, hot chips and other severe conditions found in demanding manufacturing settings.

The molded-to-cable construction becomes an integral part of the cable assembly, creating a bond that is impervious to penetration from external contaminants. Its one-piece connector head is made from material with the same physical properties as the cable jacket and provides far superior service.



### FEATURES & BENEFITS

- 1 **Epoxy-coated coupler** that passes 1000-hour salt-spray test per MIL-STD-202F for exceptional corrosion resistance.
- 2 **Vibration-resistant ratchet coupler** design prevents loosening in severe, high-vibration applications.
- 3 **Superior female contact design** with stainless steel sleeve tested at 5,000 insertions with minimal retention degradation.
- 4 **Female contact plating** provides superior conductivity and corrosion resistance; 30 micro-inch gold over 50 micro-inch nickel plating.
- 5 **Connector-to-cable molded junction** securely bonds for excellent reliability.
- 6 **Internal contact support** maintains pin location both pin-to-pin and pin-to-face dimensions.
- 7 **Indicating arrow** for easy identification and proper keyway alignment.
- 8 **Shroud and cork** design exceeds IP-68 and NEMA 6P rating (Rated 1,200 PSI hose down spray).
- 9 **Easy stripping PVC jacketed cable** with “fillerless” design allows fast stripping with simple hand tools with high-flex “tinned” copper stranding for improved flexibility. Temperature rated at -40°C to 105°C on standard cable.  
**Cable options** available for industrial applications with the following types:
  - **ST00W cable** with PVC jacket having oil resistant jacket and conductors
  - **S00W “thermoset” cable** with oil resistant jacket/conductors with higher resistance to automotive fluids
  - **SEOW “TPE” cable** with oil resistant jacket/conductors having elastomer jacket
  - **High-flex ROBOTIC cable** provides superior flexing in applications where combined continuous twisting and bending stresses occur.
- 10 Every unit is **100% electrically tested** using state of the art automated test equipment.

# SPECIFICATIONS MINI-LINE STYLE I STOOW PLUGS (2-6 POLE)

- Male and Female Plugs
- 16 AWG Cable (except 6 pole #18)
- 600V 105°C STOOW Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications
- Vibration Proof Ratchet Design



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E 169897  
File #LR13963

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
Current Rating: See chart with part number detail  
Voltage Rating: 600 VAC / 600 VDC  
Dielectric Withstand Voltage: 2200 VAC

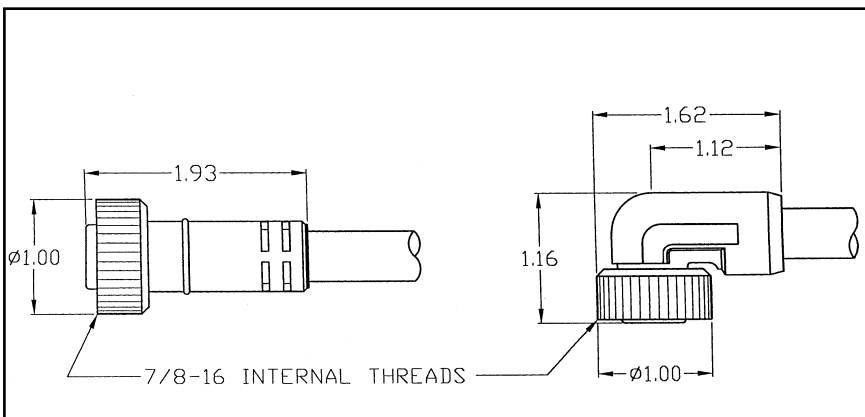
### Environmental Data

Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
Temperature Range:  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$   
Corrosion Resistance: 1000 hr. salt spray per MIL-STD-202F  
High Pressure Water Test: 1200 PSI spray






### Material Data

Body: Yellow, 90A durometer, flame resistant PVC  
Cable: Yellow, STOOW per UL62  
Contacts: Machined Brass per ASTM B-16  
Female Contact Plating: 30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
Coupling Nut: Diecast Zamak 5 with black epoxy coat  
Nylon 6/6 weather stabilized  
303 Stainless Steel






## DIMENSIONS



## MINI-LINE STOOW FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-3	5000108-11
					6'	5000108-4	5000108-12
					12'	5000108-5	5000108-13
					15'	5000108-110	5000108-4036
					20'	5000108-61	5000108-4037
					25'	5000108-4035	5000108-4038
3		1. Green 2. Black 3. White	600V, 13A	16	3'	5000109-3C	5000109-11C
					6'	5000109-4C	5000109-12C
					12'	5000109-5C	5000109-13C
					15'	5000109-42C	5000109-4109C
					20'	5000109-308C	5000109-20C
					25'	5000109-309C	5000109-277C
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-3	5000110-11
					6'	5000110-4	5000110-12
					12'	5000110-5	5000110-13
					15'	5000110-38	5000110-4088
					20'	5000110-19	5000110-20
					25'	5000110-624	5000110-4073
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	3'	5000111-3C	5000111-11C
					6'	5000111-4C	5000111-12C
					12'	5000111-5C	5000111-13C
					15'	5000111-91C	5000111-4049C
					20'	5000111-19C	5000111-20C
					25'	5000111-4118C	5000111-4117C
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-3	5000120-11
					6'	5000120-4	5000120-12
					12'	5000120-5	5000120-13
					15'	5000120-4052	5000120-4053
					20'	5000120-308	5000120-20
					25'	5000120-309	5000120-4021
					30'	5000120-310	5000120-4022

## MINI-LINE STOOW MALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-6	5000108-14
					6'	5000108-7	5000108-15
					12'	5000108-8	5000108-16
					15'	5000108-4040	5000108-4043
					20'	5000108-4041	5000108-4044
					25'	5000108-101	5000108-4045
3		1. Green 2. Black 3. White	600V, 13A	16	3'	5000109-6C	5000109-14C
					6'	5000109-7C	5000109-15C
					12'	5000109-8C	5000109-16C
					15'	5000109-4204C	5000109-4205C
					20'	5000109-4039C	5000109-4112C
					25'	5000109-276C	5000109-4113C
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-6	5000110-14
					6'	5000110-7	5000110-15
					12'	5000110-8	5000110-16
					15'	5000110-4012	5000110-4091
					20'	5000110-4024	5000110-4092
					25'	5000110-4090	5000110-4093
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	3'	5000111-6C	5000111-14C
					6'	5000111-7C	5000111-15C
					12'	5000111-8C	5000111-16C
					15'	5000111-4194C	5000111-4195C
					20'	5000111-4112C	5000111-4135C
					25'	5000111-4067C	5000111-4115C
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-6	5000120-14
					6'	5000120-7	5000120-15
					12'	5000120-8	5000120-16
					15'	5000120-4040	5000120-4056
					20'	5000120-4054	5000120-4057
					25'	5000120-4055	5000120-4058
					30'	5000120-4029	5000120-4059

\*6 pole plugs use 18 gauge conductors for Style I.

Note: Special lengths available upon request — consult factory.



# MINI-LINE STOOV FEMALE PLUG WITH NYLON COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-3N	5000108-11N
					6'	5000108-4N	5000108-12N
					12'	5000108-5N	5000108-13N
					15'	5000108-110N	5000108-4036N
					20'	5000108-61N	5000108-4037N
					25'	5000108-4035N	5000108-4038N
3		1. Green 2. Black 3. White	600V, 13A	16	30'	5000108-63N	5000108-4039N
					3'	5000109-3CN	5000109-11CN
					6'	5000109-4CN	5000109-12CN
					12'	5000109-5CN	5000109-13CN
					15'	5000109-42CN	5000109-4109CN
					20'	5000109-308CN	5000109-20CN
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	25'	5000109-309CN	5000109-277CN
					30'	5000109-310CN	5000109-4203CN
					3'	5000110-3N	5000110-11N
					6'	5000110-4N	5000110-12N
					12'	5000110-5N	5000110-13N
					15'	5000110-4027N	5000110-4088N
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	20'	5000110-19N	5000110-20N
					25'	5000110-624N	5000110-4073N
					30'	5000110-310N	5000110-4089N
					3'	5000111-3CN	5000111-11CN
					6'	5000111-4CN	5000111-12CN
					12'	5000111-5CN	5000111-13CN
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	15'	5000111-4093CN	5000111-4049CN
					20'	5000111-19CN	5000111-20CN
					25'	5000111-4118CN	5000111-4117CN
					30'	5000111-4015CN	5000111-4111CN
					3'	5000120-3N	5000120-11N
					6'	5000120-4N	5000120-12N
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	12'	5000120-5N	5000120-13N
					15'	5000120-4052N	5000120-4053N
					20'	5000120-308N	5000120-20N
					25'	5000120-309N	5000120-4021N
					30'	5000120-310N	5000120-4022N

# MINI-LINE STOOV MALE PLUG WITH NYLON COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-6N	5000108-14N
					6'	5000108-7N	5000108-15N
					12'	5000108-8N	5000108-16N
					15'	5000108-4040N	5000108-4043N
					20'	5000108-4041N	5000108-4044N
					25'	5000108-101N	5000108-4045N
3		1. Green 2. Black 3. White	600V, 13A	16	30'	5000108-4042N	5000108-4046N
					3'	5000109-6CN	5000109-14CN
					6'	5000109-7CN	5000109-15CN
					12'	5000109-8CN	5000109-16CN
					15'	5000109-4204CN	5000109-4205CN
					20'	5000109-4039CN	5000109-4112CN
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	25'	5000109-276CN	5000109-4113CN
					30'	5000109-4010CN	5000109-4114CN
					3'	5000110-6N	5000110-14N
					6'	5000110-7N	5000110-15N
					12'	5000110-8N	5000110-16N
					15'	5000110-4012N	5000110-4091N
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	20'	5000110-4024N	5000110-4092N
					25'	5000110-4090N	5000110-4093N
					30'	5000110-162N	5000110-4094N
					3'	5000111-6CN	5000111-14CN
					6'	5000111-7CN	5000111-15CN
					12'	5000111-8CN	5000111-16CN
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	15'	5000111-4194CN	5000111-4195CN
					20'	5000111-4112CN	5000111-4135CN
					25'	5000111-4067CN	5000111-4115CN
					30'	5000111-4014CN	5000111-4196CN
					3'	5000120-6N	5000120-14N
					6'	5000120-7N	5000120-15N
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	12'	5000120-8N	5000120-16N
					15'	5000120-4040N	5000120-4056N
					20'	5000120-4054N	5000120-4057N
					25'	5000120-4055N	5000120-4058N
					30'	5000120-4029N	5000120-4059N

\*6 pole plugs use 18 gauge conductors for Style I.

Note: Special lengths available upon request — consult factory.





# MINI-LINE STOOW FEMALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-3X	5000108-11X
					6'	5000108-4X	5000108-12X
					12'	5000108-5X	5000108-13X
					15'	5000108-110X	5000108-4036X
					20'	5000108-61X	5000108-4037X
					25'	5000108-4035X	5000108-4038X
3		1. Green 2. Black 3. White	600V, 13A	16	3'	5000109-3CX	5000109-11CX
					6'	5000109-4CX	5000109-12CX
					12'	5000109-5CX	5000109-13CX
					15'	5000109-42CX	5000109-4109CX
					20'	5000109-308CX	5000109-20CX
					25'	5000109-309CX	5000109-277CX
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-3X	5000110-11X
					6'	5000110-4X	5000110-12X
					12'	5000110-5X	5000110-13X
					15'	5000110-4027X	5000110-4088X
					20'	5000110-19X	5000110-20X
					25'	5000110-624X	5000110-4073X
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	3'	5000111-3CX	5000111-11CX
					6'	5000111-4CX	5000111-12CX
					12'	5000111-5CX	5000111-13CX
					15'	5000111-4093CX	5000111-4049CX
					20'	5000111-19CX	5000111-20CX
					25'	5000111-4118CX	5000111-4117CX
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-3X	5000120-11X
					6'	5000120-4X	5000120-12X
					12'	5000120-5X	5000120-13X
					15'	5000120-4052X	5000120-4053X
					20'	5000120-308X	5000120-20X
					25'	5000120-309X	5000120-4021X
30'	5000120-310X	5000120-4022X					

# MINI-LINE STOOW MALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-6X	5000108-14X
					6'	5000108-7X	5000108-15X
					12'	5000108-8X	5000108-16X
					15'	5000108-4040X	5000108-4043X
					20'	5000108-4041X	5000108-4044X
					25'	5000108-101X	5000108-4045X
3		1. Green 2. Black 3. White	600V, 13A	16	3'	5000109-6CX	5000109-14CX
					6'	5000109-7CX	5000109-15CX
					12'	5000109-8CX	5000109-16CX
					15'	5000109-4204CX	5000109-4205CX
					20'	5000109-4039CX	5000109-4112CX
					25'	5000109-276CX	5000109-4113CX
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-6X	5000110-14X
					6'	5000110-7X	5000110-15X
					12'	5000110-8X	5000110-16X
					15'	5000110-4012X	5000110-4091X
					20'	5000110-4024X	5000110-4092X
					25'	5000110-4090X	5000110-4093X
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	3'	5000111-6CX	5000111-14CX
					6'	5000111-7CX	5000111-15CX
					12'	5000111-8CX	5000111-16CX
					15'	5000111-4194CX	5000111-4195CX
					20'	5000111-4112CX	5000111-4135CX
					25'	5000111-4067CX	5000111-4115CX
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-6X	5000120-14X
					6'	5000120-7X	5000120-15X
					12'	5000120-8X	5000120-16X
					15'	5000120-4040X	5000120-4056X
					20'	5000120-4054X	5000120-4057X
					25'	5000120-4055X	5000120-4058X
30'	5000120-4029X	5000120-4059X					

\*6 pole plugs use 18 gauge conductors for Style I.

Note: Special lengths available upon request — consult factory.



# SPECIFICATIONS MINI-LINE STYLE I STOOW MALE TO FEMALE EXTENSIONS (2-6 POLE)

- Male and Female Plugs
- 16 AWG Cable (except 6 pole #18)
- 600V 105°C STOOW Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications
- Vibration Proof Ratchet Design



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-40°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Cable:

Yellow, STOOW per UL62

Contacts:

Machined Brass per ASTM B-16

Female Contact Plating:

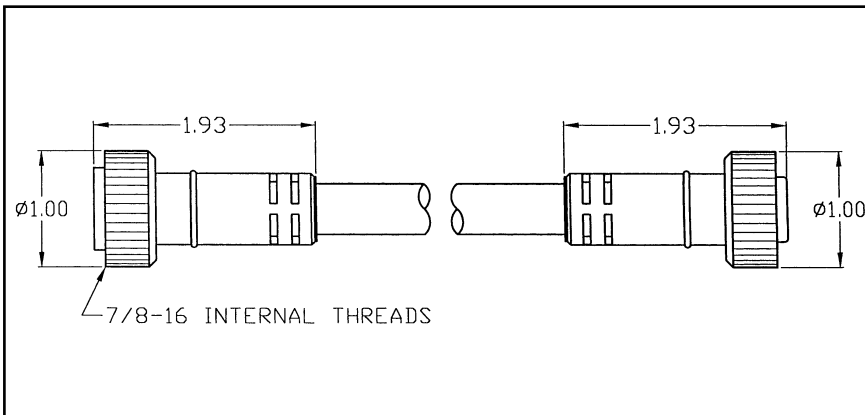
30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Diecast Zamak 5 with black epoxy coat

Nylon 6/6 weather stabilized

## DIMENSIONS



# MINI-LINE STOOW MALE TO FEMALE EXTENSIONS

WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
2		1. White 2. Black	600V, 13A	16	3'	5000108-25
					6'	5000108-26
					12'	5000108-27
					15'	5000108-4048
					20'	5000108-4024
					25'	5000108-4027
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	3'	5000109-25
					6'	5000109-26
					12'	5000109-27
					15'	5000109-265
					20'	5000109-312
					25'	5000109-313
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-25
					6'	5000110-26
					12'	5000110-27
					15'	5000110-4026
					20'	5000110-4008
					25'	5000110-4050
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	3'	5000111-25
					6'	5000111-26
					12'	5000111-27
					15'	5000111-211
					20'	5000111-4023
					25'	5000111-4044
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-25
					6'	5000120-26
					12'	5000120-27
					15'	5000120-90
					20'	5000120-312
					25'	5000120-313
30'	5000120-314					

# MINI-LINE STOOW MALE TO FEMALE EXTENSIONS WITH NYLON COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
2		1. White 2. Black	600V, 13A	16	3'	5000108-25N
					6'	5000108-26N
					12'	5000108-27N
					15'	5000108-4048N
					20'	5000108-4024N
					25'	5000108-4027N
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	3'	5000109-25N
					6'	5000109-26N
					12'	5000109-27N
					15'	5000109-265N
					20'	5000109-312N
					25'	5000109-313N
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-25N
					6'	5000110-26N
					12'	5000110-27N
					15'	5000110-4026N
					20'	5000110-4008N
					25'	5000110-4050N
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	3'	5000111-25N
					6'	5000111-26N
					12'	5000111-27N
					15'	5000111-211N
					20'	5000111-4023N
					25'	5000111-4044N
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-25N
					6'	5000120-26N
					12'	5000120-27N
					15'	5000120-90N
					20'	5000120-312N
					25'	5000120-313N
30'	5000120-314N					

\*6 pole plugs use 18 gauge conductors for Style I

Note:  
Special lengths available upon request — consult factory. Stainless steel coupling nut available — consult factory.



# SPECIFICATIONS MINI-LINE STYLE I SOOW PLUGS (2-5 POLE)

- Male and Female Plugs
- 16 AWG Cable
- 600V 105°C SOOW Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Proof Ratchet Design



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-50°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Cable:

Yellow, SOOW

Contacts:

Machined Brass per ASTM B-16

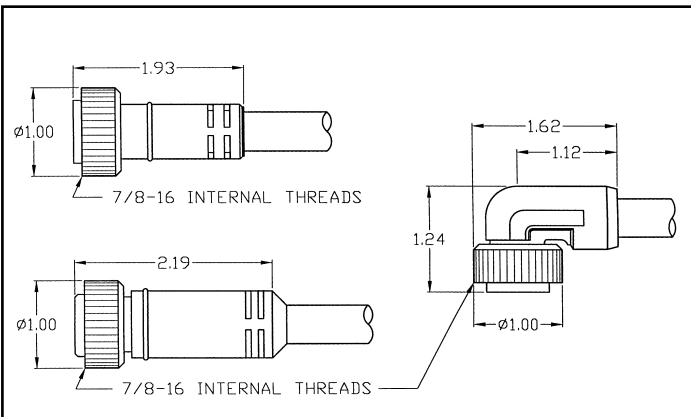
Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Diecast Zamak 5 with black epoxy coat

## DIMENSIONS





## MINI-LINE SOOW FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-3S	5000108-11S
					6'	5000108-4S	5000108-12S
					12'	5000108-5S	5000108-13S
					15'	5000108-110S	5000108-4036S
					20'	5000108-61S	5000108-4037S
					25'	5000108-4035S	5000108-4038S
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	30'	5000108-63S	5000108-4039S
					3'	5000109-3S	5000109-11S
					6'	5000109-4S	5000109-12S
					12'	5000109-5S	5000109-13S
					15'	5000109-42S	5000109-4109S
					20'	5000109-308S	5000109-20S
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	25'	5000109-309S	5000109-277S
					30'	5000109-310S	5000109-4203S
					3'	5000110-3S	5000110-11S
					6'	5000110-4S	5000110-12S
					12'	5000110-5S	5000110-13S
					15'	5000110-4027S	5000110-4088S
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	20'	5000110-19S	5000110-20S
					25'	5000110-624S	5000110-4073S
					30'	5000110-310S	5000110-4089S
					3'	5000111-3S	5000111-11S
					6'	5000111-4S	5000111-12S
					12'	5000111-5S	5000111-13S
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	15'	5000111-4093S	5000111-4049S
					20'	5000111-19S	5000111-20S
					25'	5000111-4118S	5000111-4117S
					30'	5000111-4015S	5000111-4111S

## MINI-LINE SOOW MALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-6S	5000108-14S
					6'	5000108-7S	5000108-15S
					12'	5000108-8S	5000108-16S
					15'	5000108-4040S	5000108-4043S
					20'	5000108-4041S	5000108-4044S
					25'	5000108-101S	5000108-4045S
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	30'	5000108-4042S	5000108-4046S
					3'	5000109-6S	5000109-14S
					6'	5000109-7S	5000109-15S
					12'	5000109-8S	5000109-16S
					15'	5000109-4204S	5000109-4205S
					20'	5000109-4039S	5000109-4112S
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	25'	5000109-276S	5000109-4113S
					30'	5000109-4010S	5000109-4114S
					3'	5000110-6S	5000110-14S
					6'	5000110-7S	5000110-15S
					12'	5000110-8S	5000110-16S
					15'	5000110-4012S	5000110-4091S
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	20'	5000110-4024S	5000110-4092S
					25'	5000110-4090S	5000110-4093S
					30'	5000110-162S	5000110-4094S
					3'	5000111-6S	5000111-14S
					6'	5000111-7S	5000111-15S
					12'	5000111-8S	5000111-16S
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	15'	5000111-4194S	5000111-4195S
					20'	5000111-4112S	5000111-4135S
					25'	5000111-4067S	5000111-4115S
					30'	5000111-4014S	5000111-4196S

Note: Special lengths available upon request — consult factory.  
Nylon and stainless steel coupling nuts available — consult factory.

# SPECIFICATIONS MINI-LINE STYLE I SOOW MALE TO FEMALE EXTENSIONS (2-5 POLE)

- 16 AWG Cable
- 600V 105°C SOOW Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Proof Ratchet Design



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E 169897  
File #LR13963

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
Current Rating: See chart with part number detail  
Voltage Rating: 600 VAC / 600 VDC  
Dielectric Withstand Voltage: 2200 VAC

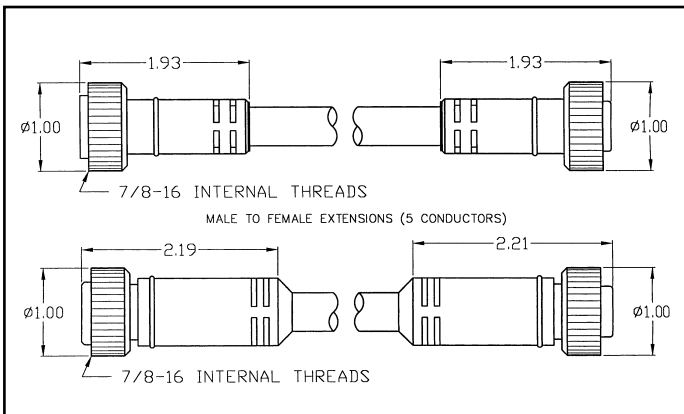
### Environmental Data

Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
Temperature Range:  $-50^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$   
Corrosion Resistance: 1000 hr. salt spray per MIL-STD-202F  
High Pressure Water Test: 1200 PSI spray

### Material Data





Body: Yellow, 90A durometer, flame resistant PVC  
Cable: Yellow, SOOW  
Contacts: Machined Brass per ASTM B-16  
Female Contact Plating: 30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
Coupling Nut: Diecast Zamak 5 with black epoxy coat

## DIMENSIONS



# MINI-LINE SOOW MALE TO FEMALE EXTENSIONS

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
2		1. White 2. Black	600V, 13A	16	3'	5000108-25S
					6'	5000108-26S
					12'	5000108-27S
					15'	5000108-152S
					20'	5000108-4024S
					25'	5000108-4027S
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	3'	5000109-25S
					6'	5000109-26S
					12'	5000109-27S
					15'	5000109-265S
					20'	5000109-312S
					25'	5000109-313S
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-25S
					6'	5000110-26S
					12'	5000110-27S
					15'	5000110-4026S
					20'	5000110-4008S
					25'	5000110-4050S
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	3'	5000111-25S
					6'	5000111-26S
					12'	5000111-27S
					15'	5000111-211S
					20'	5000111-4023S
					25'	5000111-4044S
					30'	5000111-4120S

Note: Special lengths available upon request — consult factory.  
 Nylon and stainless steel coupling nuts available — consult factory.  
 Right angle male and female plugs available — consult factory.

# SPECIFICATIONS MINI-LINE STYLE I SEOW PLUGS (2-6 POLE)

- Male and Female Plugs
- 16 AWG Cable (except 6 pole #18)
- 600V 105°C SEOW Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Proof Ratchet Design



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E 169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Cable:

Yellow, SEOW per UL62

Contacts:

Machined Brass per ASTM B-16

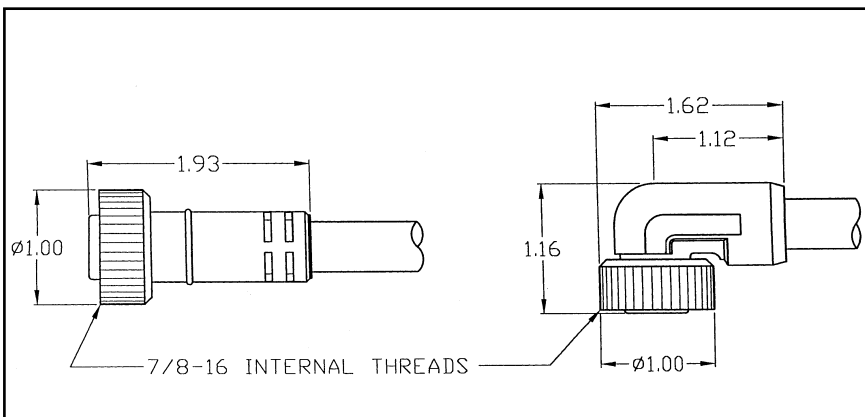
Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Diecast Zamak 5 with black epoxy coat

## DIMENSIONS





# MINI-LINE SEOW FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-3A	5000108-11A
					6'	5000108-4A	5000108-12A
					12'	5000108-5A	5000108-13A
					15'	5000108-110A	5000108-4036A
					20'	5000108-61A	5000108-4037A
					25'	5000108-4035A	5000108-4038A
3		1. Green 2. Black 3. White	600V, 13A	16	3'	5000109-3A	5000109-11A
					6'	5000109-4A	5000109-12A
					12'	5000109-5A	5000109-13A
					15'	5000109-42A	5000109-4109A
					20'	5000109-308A	5000109-20A
					25'	5000109-309A	5000109-277A
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-3A	5000110-11A
					6'	5000110-4A	5000110-12A
					12'	5000110-5A	5000110-13A
					15'	5000110-4027A	5000110-4088A
					20'	5000110-19A	5000110-20A
					25'	5000110-624A	5000110-4073A
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	3'	5000111-3A	5000111-11A
					6'	5000111-4A	5000111-12A
					12'	5000111-5A	5000111-13A
					15'	5000111-4093A	5000111-4049A
					20'	5000111-19A	5000111-20A
					25'	5000111-4118A	5000111-4117A
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-3A	5000120-11A
					6'	5000120-4A	5000120-12A
					12'	5000120-5A	5000120-13A
					15'	5000120-4052A	5000120-4053A
					20'	5000120-308A	5000120-20A
					25'	5000120-309A	5000120-4021A
30'	5000120-310A	5000120-4022A					

# MINI-LINE SEOW MALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	3'	5000108-6A	5000108-14A
					6'	5000108-7A	5000108-15A
					12'	5000108-8A	5000108-16A
					15'	5000108-4040A	5000108-4043A
					20'	5000108-4041A	5000108-4044A
					25'	5000108-101A	5000108-4045A
3		1. Green 2. Black 3. White	600V, 13A	16	3'	5000109-6A	5000109-14A
					6'	5000109-7A	5000109-15A
					12'	5000109-8A	5000109-16A
					15'	5000109-4204A	5000109-4205A
					20'	5000109-4039A	5000109-4112A
					25'	5000109-276A	5000109-4113A
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-6A	5000110-14A
					6'	5000110-7A	5000110-15A
					12'	5000110-8A	5000110-16A
					15'	5000110-4012A	5000110-4091A
					20'	5000110-4024A	5000110-4092A
					25'	5000110-4090A	5000110-4093A
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	3'	5000111-6A	5000111-14A
					6'	5000111-7A	5000111-15A
					12'	5000111-8A	5000111-16A
					15'	5000111-4194A	5000111-4195A
					20'	5000111-4112A	5000111-4135A
					25'	5000111-4067A	5000111-4115A
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-6A	5000120-14A
					6'	5000120-7A	5000120-15A
					12'	5000120-8A	5000120-16A
					15'	5000120-4040A	5000120-4056A
					20'	5000120-4054A	5000120-4057A
					25'	5000120-4055A	5000120-4058A
30'	5000120-4029A	5000120-4059A					

\*6 pole plugs use 18 gauge conductors for Style I.

Note: Special lengths available upon request — consult factory.

Nylon and stainless steel coupling nuts available — consult factory.



# SPECIFICATIONS MINI-LINE STYLE I STOOW AUTOMOTIVE PLUGS (3 AND 5 POLE)

- Male and Female Plugs
- 16 AWG Automotive Color Code
- 600V 105°C STOOW Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Proof Ratchet Design



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-40°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Cable:

Yellow, STOOW per UL62

Contacts:

Machined Brass per ASTM B-16

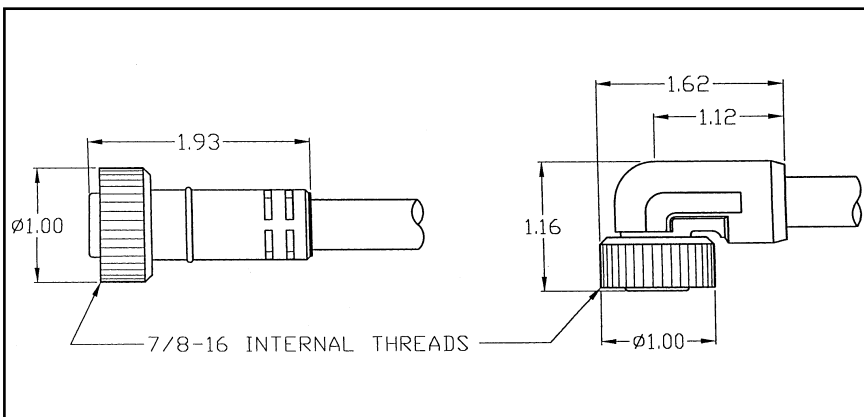
Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel



Coupling Nut:

Diecast Zamak 5 with black epoxy coat



## DIMENSIONS



# MINI-LINE AUTOMOTIVE FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	3'	5000109-3	5000109-11
					6'	5000109-4	5000109-12
					12'	5000109-5	5000109-13
					15'	5000109-42	5000109-4109
					20'	5000109-308	5000109-20
					25'	5000109-309	5000109-277
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	3'	5000111-3	5000111-11
					6'	5000111-4	5000111-12
					12'	5000111-5	5000111-13
					15'	5000111-4093	5000111-4049
					20'	5000111-19	5000111-20
					25'	5000111-4118	5000111-4117
					30'	5000111-4015	5000111-4111

# MINI-LINE AUTOMOTIVE MALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	3'	5000109-6	5000109-14
					6'	5000109-7	5000109-15
					12'	5000109-8	5000109-16
					15'	5000109-4204	5000109-4205
					20'	5000109-4039	5000109-4112
					25'	5000109-276	5000109-4113
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	3'	5000111-6	5000111-14
					6'	5000111-7	5000111-15
					12'	5000111-8	5000111-16
					15'	5000111-4194	5000111-4195
					20'	5000111-4112	5000111-4135
					25'	5000111-4067	5000111-4115
					30'	5000111-4014	5000111-4196

Note: Special lengths available upon request — consult factory.  
Nylon and stainless steel coupling nuts available — consult factory.

# SPECIFICATIONS MINI-LINE STYLE I STOOW PLUGS WITH WIRE MESH GRIPS (2-6 POLE)

- Male and Female Plugs
- 16 AWG (except 6 pole #18)
- 600V 105°C STOOW Cable
- Straight Version
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E 169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-40°C to +105°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Cable:

Yellow, STOOW per UL62

Contacts:

Machined Brass per ASTM B-16

Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

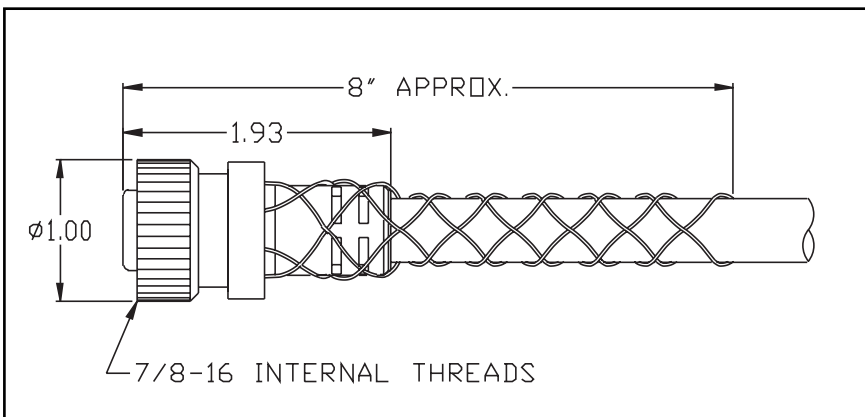
Coupling Nut:

Machined Aluminum with clear anodize finish

Wire Mesh:

Stainless Steel

## DIMENSIONS





# MINI-LINE STOOW FEMALE PLUG WITH WIRE MESH GRIP HARDWARE

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT
2		1. White 2. Black	600V, 13A	16	3'	5000108-3K
					6'	5000108-4K
					12'	5000108-5K
					15'	5000108-110K
					20'	5000108-61K
					25'	5000108-4035K
30'	5000108-63K					
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	3'	5000109-3K
					6'	5000109-4K
					12'	5000109-5K
					15'	5000109-42K
					20'	5000109-308K
					25'	5000109-309K
30'	5000109-310K					
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-3K
					6'	5000110-4K
					12'	5000110-5K
					15'	5000110-4027K
					20'	5000110-19K
					25'	5000110-624K
30'	5000110-310K					
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	3'	5000111-3K
					6'	5000111-4K
					12'	5000111-5K
					15'	5000111-4093K
					20'	5000111-19K
					25'	5000111-4118K
30'	5000111-4015K					
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-3K
					6'	5000120-4K
					12'	5000120-5K
					15'	5000120-4052K
					20'	5000120-308K
					25'	5000120-309K
30'	5000120-310K					

# MINI-LINE STOOW MALE PLUG WITH WIRE MESH GRIP HARDWARE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT
2		1. White 2. Black	600V, 13A	16	3'	5000108-6K
					6'	5000108-7K
					12'	5000108-8K
					15'	5000108-4040K
					20'	5000108-4041K
					25'	5000108-101K
30'	5000108-4042K					
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	3'	5000109-6K
					6'	5000109-7K
					12'	5000109-8K
					15'	5000109-4204K
					20'	5000109-4039K
					25'	5000109-276K
30'	5000109-4010K					
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	3'	5000110-6K
					6'	5000110-7K
					12'	5000110-8K
					15'	5000110-4012K
					20'	5000110-4024K
					25'	5000110-4090K
30'	5000110-162K					
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	3'	5000111-6K
					6'	5000111-7K
					12'	5000111-8K
					15'	5000111-4194K
					20'	5000111-4112K
					25'	5000111-4067K
30'	5000111-4014K					
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18*	3'	5000120-6K
					6'	5000120-7K
					12'	5000120-8K
					15'	5000120-4040K
					20'	5000120-4054K
					25'	5000120-4055K
30'	5000120-4029K					

\*6 pole plugs use 18 gauge conductors for Style I.

Note: Special lengths available upon request — consult factory.



# SPECIFICATIONS MINI-LINE STYLE I NEON FEMALE PLUG (3 POLE)

- Neon Female Plug
- 18 AWG Automotive Color Code
- 120V 105°C
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- 360° Visibility Range



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Clear UV stabilized PVC

Cable:

Yellow, AWM UL style 2661

Contacts:

Brass per ASTM B-16

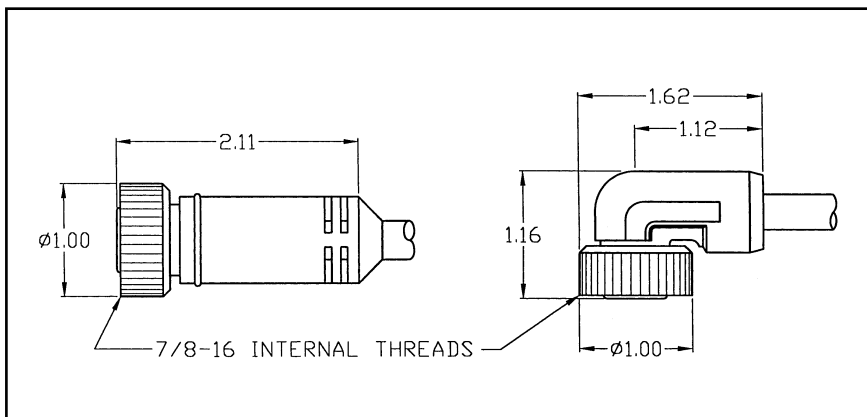
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel


Coupling Nut:

Diecast Zamak 5 with black epoxy coat

## DIMENSIONS

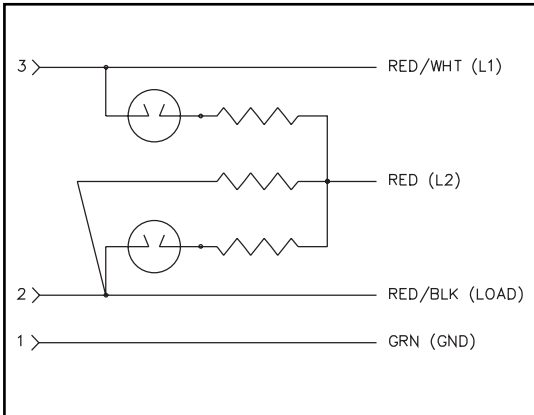


# MINI-LINE™ STYLE I NEON FEMALE PLUG

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AMPS	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White 4. Red-Power	120 VAC	6	6' 12' 20'	5000109-4L 5000109-5L 5000109-19L	5000109-12L 5000109-13L 5000109-20L

Note: Special lengths available upon request — consult factory.  
Nylon and stainless steel coupling nuts available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MINI-LINE STYLE I RECEPTACLES (2-6 POLE)

- Male and Female Receptacles
- Standard Color Code
- 16 AWG Pigtail Leads
- 600V 105°C
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E 169897  
File #LR13963

### Electrical Data

Contact Resistance:  
Current Rating:

$\leq 5m\Omega$   
See chart with part  
number detail

Voltage Rating:  
Dielectric Withstand Voltage:

600 VAC / 600 VDC  
2200 VAC

### Environmental Data

Protection:  
Temperature Range:  
High Pressure Water Test:

NEMA 1, 3, 4, 6P and 13; IEC IP 68  
-30°C to +105°C  
1200 PSI spray

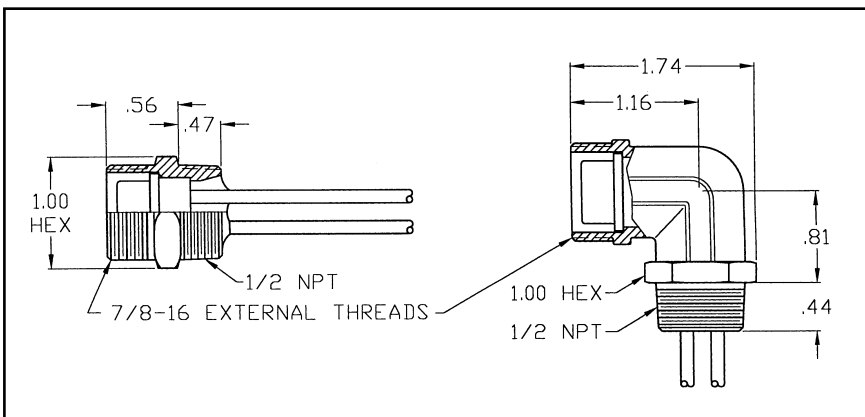
### Material Data

Insert:  
Pigtail leads:  
Contacts:  
Receptacle Shell:

Yellow, 90A durometer, flame resistant PVC  
Color Coded type MTW or AWM style 1015/1230  
Machined Brass per ASTM B-16  
Diecast Zamak 5 Zinc plated with clear sealer  
Nylon 6/6 weather stabilized  
303 Stainless Steel (except right angle design)  
Black rigid epoxy






Potting Compound:

## DIMENSIONS





## MINI-LINE FEMALE RECEPTACLE WITH ZINC DIECAST RECEPTACLE SHELL


POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	10"	5000108-9	5000108-17
3		1. Green 2. Black 3. White	600V, 13A	16	10"	5000109-9	5000109-17
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	10"	5000110-9	5000110-17
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	10"	5000111-9	5000111-17
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	10"	5000120-9	5000120-17

## MINI-LINE MALE RECEPTACLE WITH ZINC DIECAST RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	10"	5000108-10	5000108-18
3		1. Green 2. Black 3. White	600V, 13A	16	10"	5000109-10	5000109-18
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	10"	5000110-10	5000110-18
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	10"	5000111-10	5000111-18
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	10"	5000120-10	5000120-18

Note: Special lead lengths available upon request — consult factory.

## MINI-LINE FEMALE RECEPTACLE WITH *NYLON* RECEPTACLE SHELL






POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	10"	5000108-9N	5000108-17N
3		1. Green 2. White 3. Black	600V, 13A	16	10"	5000109-9N	5000109-17N
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	10"	5000110-9N	5000110-17N
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	10"	5000111-9N	5000111-17N
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	10"	5000120-9N	5000120-17N

## MINI-LINE MALE RECEPTACLE WITH *NYLON* RECEPTACLE SHELL






POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT	RIGHT ANGLE
2		1. White 2. Black	600V, 13A	16	10"	5000108-10N	5000108-18N
3		1. Green 2. Black 3. White	600V, 13A	16	10"	5000109-10N	5000109-18N
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	10"	5000110-10N	5000110-18N
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	10"	5000111-10N	5000111-18N
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	10"	5000120-10N	5000120-18N

Note: Special lead lengths available upon request — consult factory.

## MINI-LINE FEMALE RECEPTACLE WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT
2		1. White 2. Black	600V, 13A	16	10"	5000108-9X
3		1. Green 2. White 3. Black	600V, 13A	16	10"	5000109-9X
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	10"	5000110-9X
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	10"	5000111-9X
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	10"	5000120-9X

## MINI-LINE MALE RECEPTACLE WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT
2		1. White 2. Black	600V, 13A	16	10"	5000108-10X
3		1. Green 2. Black 3. White	600V, 13A	16	10"	5000109-10X
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	10"	5000110-10X
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	10"	5000111-10X
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	10"	5000120-10X

Note: Special lead lengths available upon request — consult factory.

# SPECIFICATIONS MINI-LINE STYLE I AUTOMOTIVE RECEPTACLES (3 AND 5 POLE)

- Male and Female Receptacles
- Automotive Color Code
- 16 AWG Pigtail Leads
- 600V 105°C
- Straight and Right Angle Versions
- Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E 169897  
File #LR 13963

### Electrical Data

Contact Resistance:  
Current Rating:

$\leq 5m\Omega$   
See chart with part  
number detail

Voltage Rating:  
Dielectric Withstand Voltage:

600 VAC / 600 VDC  
2200 VAC

### Environmental Data

Protection:  
Temperature Range:  
High Pressure Water Test:

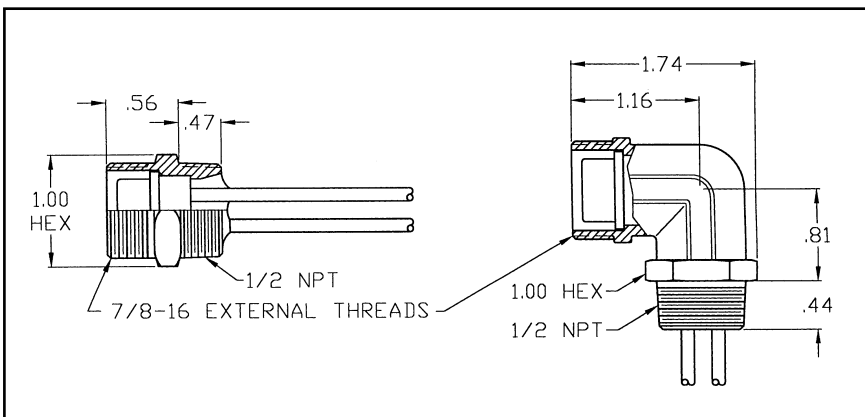
NEMA 1, 3, 4, 6P and 13; IEC IP 68  
-30°C to +105°C  
1200 PSI spray

### Material Data

Insert:  
Pigtail leads:  
Contacts:  
Receptacle Shell:  
Potting Compound:



Yellow, 90A durometer, flame resistant PVC  
Color Coded type MTW or AWM style 1015/1230  
Machined Brass per ASTM B-16  
Diecast Zamak 5 Zinc plated with clear sealer  
Black rigid epoxy

## DIMENSIONS







# MINI-LINE AUTOMOTIVE FEMALE RECEPTACLE WITH ZINC DIECAST RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	10"	5000109-34	5000109-485
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	10"	5000111-426	5000111-425

# MINI-LINE AUTOMOTIVE MALE RECEPTACLE WITH ZINC DIECAST RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	10"	5000109-33	5000109-800
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	10"	5000111-33	5000111-800

Note: Special lead lengths available upon request — consult factory.  
Nylon and stainless steel receptacle shell available except right angle stainless design — consult factory.

# SPECIFICATIONS MINI-LINE STYLE I PANEL MOUNT RECEPTACLES (2-6 POLE)

- Male and Female Panel Mount Receptacles
- Standard Color Code
- 16 AWG Pigtail Leads
- 600V 105°C
- Flange Mount and 1/2"-14 NPT Versions
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E 169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Insert:

Yellow, 90A durometer, flame resistant PVC

Pigtail leads:

Color Coded type MTW or AWM style 1015/1230

Contacts:

Machined Brass per ASTM B-16

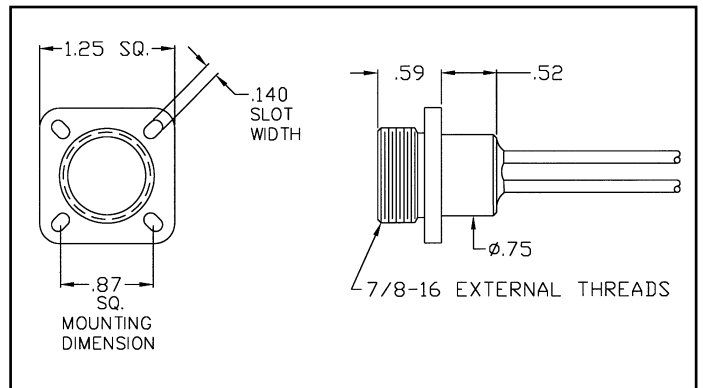
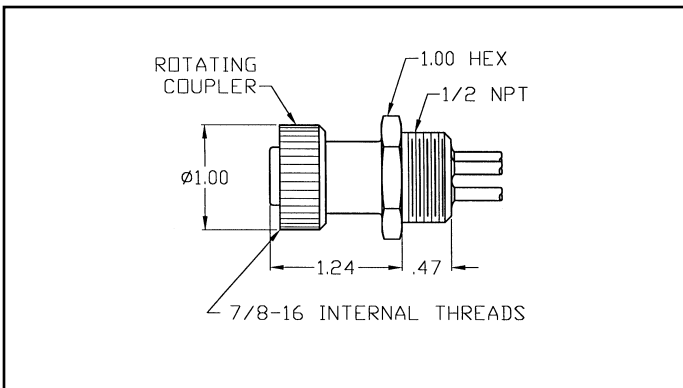
Receptacle Shell:

Machined Aluminum with anodize finish and clear sealant






Potting Compound:

Black rigid epoxy






## DIMENSIONS



# MINI-LINE FEMALE PANEL MOUNT RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	FLANGE MOUNT	1/2" - 14NPT
2		1. White 2. Black	600V, 13A	16	10"	5000108-28	5000108-30
3		1. Green 2. Black 3. White	600V, 13A	16	10"	5000109-28	5000109-30
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	10"	5000110-28	5000110-30
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	10"	5000111-28	5000111-30
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	10"	5000120-28	

# MINI-LINE MALE PANEL MOUNT RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	FLANGE MOUNT
2		1. White 2. Black	600V, 13A	16	10"	5000108-2
3		1. Green 2. Black 3. White	600V, 13A	16	10"	5000109-2
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	10"	5000110-2
5		1. White 2. Green 3. Orange 4. Red 5. Black	600V, 8A	16	10"	5000111-2
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	10"	5000120-2

Note: Special lead lengths available upon request — consult factory.

# SPECIFICATIONS MINI-LINE STYLE I FEMALE LIQUIDTIGHT PLUG (2-6 POLE)

- Female LiquidTight Plugs
- Standard Color Code
- 16 AWG Pigtail Leads
- Fits 1/2" Conduit
- 600V 105°C
- Straight Version
- Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E 169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with  
part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

### Material Data

Insert:

Yellow, 90A durometer, flame resistant PVC

Pigtail leads:

Color Coded type MTW or AWM style 1015/1230

Contacts:

Machined Brass per ASTM B-16

Fitting:

Zinc plated steel

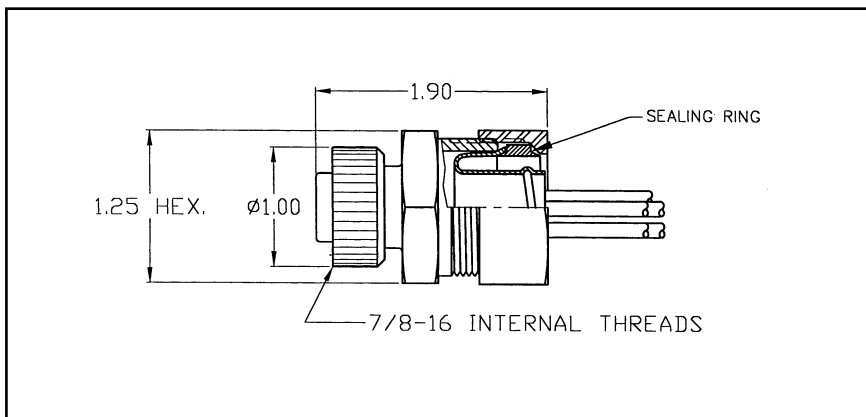
Coupling Nut:

Diecast Zamak 5 Zinc plated with clear sealer

Potting Compound:






Black rigid epoxy

## DIMENSIONS





# MINI-LINE FEMALE LIQUIDTIGHT PLUG WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	STRAIGHT
2		1. White 2. Black	600V, 13A	16	6'	5000108-165
3		1. Green 2. Black 3. White	600V, 13A	16	6'	5000109-165
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	6'	5000110-165
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	6'	5000111-165
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	16	6'	5000120-165

Note: Special lead lengths available upon request — consult factory.

# SPECIFICATIONS MINI-LINE STYLE I TAPPING TEE (2-5 POLE)

- Male-Female-Female Configuration
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Proof Ratchet Design



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with  
part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Body Material:

Santoprene™, black

Insert:

Santoprene, black

Contacts:

Brass per ASTM B16

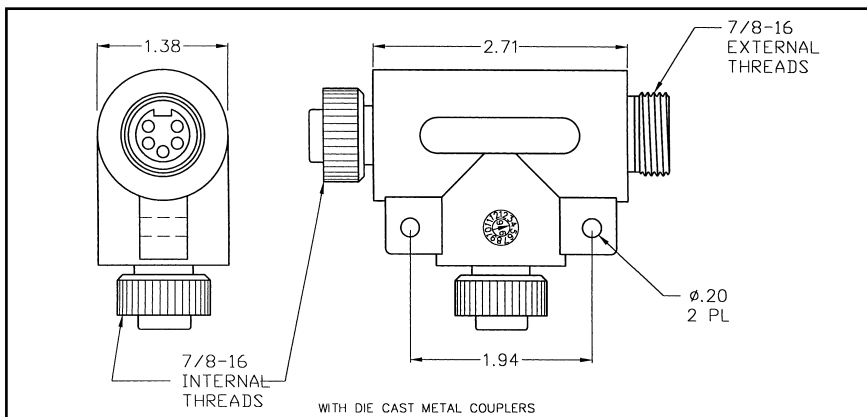
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Diecast Zamak 5 with black epoxy coat

## DIMENSIONS



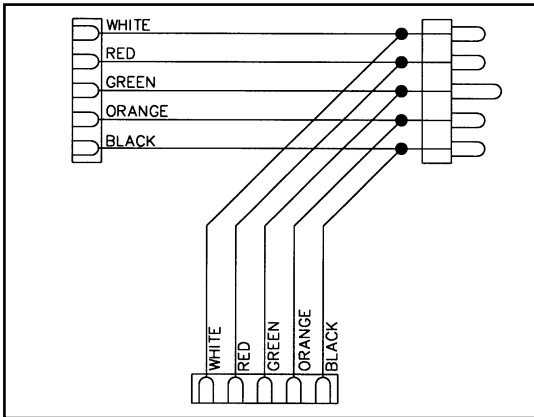
Santoprene is a tradename of  
Advanced Elastomer Systems.

# MINI-LINE STYLE I TAPPING TEE

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	PART NUMBER
2		1. White 2. Black	300V, 13A	16	5000108-362
3		1. Green 2. Black 3. White	300V, 13A	16	5000109-362
4		1. Black 2. White 3. Red 4. Green	300V, 10A	16	5000110-362
5		1. White 2. Red 3. Green 4. Orange 5. Black	300V, 8A	16	5000111-362

Note: Stainless steel coupling nut available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MINI-LINE RIGHT ANGLE ADAPTER (2-5 POLE)

- Right Angle Adapter
- Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E169897  
File #LR13963

### Electrical Data

Contact Resistance:  
Current Rating:

$\leq 5m\Omega$   
See chart with part  
number detail

Voltage Rating:  
Dielectric Withstand Voltage:

600 VAC / 600 VDC  
2200 VAC

### Environmental Data

Protection:  
Temperature Range:  
High Pressure Water Test:

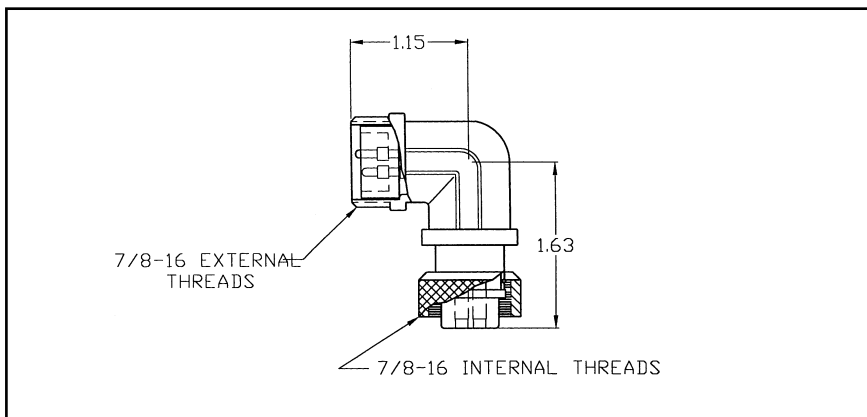
NEMA 1, 3, 4, 6P and 13; IEC IP 68  
-40°C to +105°C  
1200 PSI spray

### Material Data





Insert:  
Contacts:  
Coupling Nut:  
Receptacle Shell:  
Potting Compound:

Yellow, 90A durometer, flame resistant PVC  
Machined Brass per ASTM B-16  
Machined Aluminum with clear anodize finish  
Diecast Zamak 5 Zinc plated with clear sealer  
Black rigid epoxy

## DIMENSIONS



# MINI-LINE RIGHT ANGLE ADAPTER WITH ZINC DIECAST RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	PART NUMBER
2		1. White 2. Black	600V, 13A	16	5000108-436
3		1. Green 2. Black 3. White	600V, 13A	16	5000109-436
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	5000110-436
5		1. White 2. Red 3. Green 4. Orange 5. Black	600V, 8A	16	5000111-436



# SPECIFICATIONS MINI-LINE STYLE II STOOW PLUGS (6-8 POLE)

- Male and Female Plugs
- 16 AWG Standard Color Code
- 600V 105°C STOOW Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E 169897  
File #LR13963

### Electrical Data

Contact Resistance:  
Current Rating:

$\leq 5m\Omega$   
See chart with part  
number detail

Voltage Rating:  
Dielectric Withstand Voltage:

600 VAC / 600 VDC  
2200 VAC

### Environmental Data

Protection:  
Temperature Range:

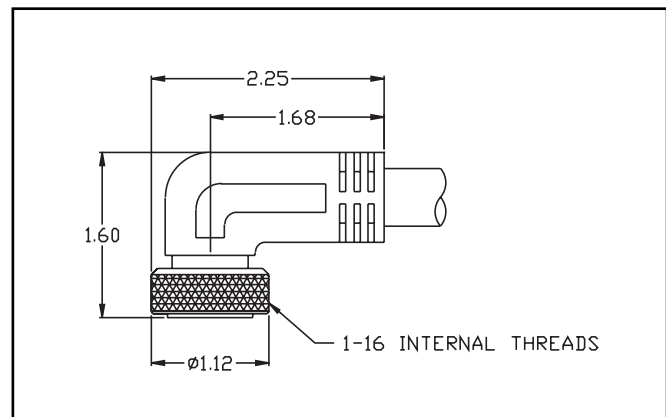
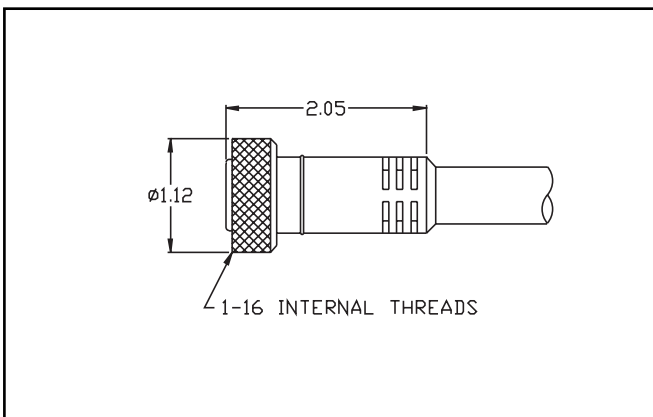
NEMA 1, 3, 4, 6P and 13; IEC IP 68  
-40°C to +105°C

### Material Data




Body:  
Cable:  
Contacts:  
Female Contact Plating:  
Coupling Nut:

Yellow, 82A durometer, flame resistant PVC  
Yellow, STOOW per UL62  
Machined Brass per ASTM B-16  
30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
Machined Aluminum with anodize finish and clear sealant  
Nylon 6/6 weather stabilized  
303 Stainless Steel




## DIMENSIONS



## MINI-LINE STOOW FEMALE PLUG WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
6		1. Orange	600V, 8A	16	3'	X8987-3	X8987-145
		2. Blue			6'	X8987-4	X8987-146
		3. Black			12'	X8987-5	X8987-147
		4. White			15'	X8987-4036	X8987-148
		5. Red			20'	X8987-4005	X8987-149
		6. Green			25'	X8987-4037	X8987-150
7		1. White-Black	600V, 7A	16	3'	X8988-3	X8988-145
		2. Black			6'	X8988-4	X8988-146
		3. White			12'	X8988-5	X8988-147
		4. Red			15'	X8988-4040	X8988-148
		5. Orange			20'	X8988-69	X8988-149
		6. Blue			25'	X8988-70	X8988-150
		7. Green			30'	X8988-71	X8988-151
8		1. Orange	600V, 7A	16	3'	X8989-3	X8989-166
		2. Blue			6'	X8989-4	X8989-167
		3. White-Black			12'	X8989-5	X8989-168
		4. Black			15'	X8989-4069	X8989-169
		5. White			20'	X8989-69	X8989-170
		6. Red			25'	X8989-70	X8989-171
		7. Green			30'	X8989-71	X8989-172
		8. Red-Black					

## MINI-LINE STOOW MALE PLUG WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
6		1. Orange	600V, 8A	16	3'	X8987-6	X8987-152
		2. Blue			6'	X8987-7	X8987-153
		3. Black			12'	X8987-8	X8987-154
		4. White			15'	X8987-4039	X8987-155
		5. Red			20'	X8987-56	X8987-156
		6. Green			25'	X8987-58	X8987-157
7		1. White-Black	600V, 7A	16	3'	X8988-6	X8988-152
		2. Black			6'	X8988-7	X8988-153
		3. White			12'	X8988-8	X8988-154
		4. Red			15'	X8988-4041	X8988-155
		5. Orange			20'	X8988-4003	X8988-156
		6. Blue			25'	X8988-20	X8988-157
		7. Green			30'	X8988-4042	X8988-158
8		1. Orange	600V, 7A	16	3'	X8989-6	X8989-173
		2. Blue			6'	X8989-7	X8989-174
		3. White-Black			12'	X8989-8	X8989-175
		4. Black			15'	X8989-4070	X8989-176
		5. White			20'	X8989-56	X8989-177
		6. Red			25'	X8989-15	X8989-178
		7. Green			30'	X8989-57	X8989-179
		8. Red-Black					

Note: Special lengths available upon request — consult factory.

## MINI-LINE STOOV FEMALE PLUG WITH NYLON COUPLING NUT




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
6		1. Orange	600V, 8A	16	3'	X8987-3N	X8987-145N
		2. Blue			6'	X8987-4N	X8987-146N
		3. Black			12'	X8987-5N	X8987-147N
		4. White			15'	X8987-4036N	X8987-148N
		5. Red			20'	X8987-4005N	X8987-149N
		6. Green			25'	X8987-4037N	X8987-150N
7		1. White-Black	600V, 7A	16	3'	X8988-3N	X8988-145N
		2. Black			6'	X8988-4N	X8988-146N
		3. White			12'	X8988-5N	X8988-147N
		4. Red			15'	X8988-4040N	X8988-148N
		5. Orange			20'	X8988-69N	X8988-149N
		6. Blue			25'	X8988-70N	X8988-150N
8		1. Orange	600V, 7A	16	3'	X8989-3N	X8989-166N
		2. Blue			6'	X8989-4N	X8989-167N
		3. White-Black			12'	X8989-5N	X8989-168N
		4. Black			15'	X8989-4069N	X8989-169N
		5. White			20'	X8989-69N	X8989-170N
		6. Red			25'	X8989-70N	X8989-171N
		7. Green	30'	X8989-71N	X8989-172N		
		8. Red-Black					

## MINI-LINE STOOV MALE PLUG WITH NYLON COUPLING NUT




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
6		1. Orange	600V, 8A	16	3'	X8987-6N	X8987-152N
		2. Blue			6'	X8987-7N	X8987-153N
		3. Black			12'	X8987-8N	X8987-154N
		4. White			15'	X8987-4039N	X8987-155N
		5. Red			20'	X8987-56N	X8987-156N
		6. Green			25'	X8987-58N	X8987-157N
7		1. White-Black	600V, 7A	16	3'	X8988-6N	X8988-152N
		2. Black			6'	X8988-7N	X8988-153N
		3. White			12'	X8988-8N	X8988-154N
		4. Red			15'	X8988-4041N	X8988-155N
		5. Orange			20'	X8988-4003N	X8988-156N
		6. Blue			25'	X8988-20N	X8988-157N
8		1. Orange	600V, 7A	16	3'	X8989-6N	X8989-173N
		2. Blue			6'	X8989-7N	X8989-174N
		3. White-Black			12'	X8989-8N	X8989-175N
		4. Black			15'	X8989-4070N	X8989-176N
		5. White			20'	X8989-56N	X8989-177N
		6. Red			25'	X8989-15N	X8989-178N
		7. Green	30'	X8989-57N	X8989-179N		
		8. Red-Black					

Note: Special lengths available upon request — consult factory.

## MINI-LINE STOOW FEMALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
6		1. Orange	600V, 8A	16	3'	X8987-3X	X8987-145X
		2. Blue			6'	X8987-4X	X8987-146X
		3. Black			12'	X8987-5X	X8987-147X
		4. White			15'	X8987-4036X	X8987-148X
		5. Red			20'	X8987-4005X	X8987-149X
		6. Green			25'	X8987-4037X	X8987-150X
7		1. White-Black	600V, 7A	16	30'	X8987-4038X	X8987-151X
		2. Black			3'	X8988-3X	X8988-145X
		3. White			6'	X8988-4X	X8988-146X
		4. Red			12'	X8988-5X	X8988-147X
		5. Orange			15'	X8988-4040X	X8988-148X
		6. Blue			20'	X8988-69X	X8988-149X
		7. Green			25'	X8988-70X	X8988-150X
8		30'	X8988-71X	X8988-151X			
		1. Orange	600V, 7A	16	3'	X8989-3X	X8989-166X
		2. Blue			6'	X8989-4X	X8989-167X
		3. White-Black			12'	X8989-5X	X8989-168X
		4. Black			15'	X8989-4069X	X8989-169X
		5. White			20'	X8989-69X	X8989-170X
		6. Red			25'	X8989-70X	X8989-171X
		7. Green			30'	X8989-71X	X8989-172X
8. Red-Black							

## MINI-LINE STOOW MALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
6		1. Orange	600V, 8A	16	3'	X8987-6X	X8987-152X
		2. Blue			6'	X8987-7X	X8987-153X
		3. Black			12'	X8987-8X	X8987-154X
		4. White			15'	X8987-4039X	X8987-155X
		5. Red			20'	X8987-56X	X8987-156X
		6. Green			25'	X8987-58X	X8987-157X
7		30'	X8987-89X	X8987-158X			
		1. White-Black	600V, 7A	16	3'	X8988-6X	X8988-152X
		2. Black			6'	X8988-7X	X8988-153X
		3. White			12'	X8988-8X	X8988-154X
		4. Red			15'	X8988-4041X	X8988-155X
		5. Orange			20'	X8988-4003X	X8988-156X
		6. Blue			25'	X8988-20X	X8988-157X
7. Green	30'	X8988-4042X			X8988-158X		
8		30'	X8988-4042X	X8988-158X			
		1. Orange	600V, 7A	16	3'	X8989-6X	X8989-173X
		2. Blue			6'	X8989-7X	X8989-174X
		3. White-Black			12'	X8989-8X	X8989-175X
		4. Black			15'	X8989-4070X	X8989-176X
		5. White			20'	X8989-56X	X8989-177X
		6. Red			25'	X8989-15X	X8989-178X
		7. Green			30'	X8989-57X	X8989-179X
8. Red-Black							

Note: Special lengths available upon request — consult factory.

# SPECIFICATIONS MINI-LINE STYLE II STOOW MALE TO FEMALE EXTENSIONS (6-8 POLE)

- 16 AWG Standard Color Code
- 600V 105°C STOOW Cable
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

CSA Certification:

File #E169897

File #LR13963

### Electrical Data

Contact Resistance:

Current Rating:

Voltage Rating:

Dielectric Withstand Voltage:

≤ 5mΩ

See chart with part number detail

600 VAC / 600 VDC

2200 VAC

### Environmental Data

Protection:

Temperature Range:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

-40°C to +105°C

### Material Data

Body:

Cable:

Contacts:

Female Contact Plating:

Coupling Nut:

Yellow, 82A durometer, flame resistant PVC

Yellow, STOOW per UL62

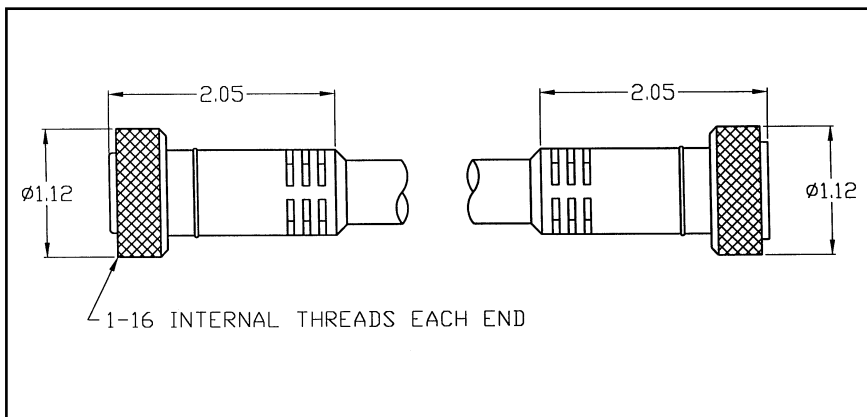
Machined Brass per ASTM B-16

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Machined Aluminum with anodize finish and clear sealant

Nylon 6/6 weather stabilized




## DIMENSIONS








# MINI-LINE STOOW MALE TO FEMALE EXTENSIONS

WITH **MACHINED ALUMINUM** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	3'	X8987-33
					6'	X8987-34
					12'	X8987-35
					15'	X8987-4040
					20'	X8987-4006
					25'	X8987-4041
30'	X8987-4042					
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	3'	X8988-33
					6'	X8988-34
					12'	X8988-35
					15'	X8988-4043
					20'	X8988-73
					25'	X8988-74
					30'	X8988-75
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	3'	X8989-33
					6'	X8989-34
					12'	X8989-35
					15'	X8989-4071
					20'	X8989-73
					25'	X8989-74
					30'	X8989-75

# MINI-LINE STOOW MALE TO FEMALE EXTENSIONS WITH **NYLON** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	3'	X8987-33N
					6'	X8987-34N
					12'	X8987-35N
					15'	X8987-4040N
					20'	X8987-4006N
					25'	X8987-4041N
30'	X8987-4042N					
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	3'	X8988-33N
					6'	X8988-34N
					12'	X8988-35N
					15'	X8988-4043N
					20'	X8988-73N
					25'	X8988-74N
					30'	X8988-75N
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	3'	X8989-33N
					6'	X8989-34N
					12'	X8989-35N
					15'	X8989-4071N
					20'	X8989-73N
					25'	X8989-74N
					30'	X8989-75N

Note: Special lengths available upon request — consult factory.

Stainless steel coupling nut available — consult factory.

Right angle male and female plugs available — consult factory.

# SPECIFICATIONS MINI-LINE STYLE II SOOW PLUGS (6-8 POLE)

- Male and Female Plugs
- 16 AWG Standard Color Code
- 600V 105°C SOOW Cable
- Straight and Right Angle Versions
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-50°C to +105°C

### Material Data

Body:

Yellow, 82A durometer, flame resistant PVC

Cable:

Yellow, SOOW

Contacts:

Machined Brass per ASTM B-16

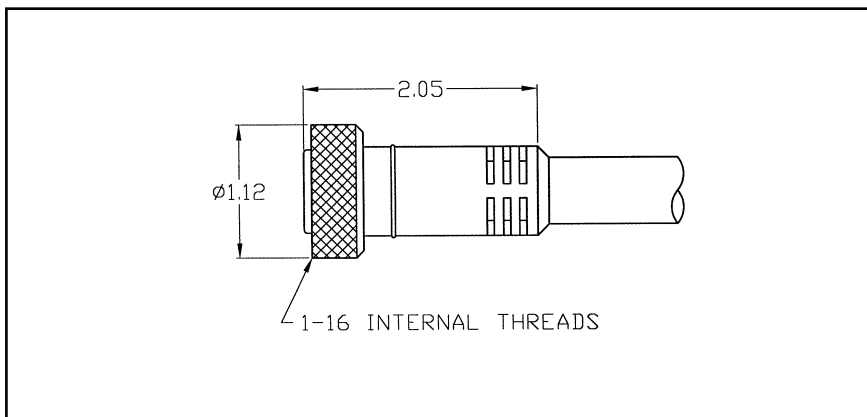
Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel




Coupling Nut:

Machined Aluminum with anodize finish and clear sealant




## DIMENSIONS



## MINI-LINE SOOW FEMALE PLUG WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
6		1. Orange	600V, 8A	16	3'	X8987-3S	X8987-145S
		2. Blue			6'	X8987-4S	X8987-146S
		3. Black			12'	X8987-5S	X8987-147S
		4. White			15'	X8987-4036S	X8987-148S
		5. Red			20'	X8987-4005S	X8987-149S
		6. Green			25'	X8987-4037S	X8987-150S
7		1. White-Black	600V, 7A	16	3'	X8988-3S	X8988-145S
		2. Black			6'	X8988-4S	X8988-146S
		3. White			12'	X8988-5S	X8988-147S
		4. Red			15'	X8988-4040S	X8988-148S
		5. Orange			20'	X8988-69S	X8988-149S
		6. Blue			25'	X8988-70S	X8988-150S
		7. Green			30'	X8988-71S	X8988-151S
8		1. Orange	600V, 7A	16	3'	X8989-3S	X8989-166S
		2. Blue			6'	X8989-4S	X8989-167S
		3. White-Black			12'	X8989-5S	X8989-168S
		4. Black			15'	X8989-4069S	X8989-169S
		5. White			20'	X8989-69S	X8989-170S
		6. Red			25'	X8989-70S	X8989-171S
		7. Green			30'	X8989-71S	X8989-172S
		8. Red-Black					

## MINI-LINE SOOW MALE PLUG WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
6		1. Orange	600V, 8A	16	3'	X8987-6S	X8987-152S
		2. Blue			6'	X8987-7S	X8987-153S
		3. Black			12'	X8987-8S	X8987-154S
		4. White			15'	X8987-4039S	X8987-155S
		5. Red			20'	X8987-56S	X8987-156S
		6. Green			25'	X8987-58S	X8987-157S
7		1. White-Black	600V, 7A	16	3'	X8988-6S	X8988-152S
		2. Black			6'	X8988-7S	X8988-153S
		3. White			12'	X8988-8S	X8988-154S
		4. Red			15'	X8988-4041S	X8988-155S
		5. Orange			20'	X8988-4003S	X8988-156S
		6. Blue			25'	X8988-20S	X8988-157S
		7. Green			30'	X8988-4042S	X8988-158S
8		1. Orange	600V, 7A	16	3'	X8989-6S	X8989-173S
		2. Blue			6'	X8989-7S	X8989-174S
		3. White-Black			12'	X8989-8S	X8989-175S
		4. Black			15'	X8989-4070S	X8989-156S
		5. White			20'	X8989-56S	X8989-177S
		6. Red			25'	X8989-15S	X8989-178S
		7. Green			30'	X8989-57S	X8989-179S
		8. Red-Black					

Note: Special lengths available upon request — consult factory.

Nylon and stainless steel coupling nuts available — consult factory.

# SPECIFICATIONS MINI-LINE STYLE II SOOW MALE TO FEMALE EXTENSIONS (6-8 POLE)

- 16 AWG Standard Color Code
- 600V 105°C SOOW Cable
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E 169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-50°C to +105°C

### Material Data

Body:

Yellow, 82A durometer, flame resistant PVC

Cable:

Yellow, SOOW

Contacts:

Machined Brass per ASTM B-16

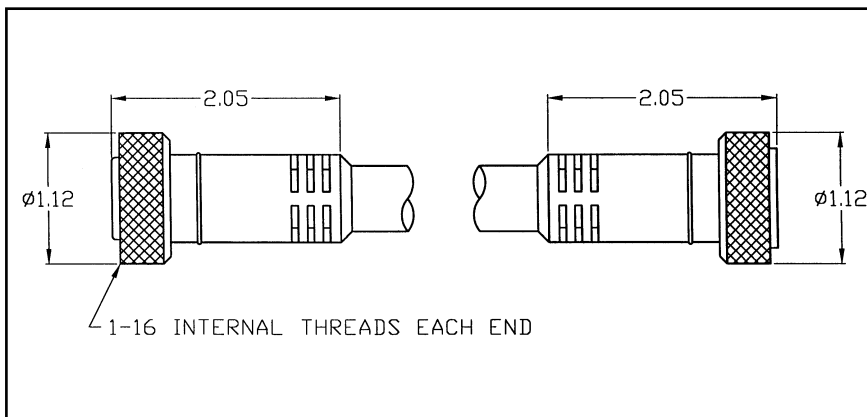
Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:




Machined Aluminum with anodize finish and clear sealant

## DIMENSIONS



# MINI-LINE SOOW MALE TO FEMALE EXTENSIONS

WITH **MACHINED ALUMINUM** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	3'	X8987-33S
					6'	X8987-34S
					12'	X8987-35S
					15'	X8987-4040S
					20'	X8987-4006S
					25'	X8987-4041S
30'	X8987-4042S					
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	3'	X8988-33S
					6'	X8988-34S
					12'	X8988-35S
					15'	X8988-4043S
					20'	X8988-73S
					25'	X8988-74S
					30'	X8988-75S
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	3'	X8989-33S
					6'	X8989-34S
					12'	X8989-35S
					15'	X8989-4071S
					20'	X8989-73S
					25'	X8989-74S
					30'	X8989-75S

Note: Special lengths available upon request — consult factory.

Nylon and stainless steel coupling nuts available — consult factory.

Right angle male and female plugs available — consult factory.



# SPECIFICATIONS MINI-LINE STYLE II RECEPTACLES (6-8 POLE)

- Male and Female Receptacles
- Standard Color Code
- 16 AWG Pigtail Leads
- 600V 105°C
- Standard and Flange Mount Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

### Material Data

Insert:

Yellow, 82A durometer, flame resistant PVC

Pigtail Leads:

Color coded type MTW or AWM style 1015/1230

Contacts:

Machined Brass per ASTM B-16

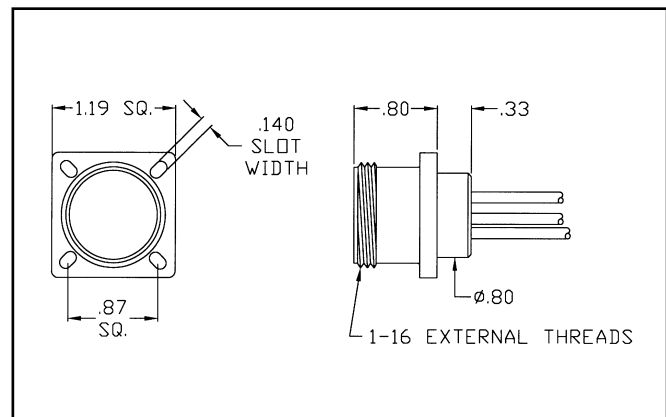
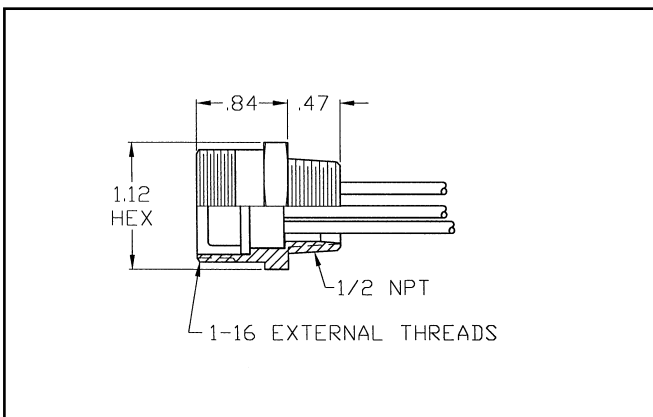
Receptacle Shell:

Machined Aluminum with anodize finish and clear sealant  
303 Stainless Steel




Potting Compound:

Black rigid epoxy




## DIMENSIONS



## MINI-LINE FEMALE RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" - 14NPT
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	10"	X8987-1
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	10"	X8988-1
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	10"	X8989-1

## MINI-LINE MALE RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" - 14NPT
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	10"	X8987-2
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	10"	X8988-2
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	10"	X8989-2

Note: Special lead lengths available upon request — consult factory.

## MINI-LINE FEMALE RECEPTACLE WITH STAINLESS STEEL RECEPTACLE SHELL




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" - 14NPT
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	10"	X8987-1X
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	10"	X8988-1X
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	10"	X8989-1X

## MINI-LINE MALE RECEPTACLE WITH STAINLESS STEEL RECEPTACLE SHELL




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" - 14NPT
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	10"	X8987-2X
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	10"	X8988-2X
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	10"	X8989-2X

Note: Special lead lengths available upon request — consult factory.

## MINI-LINE FLANGE MOUNT FEMALE RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	FLANGE MOUNT
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	10"	X8987-39
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	10"	X8988-39
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	10"	X8989-39

## MINI-LINE FLANGE MOUNT MALE RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	FLANGE MOUNT
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 8A	16	10"	X8987-22
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	10"	X8988-22
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	10"	X8989-22

Note: Special lead lengths available upon request — consult factory.

# SPECIFICATIONS MINI-LINE STYLE III STOOW PLUGS (9, 10 AND 12 POLE)

- Male and Female Plugs
- 16 AWG Standard Color Code
- 600V 105°C STOOW Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E 169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-40°C to +105°C

### Material Data

Body:

Yellow, 82A durometer, flame resistant PVC

Cable:

Yellow, STOOW per UL62

Contacts:

Machined Brass per ASTM B-16

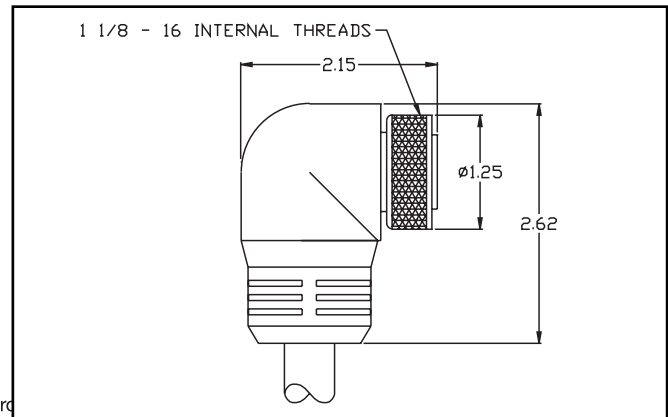
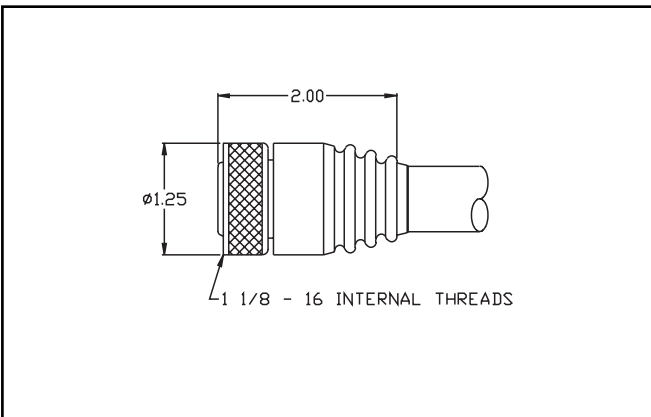
Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Machined Aluminum with anodize finish and clear sealant  
303 Stainless Steel

## DIMENSIONS





## MINI-LINE STOOW FEMALE PLUG WITH MACHINED ALUMINUM COUPLING NUT




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
9		1. Orange	600V, 7A	16	3'	X8990-3	X8990-80
		2. Blue			6'	X8990-4	X8990-81
		3. Red-Black			12'	X8990-5	X8990-82
		4. Green-Black			15'	X8990-4027	X8990-83
		5. White			20'	X8990-69	X8990-84
		6. Red			25'	X8990-70	X8990-85
		7. Green			30'	X8990-71	X8990-86
		8. White-Black					
		9. Black					
10		1. Orange	600V, 7A	16	3'	X8991-3	X8991-145
		2. Blue			6'	X8991-4	X8991-146
		3. White-Black			12'	X8991-5	X8991-147
		4. Red-Black			15'	X8991-4004	X8991-148
		5. Green-Black			20'	X8991-69	X8991-149
		6. Orange-Black			25'	X8991-70	X8991-150
		7. Red			30'	X8991-71	X8991-151
		8. Green					
		9. Black					
		10. White					
12		1. Orange	600V, 7A	16	3'	X8992-3	X8992-110
		2. Blue			6'	X8992-4	X8992-111
		3. White-Black			12'	X8992-5	X8992-112
		4. Red-Black			15'	X8992-4036	X8992-113
		5. Green-Black			20'	X8992-69	X8992-114
		6. Orange-Black			25'	X8992-70	X8992-115
		7. Blue-Black			30'	X8992-71	X8992-116
		8. Black-White					
		9. Green					
		10. Red					
		11. White					
		12. Black					

## MINI-LINE STOOW MALE PLUG WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
9		1. Orange	600V, 7A	16	3'	X8990-6	X8990-87
		2. Blue			6'	X8990-7	X8990-88
		3. Red-Black			12'	X8990-8	X8990-89
		4. Green-Black			15'	X8990-4028	X8990-90
		5. White			20'	X8990-4029	X8990-91
		6. Red			25'	X8990-4030	X8990-92
		7. Green			30'	X8990-4017	X8990-93
		8. White-Black					
		9. Black					
10		1. Orange	600V, 7A	16	3'	X8991-6	X8991-152
		2. Blue			6'	X8991-7	X8991-153
		3. White-Black			12'	X8991-8	X8991-154
		4. Red-Black			15'	X8991-4067	X8991-155
		5. Green-Black			20'	X8991-4068	X8991-156
		6. Orange-Black			25'	X8991-4069	X8991-157
		7. Red			30'	X8991-4039	X8991-158
8. Green							
9. Black							
10. White							
12		1. Orange	600V, 7A	16	3'	X8992-6	X8992-117
		2. Blue			6'	X8992-7	X8992-118
		3. White-Black			12'	X8992-8	X8992-119
		4. Red-Black			15'	X8992-615	X8992-120
		5. Green-Black			20'	X8992-4014	X8992-121
		6. Orange-Black			25'	X8992-4043	X8992-122
		7. Blue-Black			30'	X8992-4031	X8992-123
		8. Black-White					
		9. Green					
		10. Red					
		11. White					
		12. Black					




Note: Special lengths available upon request — consult factory.

# MINI-LINE STOOV FEMALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
9		1. Orange	600V, 7A	16	3'	X8990-3X	X8990-80X
		2. Blue			6'	X8990-4X	X8990-81X
		3. Red-Black			12'	X8990-5X	X8990-82X
		4. Green-Black			15'	X8990-4027X	X8990-83X
		5. White			20'	X8990-69X	X8990-84X
		6. Red			25'	X8990-70X	X8990-85X
		7. Green			30'	X8990-71X	X8990-86X
		8. White-Black					
		9. Black					
10		1. Orange	600V, 7A	16	3'	X8991-3X	X8991-145X
		2. Blue			6'	X8991-4X	X8991-146X
		3. White-Black			12'	X8991-5X	X8991-147X
		4. Red-Black			15'	X8991-4004X	X8991-148X
		5. Green-Black			20'	X8991-69X	X8991-149X
		6. Orange-Black			25'	X8991-70X	X8991-150X
		7. Red			30'	X8991-71X	X8991-151X
		8. Green					
		9. Black					
		10. White					
12		1. Orange	600V, 7A	16	3'	X8992-3X	X8992-110X
		2. Blue			6'	X8992-4X	X8992-111X
		3. White-Black			12'	X8992-5X	X8992-112X
		4. Red-Black			15'	X8992-4036X	X8992-113X
		5. Green-Black			20'	X8992-69X	X8992-114X
		6. Orange-Black			25'	X8992-70X	X8992-115X
		7. Blue-Black			30'	X8992-71X	X8992-116X
		8. Black-White					
		9. Green					
		10. Red					
		11. White					
		12. Black					

Note: Special lengths available upon request — consult factory.

# MINI-LINE STOOW MALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
9		1. Orange	600V, 7A	16	3'	X8990-6X	X8990-87X
		2. Blue			6'	X8990-7X	X8990-88X
		3. Red-Black			12'	X8990-8X	X8990-89X
		4. Green-Black			15'	X8990-4028X	X8990-90X
		5. White			20'	X8990-4029X	X8990-91X
		6. Red			25'	X8990-4030X	X8990-92X
		7. Green			30'	X8990-4017X	X8990-93X
		8. White-Black					
		9. Black					
10		1. Orange	600V, 7A	16	3'	X8991-6X	X8991-152X
		2. Blue			6'	X8991-7X	X8991-153X
		3. White-Black			12'	X8991-8X	X8991-154X
		4. Red-Black			15'	X8991-4067X	X8991-155X
		5. Green-Black			20'	X8991-4068X	X8991-156X
		6. Orange-Black			25'	X8991-4069X	X8991-157X
		7. Red			30'	X8991-4039X	X8991-158X
		8. Green					
		9. Black					
		10. White					
12		1. Orange	600V, 7A	16	3'	X8992-6X	X8992-117X
		2. Blue			6'	X8992-7X	X8992-118X
		3. White-Black			12'	X8992-8X	X8992-119X
		4. Red-Black			15'	X8992-615X	X8992-120X
		5. Green-Black			20'	X8992-4014X	X8992-121X
		6. Orange-Black			25'	X8992-4043X	X8992-122X
		7. Blue-Black			30'	X8992-4031X	X8992-123X
		8. Black-White					
		9. Green					
		10. Red					
		11. White					
		12. Black					

Note: Special lengths available upon request — consult factory.

# **SPECIFICATIONS MINI-LINE STYLE III STOOW MALE TO FEMALE EXTENSIONS (9, 10 AND 12 POLE)**

- 16 AWG Standard Color Code
- 600V 105°C STOOW
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## **TECHNICAL DATA**

### **Agency Approvals**

UL Recognition:  
CSA Certification:

File #E 169897  
File #LR13963

### **Electrical Data**

Contact Resistance:  
Current Rating:

$\leq 5m\Omega$   
See chart with part  
number detail

Voltage Rating:  
Dielectric Withstand Voltage:

600 VAC / 600 VDC  
2200 VAC

### **Environmental Data**

Protection:  
Temperature Range:

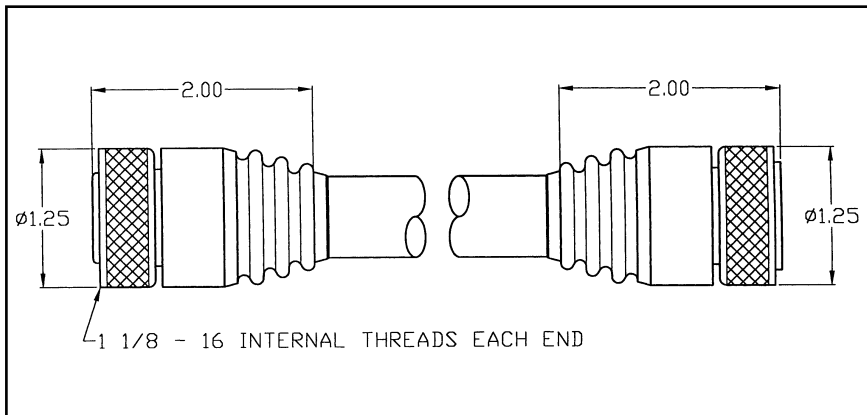
NEMA 1, 3, 4, 6P and 13; IEC IP 68  
-40°C to +105°C

### **Material Data**




Body:  
Cable:  
Contacts:  
Female Contact Plating:  
Coupling Nut:

Yellow, 82A durometer, flame resistant PVC  
Yellow, STOOW per UL62  
Machined Brass per ASTM B-16  
30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
Machined Aluminum with anodize finish and clear sealant

## **DIMENSIONS**



# MINI-LINE STOOW MALE TO FEMALE EXTENSIONS WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
9		1. Orange	600V, 7A	16	3'	X8990-33
		2. Blue			6'	X8990-34
		3. Red-Black			12'	X8990-35
		4. Green-Black			15'	X8990-4031
		5. White			20'	X8990-73
		6. Red			25'	X8990-74
		7. Green			30'	X8990-75
		8. White-Black				
		9. Black				
10		1. Orange	600V, 7A	16	3'	X8991-33
		2. Blue			6'	X8991-34
		3. White-Black			12'	X8991-35
		4. Red-Black			15'	X8991-4056
		5. Green-Black			20'	X8991-73
		6. Orange-Black			25'	X8991-74
		7. Red			30'	X8991-75
		8. Green				
		9. Black				
		10. White				
12		1. Orange	600V, 7A	16	3'	X8992-33
		2. Blue			6'	X8992-34
		3. White-Black			12'	X8992-35
		4. Red-Black			15'	X8992-4035
		5. Green-Black			20'	X8992-73
		6. Orange-Black			25'	X8992-74
		7. Blue-Black			30'	X8992-75
		8. Black-White				
		9. Green				
		10. Red				
		11. White				
		12. Black				

Note: Special lengths available upon request — consult factory.  
 Right angle male and female plugs available — consult factory.  
 Stainless steel coupling nut available — consult factory.



# SPECIFICATIONS MINI-LINE STYLE III SOOW PLUG (9, 10 AND 12 POLE)

- Male and Female Plugs
- 16 AWG Standard Color Code
- 600V 105°C SOOW Cable
- Straight and Right Angle Versions
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E169897  
File #LR13963

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
Current Rating: See chart with part number detail  
Voltage Rating: 600 VAC / 600 VDC  
Dielectric Withstand Voltage: 2200 VAC

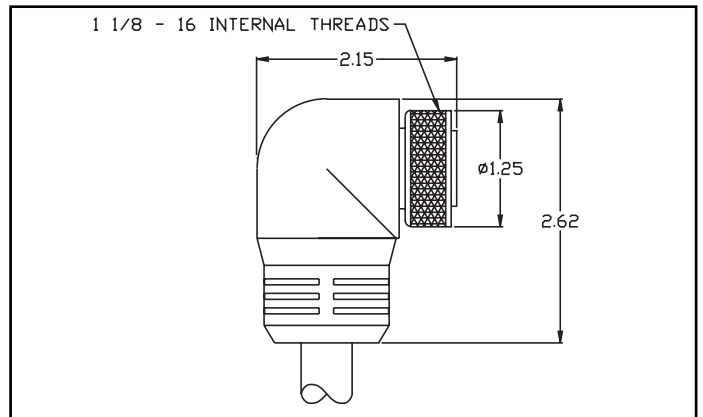
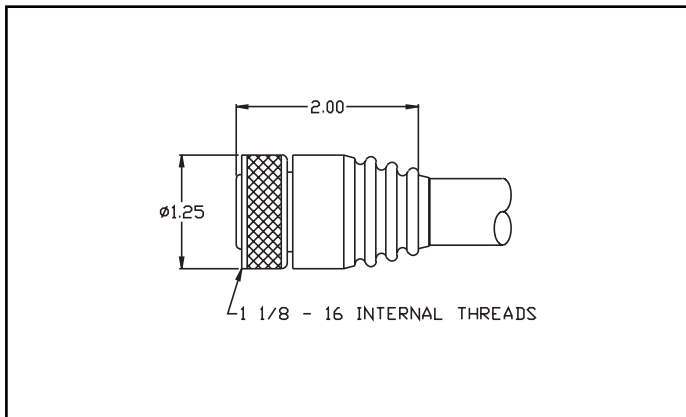
### Environmental Data

Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
Temperature Range: -50°C to +105°C

### Material Data

Body: Yellow, 82A durometer, flame resistant PVC  
Cable: Yellow, SOOW  
Contacts: Machined Brass per ASTM B-16  
Female Contact Plating: 30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
Coupling Nut: Machined Aluminum with anodize finish and clear sealant

## DIMENSIONS



# MINI-LINE SOOW FEMALE PLUG WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
9		1. Orange	600V, 7A	16	3'	X8990-3S	X8990-80S
		2. Blue			6'	X8990-4S	X8990-81S
		3. Red-Black			12'	X8990-5S	X8990-82S
		4. Green-Black			15'	X8990-4027S	X8990-83S
		5. White			20'	X8990-69S	X8990-84S
		6. Red			25'	X8990-70S	X8990-85S
		7. Green			30'	X8990-71S	X8990-86S
		8. White-Black					
		9. Black					
10		1. Orange	600V, 7A	16	3'	X8991-3S	X8991-145S
		2. Blue			6'	X8991-4S	X8991-146S
		3. White-Black			12'	X8991-5S	X8991-147S
		4. Red-Black			15'	X8991-4004S	X8991-148S
		5. Green-Black			20'	X8991-69S	X8991-149S
		6. Orange-Black			25'	X8991-70S	X8991-150S
		7. Red			30'	X8991-71S	X8991-151S
		8. Green					
		9. Black					
		10. White					
12		1. Orange	600V, 7A	16	3'	X8992-3S	X8992-110S
		2. Blue			6'	X8992-4S	X8992-111S
		3. White-Black			12'	X8992-5S	X8992-112S
		4. Red-Black			15'	X8992-4036S	X8992-113S
		5. Green-Black			20'	X8992-69S	X8992-114S
		6. Orange-Black			25'	X8992-70S	X8992-115S
		7. Blue-Black			30'	X8992-71S	X8992-116S
		8. Black-White					
		9. Green					
		10. Red					
		11. White					
		12. Black					

# MINI-LINE SOOW MALE PLUG WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
9		1. Orange	600V, 7A	16	3'	X8990-6S	X8990-87S
		2. Blue			6'	X8990-7S	X8990-88S
		3. Red-Black			12'	X8990-8S	X8990-89S
		4. Green-Black			15'	X8990-4028S	X8990-90S
		5. White			20'	X8990-4029S	X8990-91S
		6. Red			25'	X8990-4030S	X8990-92S
		7. Green			30'	X8990-4017S	X8990-93S
		8. White-Black					
		9. Black					
10		1. Orange	600V, 7A	16	3'	X8991-6S	X8991-152S
		2. Blue			6'	X8991-7S	X8991-153S
		3. White-Black			12'	X8991-8S	X8991-154S
		4. Red-Black			15'	X8991-4067S	X8991-155S
		5. Green-Black			20'	X8991-4068S	X8991-156S
		6. Orange-Black			25'	X8991-4069S	X8991-157S
		7. Red			30'	X8991-4039S	X8991-158S
		8. Green					
		9. Black					
		10. White					
12		1. Orange	600V, 7A	16	3'	X8992-6S	X8992-117S
		2. Blue			6'	X8992-7S	X8992-118S
		3. White-Black			12'	X8992-8S	X8992-119S
		4. Red-Black			15'	X8992-615S	X8992-120S
		5. Green-Black			20'	X8992-4014S	X8992-121S
		6. Orange-Black			25'	X8992-4043S	X8992-122S
		7. Blue-Black			30'	X8992-4031S	X8992-123S
		8. Black-White					
		9. Green					
		10. Red					
		11. White					
		12. Black					

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

# **SPECIFICATIONS MINI-LINE STYLE III SOOW MALE TO FEMALE EXTENSIONS (9, 10 AND 12 POLE)**

- 16 AWG Standard Color Code
- 600V 105°C SOOW Cable
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## **TECHNICAL DATA**

### **Agency Approvals**

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### **Electrical Data**

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### **Environmental Data**

Protection:

NEMA 1, 3, 4, 6P, and 13; IEC IP 68

Temperature Range:

-50°C to +105°C

### **Material Data**

Body:

Yellow, 82A durometer, flame resistant PVC

Cable:

Yellow, SOOW per UL 62

Contacts:

Machined Brass per ASTM B-16

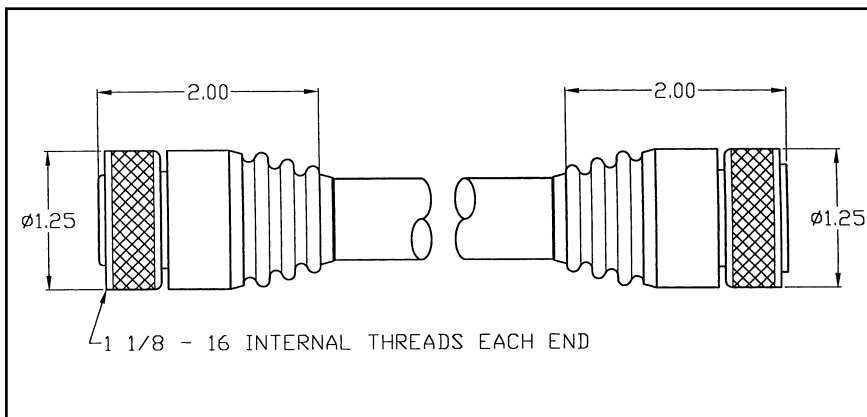
Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel




Coupling Nut:

Machined Aluminum with anodize finish and clear sealant

## **DIMENSIONS**



# MINI-LINE SOOW MALE TO FEMALE EXTENSIONS WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
9		1. Orange	600V, 7A	16	3'	X8990-33S
		2. Blue			6'	X8990-34S
		3. Red-Black			12'	X8990-35S
		4. Green-Black			15'	X8990-4031S
		5. White			20'	X8990-73S
		6. Red			25'	X8990-74S
		7. Green			30'	X8990-75S
		8. White-Black				
		9. Black				
10		1. Orange	600V, 7A	16	3'	X8991-33S
		2. Blue			6'	X8991-34S
		3. White-Black			12'	X8991-35S
		4. Red-Black			15'	X8991-4056S
		5. Green-Black			20'	X8991-73S
		6. Orange-Black			25'	X8991-74S
		7. Red			30'	X8991-75S
		8. Green				
		9. Black				
		10. White				
12		1. Orange	600V, 7A	16	3'	X8992-33S
		2. Blue			6'	X8992-34S
		3. White-Black			12'	X8992-35S
		4. Red-Black			15'	X8992-4035S
		5. Green-Black			20'	X8992-73S
		6. Orange-Black			25'	X8992-74S
		7. Blue-Black			30'	X8992-75S
		8. Black-White				
		9. Green				
		10. Red				
		11. White				
		12. Black				

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MINI-LINE STYLE III RECEPTACLES (9, 10 AND 12 POLE)

- Male and Female Receptacles
- Standard Color Code
- 16 AWG Pigtail Leads
- 600V 105°C
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

### Material Data

Insert:

Yellow, 82A durometer, flame resistant PVC

Pigtail leads:

Color Coded type MTW or AWM style 1015/1230

Contacts:

Machined Brass per ASTM B-16

Receptacle Shell:

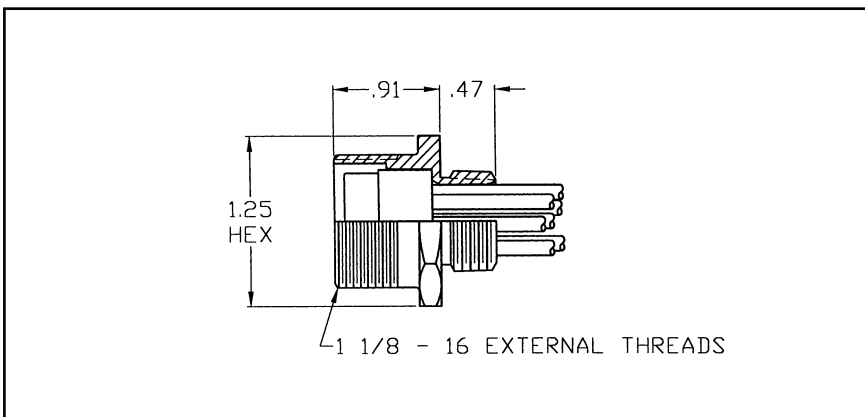
Machined Aluminum with anodize finish and clear sealant

303 Stainless Steel

Potting Compound:




Black rigid epoxy

## DIMENSIONS








## MINI-LINE FEMALE RECEPTACLES WITH MACHINED ALUMINUM RECEPTACLE SHELL




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" NPT
9		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. Red-Black</li> <li>4. Green-Black</li> <li>5. White</li> <li>6. Red</li> <li>7. Green</li> <li>8. White-Black</li> <li>9. Black</li> </ol>	600V, 7A	16	12"	X8990-1
10		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. White-Black</li> <li>4. Red-Black</li> <li>5. Green-Black</li> <li>6. Orange-Black</li> <li>7. Red</li> <li>8. Green</li> <li>9. Black</li> <li>10. White</li> </ol>	600V, 7A	16	12"	X8991-1
12		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. White-Black</li> <li>4. Red-Black</li> <li>5. Green-Black</li> <li>6. Orange-Black</li> <li>7. Blue-Black</li> <li>8. Black-White</li> <li>9. Green</li> <li>10. Red</li> <li>11. White</li> <li>12. Black</li> </ol>	600V, 7A	16	12"	X8992-1

## MINI-LINE MALE RECEPTACLES WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" NPT
9		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. Red-Black</li> <li>4. Green-Black</li> <li>5. White</li> <li>6. Red</li> <li>7. Green</li> <li>8. White-Black</li> <li>9. Black</li> </ol>	600V, 7A	16	12"	X8990-2
10		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. White-Black</li> <li>4. Red-Black</li> <li>5. Green-Black</li> <li>6. Orange-Black</li> <li>7. Red</li> <li>8. Green</li> <li>9. Black</li> <li>10. White</li> </ol>	600V, 7A	16	12"	X8991-2
12		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. White-Black</li> <li>4. Red-Black</li> <li>5. Green-Black</li> <li>6. Orange-Black</li> <li>7. Blue-Black</li> <li>8. Black-White</li> <li>9. Green</li> <li>10. Red</li> <li>11. White</li> <li>12. Black</li> </ol>	600V, 7A	16	12"	X8992-2




Note: Special lead lengths available upon request — consult factory.

# MINI-LINE FEMALE RECEPTACLES WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" NPT
9		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. Red-Black</li> <li>4. Green-Black</li> <li>5. White</li> <li>6. Red</li> <li>7. Green</li> <li>8. White-Black</li> <li>9. Black</li> </ol>	600V, 7A	16	12"	X8990-1X
10		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. White-Black</li> <li>4. Red-Black</li> <li>5. Green-Black</li> <li>6. Orange-Black</li> <li>7. Red</li> <li>8. Green</li> <li>9. Black</li> <li>10. White</li> </ol>	600V, 7A	16	12"	X8991-1X
12		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. White-Black</li> <li>4. Red-Black</li> <li>5. Green-Black</li> <li>6. Orange-Black</li> <li>7. Blue-Black</li> <li>8. Black-White</li> <li>9. Green</li> <li>10. Red</li> <li>11. White</li> <li>12. Black</li> </ol>	600V, 7A	16	12"	X8992-1X

Note: Special lead lengths available upon request — consult factory.

# MINI-LINE MALE RECEPTACLES WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" NPT
9		1. Orange 2. Blue 3. Red-Black 4. Green-Black 5. White 6. Red 7. Green 8. White-Black 9. Black	600V, 7A	16	12"	X8990-2X
10		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	600V, 7A	16	12"	X8991-2X
12		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Blue-Black 8. Black-White 9. Green 10. Red 11. White 12. Black	600V, 7A	16	12"	X8992-2X

Note: Special lead lengths available upon request — consult factory.

## SELECTION GUIDE MINI-LINE ADAPTERS

POLES	FEMALE MINI TO MALE AC MICRO	FEMALE AC MICRO TO MALE MINI
2	5000108-1	5000113-35
3	5000109-1	5000114-35
4	5000110-1	5000115-35
5	5000111-1	5000116-35



## SELECTION GUIDE MINI-LINE CLOSURE CAPS AND ADAPTERS

### CLOSURE CAPS / METAL

STYLE	PLUGS	RECEPTACLES
I	3316582-2A	3316582-1A
II	3316966	3316965
III	3317071-1	3317071

### CLOSURE CAPS / PLASTIC

STYLE	PLUGS	RECEPTACLES
I	A600196-6	A600196-2
II	A600494-4	A600494-3

### IN-LINE ADAPTERS

STYLE	METAL	PLASTIC
I	1316511	600216-2
II	1316964	600507-4
III	1317142	

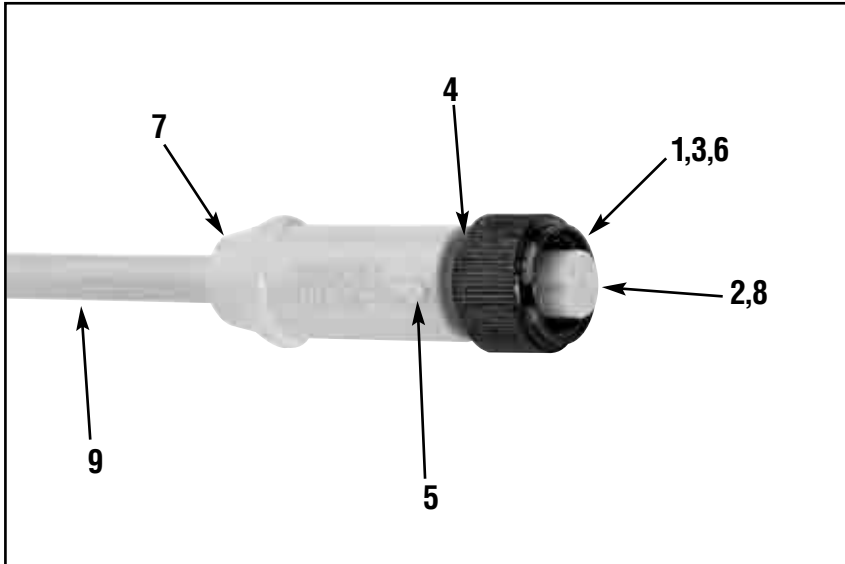


# MICRO-MINI CONNECTORS

**“THE  
TOUGH LINE  
FOR TOUGH  
JOBS”**

Crouse-Hinds has the largest selection of Micro-Mini connectors available on the market today. Our tough lines of connectors have been designed for low amperage AC or DC control systems and are ideally suited for use in abusive manufacturing environments. Our plugs are compatible with the pin configurations used by major sensor manufacturers in the U.S. and Europe and meet the current SAE H1738-2 specifications.

Factory molded-to-cable for durability, the Micro-Mini connectors are available with or without braided cable and with metal or nylon coupling nuts. Contact inserts are securely bonded in place using a unique and proprietary process.



## FEATURES & BENEFITS

- 1 **Epoxy-coated coupler** that passes 1000-hour salt-spray test per MIL-STD 202F for exceptional corrosion resistance.
  - 2 **Heavy-duty contact insert** provides superior strength for your most abusive applications.
  - 3 **Vibration-resistant ratchet coupler** design prevents loosening in severe, high-vibration applications.
  - 4 **Superior side load strength** in excess of 100 lbs., which surpasses current industry standards by five times.
  - 5 **Indicating arrow** for easy identification and proper keyway alignment.
  - 6 **Internal gasket** assures watertight performance to IP-68 and NEMA 6P rating.
  - 7 **Connector-to-cable molded junction** securely bonds for excellent reliability.
  - 8 **Gold plated contacts** provide superior conductivity and corrosion resistance.
  - 9 **Easy stripping PVC jacketed cable** with “fillerless” design allows fast stripping with simple hand tools with high-flex “tinned copper stranding for improved flexibility.
- Cable options** available for industrial applications with the following types:
- **AWM cable** with PVC jacket having oil resistant jacket and conductors
  - **Polyurethane “PUR” cable** with jacket having excellent oil and abrasion resistance
  - **SJOOW “thermoset” cable** with oil resistant jacket/conductors with higher resistance to automotive fluids
  - **“TPE” cable** with oil resistant jacket/conductors having elastomer jacket
  - **High-flex ROBOTIC cable** provides superior flexing in applications where combined continuous twisting and bending stresses occur.
- 10 Every unit is **100% electrically tested** using state of the art automated test equipment.



# SPECIFICATIONS MICRO-MINI DUAL KEY AC PLUGS (2-6 POLE)

- Male and Female Plugs
- 22 AWG Standard Color Code
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Rigid black Polyurethane

Cable:

Yellow, AWM UL style 2661

Contacts:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

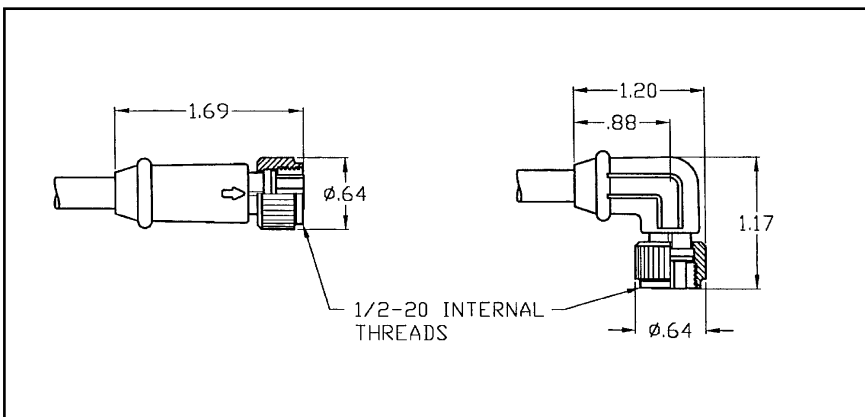
Coupling Nut:

Diecast Zamak 5 with black epoxy coat






Nylon 6/6 weather stabilized

303 Stainless Steel






## DIMENSIONS



## MICRO-MINI DUAL KEY FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT






POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 4A	22	6'	5000113-2	5000113-5
					12'	5000113-3	5000113-6
					20'	5000113-4	5000113-7
					25'	5000113-4019	5000113-4020
					30'	5000113-4021	5000113-4022
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6'	5000114-2	5000114-5
					12'	5000114-3	5000114-6
					20'	5000114-4	5000114-7
					25'	5000114-4025	5000114-4096
					30'	5000114-4097	5000114-4063
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6'	5000115-2	5000115-5
					12'	5000115-3	5000115-6
					20'	5000115-4	5000115-7
					25'	5000115-4052	5000115-4053
					30'	5000115-4054	5000115-4055
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6'	5000116-2	5000116-5
					12'	5000116-3	5000116-6
					20'	5000116-4	5000116-7
					25'	5000116-4054	5000116-4055
					30'	5000116-4056	5000116-4057
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	6'	5000127-2	5000127-5
					12'	5000127-3	5000127-6
					20'	5000127-4	5000127-7
					25'	5000127-4016	5000127-4017
					30'	5000127-4018	5000127-4019

## MICRO-MINI DUAL KEY MALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT






POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 4A	22	6'	5000113-28	5000113-31
					12'	5000113-29	5000113-32
					20'	5000113-30	5000113-33
					25'	5000113-4024	5000113-4002
					30'	5000113-4026	5000113-4027
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6'	5000114-28	5000114-31
					12'	5000114-29	5000114-32
					20'	5000114-30	5000114-33
					25'	5000114-4098	5000114-4099
					30'	5000114-4100	5000114-4101
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6'	5000115-28	5000115-31
					12'	5000115-29	5000115-32
					20'	5000115-30	5000115-33
					25'	5000115-4056	5000115-4057
					30'	5000115-4058	5000115-4059
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6'	5000116-28	5000116-31
					12'	5000116-29	5000116-32
					20'	5000116-30	5000116-33
					25'	5000116-4058	5000116-4059
					30'	5000116-4060	5000116-4061
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	6'	5000127-28	5000127-31
					12'	5000127-29	5000127-32
					20'	5000127-30	5000127-33
					25'	5000127-4020	5000127-4021
					30'	5000127-4022	5000127-4023

Note: Special lengths available upon request — consult factory.

## MICRO-MINI DUAL KEY FEMALE PLUG WITH NYLON COUPLING NUT






POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 4A	22	6' 12' 20' 25' 30'	5000113-2N 5000113-3N 5000113-4N 5000113-4019N 5000113-4021N	5000113-5N 5000113-6N 5000113-7N 5000113-4020N 5000113-4022N
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6' 12' 20' 25' 30'	5000114-2N 5000114-3N 5000114-4N 5000114-4025N 5000114-4097N	5000114-5N 5000114-6N 5000114-7N 5000114-4096N 5000114-4063N
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6' 12' 20' 25' 30'	5000115-2N 5000115-3N 5000115-4N 5000115-4052N 5000115-4054N	5000115-5N 5000115-6N 5000115-7N 5000115-4053N 5000115-4055N
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6' 12' 20' 25' 30'	5000116-2N 5000116-3N 5000116-4N 5000116-4054N 5000116-4056N	5000116-5N 5000116-6N 5000116-7N 5000116-4055N 5000116-4057N
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	6' 12' 20' 25' 30'	5000127-2N 5000127-3N 5000127-4N 5000127-4016N 5000127-4018N	5000127-5N 5000127-6N 5000127-7N 5000127-4017N 5000127-4019N

## MICRO-MINI DUAL KEY MALE PLUG WITH NYLON COUPLING NUT






POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 4A	22	6' 12' 20' 25' 30'	5000113-28N 5000113-29N 5000113-30N 5000113-4024N 5000113-4026N	5000113-31N 5000113-32N 5000113-33N 5000113-4002N 5000113-4027N
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6' 12' 20' 25' 30'	5000114-28N 5000114-29N 5000114-30N 5000114-4098N 5000114-4100N	5000114-31N 5000114-32N 5000114-33N 5000114-4099N 5000114-4101N
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6' 12' 20' 25' 30'	5000115-28N 5000115-29N 5000115-30N 5000115-4056N 5000115-4058N	5000115-31N 5000115-32N 5000115-33N 5000115-4057N 5000115-4059N
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6' 12' 20' 25' 30'	5000116-28N 5000116-29N 5000116-30N 5000116-4058N 5000116-4060N	5000116-31N 5000116-32N 5000116-33N 5000116-4059N 5000116-4061N
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	6' 12' 20' 25' 30'	5000127-28N 5000127-29N 5000127-30N 5000127-4020N 5000127-4022N	5000127-31N 5000127-32N 5000127-33N 5000127-4021N 5000127-4023N

Note: Special lengths available upon request — consult factory.

## MICRO-MINI DUAL KEY FEMALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 4A	22	6'	5000113-2X	5000113-5X
					12'	5000113-3X	5000113-6X
					20'	5000113-4X	5000113-7X
					25'	5000113-4019X	5000113-4020X
					30'	5000113-4021X	5000113-4022X
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6'	5000114-2X	5000114-5X
					12'	5000114-3X	5000114-6X
					20'	5000114-4X	5000114-7X
					25'	5000114-4025X	5000114-4096X
					30'	5000114-4097X	5000114-4063X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6'	5000115-2X	5000115-5X
					12'	5000115-3X	5000115-6X
					20'	5000115-4X	5000115-7X
					25'	5000115-4052X	5000115-4053X
					30'	5000115-4054X	5000115-4055X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6'	5000116-2X	5000116-5X
					12'	5000116-3X	5000116-6X
					20'	5000116-4X	5000116-7X
					25'	5000116-4054X	5000116-4055X
					30'	5000116-4056X	5000116-4057X
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	6'	5000127-2X	5000127-5X
					12'	5000127-3X	5000127-6X
					20'	5000127-4X	5000127-7X
					25'	5000127-4016X	5000127-4017X
					30'	5000127-4018X	5000127-4019X

## MICRO-MINI DUAL KEY MALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 4A	22	6'	5000113-28X	5000113-31X
					12'	5000113-29X	5000113-32X
					20'	5000113-30X	5000113-33X
					25'	5000113-4024X	5000113-4002X
					30'	5000113-4026X	5000113-4027X
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6'	5000114-28X	5000114-31X
					12'	5000114-29X	5000114-32X
					20'	5000114-30X	5000114-33X
					25'	5000114-4098X	5000114-4099X
					30'	5000114-4100X	5000114-4101X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6'	5000115-28X	5000115-31X
					12'	5000115-29X	5000115-32X
					20'	5000115-30X	5000115-33X
					25'	5000115-4056X	5000115-4057X
					30'	5000115-4058X	5000115-4059X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6'	5000116-28X	5000116-31X
					12'	5000116-29X	5000116-32X
					20'	5000116-30X	5000116-33X
					25'	5000116-4058X	5000116-4059X
					30'	5000116-4060X	5000116-4061X
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	6'	5000127-28X	5000127-31X
					12'	5000127-29X	5000127-32X
					20'	5000127-30X	5000127-33X
					25'	5000127-4020X	5000127-4021X
					30'	5000127-4022X	5000127-4023X

Note: Special lengths available upon request — consult factory.

# SPECIFICATIONS MICRO-MINI DUAL KEY AC PLUGS (2-5 POLE)

- Male and Female Plugs
- 18 AWG Standard Color Code
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Rigid black Polyurethane

Cable:

Yellow, AWM UL style 2661

Contacts:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

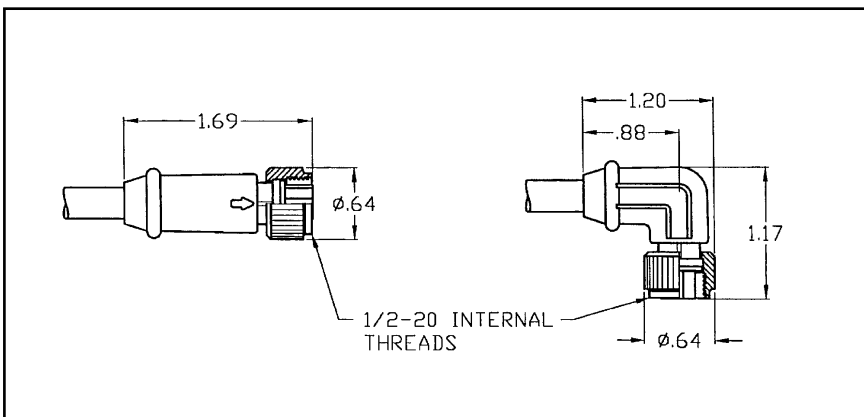
Coupling Nut:

Diecast Zamak 5 with black epoxy coat

Nylon 6/6 weather stabilized





303 Stainless Steel

## DIMENSIONS









## MICRO-MINI DUAL KEY FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT





POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 5A	18	6'	5000113-8	5000113-11
					12'	5000113-9	5000113-12
					20'	5000113-10	5000113-13
					25'	5000113-4036	5000113-4037
					30'	5000113-4038	5000113-4039
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-8	5000114-11
					12'	5000114-9	5000114-12
					20'	5000114-10	5000114-13
					25'	5000114-4111	5000114-4112
					30'	5000114-4037	5000114-4045
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-8	5000115-11
					12'	5000115-9	5000115-12
					20'	5000115-10	5000115-13
					25'	5000115-4067	5000115-4068
					30'	5000115-4033	5000115-4069
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-8	5000116-11
					12'	5000116-9	5000116-12
					20'	5000116-10	5000116-13
					25'	5000116-4069	5000116-4070
					30'	5000116-4071	5000116-4072

## MICRO-MINI DUAL KEY MALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT





POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 5A	18	6'	5000113-20	5000113-23
					12'	5000113-21	5000113-24
					20'	5000113-22	5000113-25
					25'	5000113-4041	5000113-4042
					30'	5000113-4043	5000113-4044
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-20	5000114-23
					12'	5000114-21	5000114-24
					20'	5000114-22	5000114-25
					25'	5000114-4114	5000114-4115
					30'	5000114-4116	5000114-4117
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-20	5000115-23
					12'	5000115-21	5000115-24
					20'	5000115-22	5000115-25
					25'	5000115-4070	5000115-4071
					30'	5000115-4072	5000115-4073
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-20	5000116-23
					12'	5000116-21	5000116-24
					20'	5000116-22	5000116-25
					25'	5000116-4074	5000116-4075
					30'	5000116-4039	5000116-4076

Note: Special lengths available upon request — consult factory.

## MICRO-MINI DUAL KEY FEMALE PLUG WITH NYLON COUPLING NUT





POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 5A	18	6' 12' 20' 25' 30'	5000113-8N 5000113-9N 5000113-10N 5000113-4036N 5000113-4038N	5000113-11N 5000113-12N 5000113-13N 5000113-4037N 5000113-4039N
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6' 12' 20' 25' 30'	5000114-8N 5000114-9N 5000114-10N 5000114-4111N 5000114-4037N	5000114-11N 5000114-12N 5000114-13N 5000114-4112N 5000114-4045N
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6' 12' 20' 25' 30'	5000115-8N 5000115-9N 5000115-10N 5000115-4067N 5000115-4033N	5000115-11N 5000115-12N 5000115-13N 5000115-4068N 5000115-4069N
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6' 12' 20' 25' 30'	5000116-8N 5000116-9N 5000116-10N 5000116-4069N 5000116-4071N	5000116-11N 5000116-12N 5000116-13N 5000116-4070N 5000116-4072N

## MICRO-MINI DUAL KEY MALE PLUG WITH NYLON COUPLING NUT





POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 5A	18	6' 12' 20' 25' 30'	5000113-20N 5000113-21N 5000113-22N 5000113-4041N 5000113-4043N	5000113-23N 5000113-24N 5000113-25N 5000113-4042N 5000113-4044N
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6' 12' 20' 25' 30'	5000114-20N 5000114-21N 5000114-22N 5000114-4114N 5000114-4116N	5000114-23N 5000114-24N 5000114-25N 5000114-4115N 5000114-4117N
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6' 12' 20' 25' 30'	5000115-20N 5000115-21N 5000115-22N 5000115-4070N 5000115-4072N	5000115-23N 5000115-24N 5000115-25N 5000115-4071N 5000115-4073N
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6' 12' 20' 25' 30'	5000116-20N 5000116-21N 5000116-22N 5000116-4074N 5000116-4039N	5000116-23N 5000116-24N 5000116-25N 5000116-4075N 5000116-4076N

Note: Special lengths available upon request — consult factory.

## MICRO-MINI DUAL KEY FEMALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 5A	18	6'	5000113-8X	5000113-11X
					12'	5000113-9X	5000113-12X
					20'	5000113-10X	5000113-13X
					25'	5000113-4036X	5000113-4037X
					30'	5000113-4038X	5000113-4039X
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-8X	5000114-11X
					12'	5000114-9X	5000114-12X
					20'	5000114-10X	5000114-13X
					25'	5000114-4111X	5000114-4112X
					30'	5000114-4037X	5000114-4045X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-8X	5000115-11X
					12'	5000115-9X	5000115-12X
					20'	5000115-10X	5000115-13X
					25'	5000115-4067X	5000115-4068X
					30'	5000115-4033X	5000115-4069X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-8X	5000116-11X
					12'	5000116-9X	5000116-12X
					20'	5000116-10X	5000116-13X
					25'	5000116-4069X	5000116-4070X
					30'	5000116-4071X	5000116-4072X

## MICRO-MINI DUAL KEY MALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 5A	18	6'	5000113-20X	5000113-23X
					12'	5000113-21X	5000113-24X
					20'	5000113-22X	5000113-25X
					25'	5000113-4041X	5000113-4042X
					30'	5000113-4043X	5000113-4044X
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-20X	5000114-23X
					12'	5000114-21X	5000114-24X
					20'	5000114-22X	5000114-25X
					25'	5000114-4114X	5000114-4115X
					30'	5000114-4116X	5000114-4117X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-20X	5000115-23X
					12'	5000115-21X	5000115-24X
					20'	5000115-22X	5000115-25X
					25'	5000115-4070X	5000115-4071X
					30'	5000115-4072X	5000115-4073X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-20X	5000116-23X
					12'	5000116-21X	5000116-24X
					20'	5000116-22X	5000116-25X
					25'	5000116-4074X	5000116-4075X
					30'	5000116-4039X	5000116-4076X

Note: Special lengths available upon request — consult factory.

# SPECIFICATIONS MICRO-MINI DUAL KEY AC PLUGS WITH BRAIDED CABLE (3 AND 5 POLE)

- Male, Female and Male-In-Line Plugs
- 22 AWG Standard Color Code
- 300V 105°C AWM Braided Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Rigid black Polyurethane

Cable:

Yellow, AWM UL style 2661, with 85% coverage braided shield

Contacts:

Machined Brass

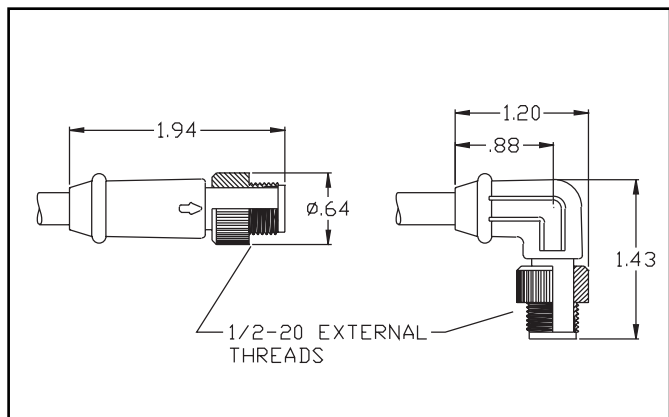
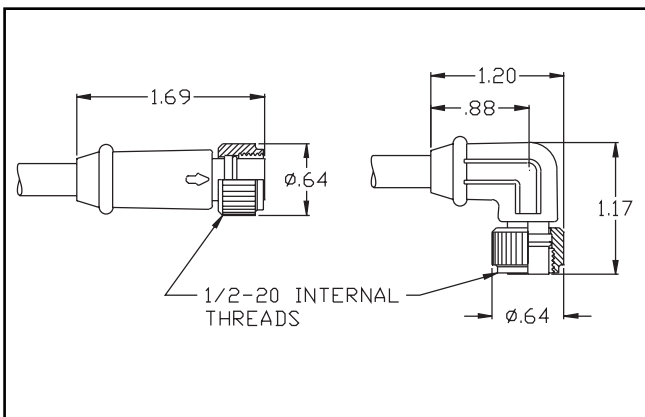
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel



Coupling Nut:

Diecast Zamak 5 with black epoxy coat



## DIMENSIONS





## MICRO-MINI DUAL KEY FEMALE PLUG WITH BRAIDED CABLE

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6'	5000114-2B	5000114-5B
					12'	5000114-3B	5000114-6B
					20'	5000114-4B	5000114-7B
					25'	5000114-4025B	5000114-4026B
					30'	5000114-4097B	5000114-4063B
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6'	5000116-2B	5000116-5B
					12'	5000116-3B	5000116-6B
					20'	5000116-4B	5000116-7B
					25'	5000116-4054B	5000116-4055B
					30'	5000116-4056B	5000116-4057B

## MICRO-MINI DUAL KEY MALE PLUG WITH BRAIDED CABLE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6'	5000114-28B	5000114-31B
					12'	5000114-29B	5000114-32B
					20'	5000114-30B	5000114-33B
					25'	5000114-4098B	5000114-4099B
					30'	5000114-4100B	5000114-4101B
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6'	5000116-28B	5000116-31B
					12'	5000116-29B	5000116-32B
					20'	5000116-30B	5000116-33B
					25'	5000116-4058B	5000116-4059B
					30'	5000116-4060B	5000116-4061B

## MICRO-MINI DUAL KEY MALE-IN-LINE PLUG WITH BRAIDED CABLE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6'	5000114-59B	5000114-65B
					12'	5000114-60B	5000114-66B
					20'	5000114-61B	5000114-67B
					25'	5000114-4107B	5000114-4108B
					30'	5000114-4109B	5000114-4110B
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6'	5000116-59B	5000116-65B
					12'	5000116-60B	5000116-66B
					20'	5000116-61B	5000116-67B
					25'	5000116-4065B	5000116-4066B
					30'	5000116-4067B	5000116-4068B

Cable: Yellow, AWM UL style 2661, with 85% coverage braided shield

Note: Special lengths available upon request — consult factory.

Stainless steel coupling nut available — consult factory.



# SPECIFICATIONS MICRO-MINI DUAL KEY AC MALE-IN-LINE PLUGS (2-6 POLE)

- 22 AWG Standard Color Code
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Rigid black Polyurethane

Cable:

Yellow, AWM UL style 2661

Contacts:

Machined Brass

Contact Plating:

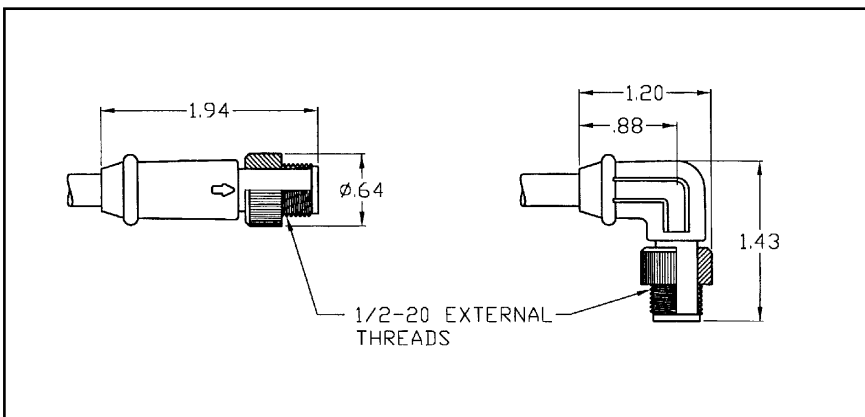
30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:






Diecast Zamak 5 with black epoxy coat

303 Stainless Steel






## DIMENSIONS



# MICRO-MINI DUAL KEY MALE-IN-LINE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 4A	22	6' 12' 20' 25' 30'	5000113-59 5000113-60 5000113-61 5000113-4029 5000113-4031	5000113-65 5000113-66 5000113-67 5000113-4030 5000113-4032
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6' 12' 20' 25' 30'	5000114-59 5000114-60 5000114-61 5000114-4107 5000114-4109	5000114-65 5000114-66 5000114-67 5000114-4108 5000114-4110
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6' 12' 20' 25' 30'	5000115-59 5000115-60 5000115-61 5000115-4063 5000115-4065	5000115-65 5000115-66 5000115-67 5000115-4064 5000115-4066
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6' 12' 20' 25' 30'	5000116-59 5000116-60 5000116-61 5000116-4065 5000116-4067	5000116-65 5000116-66 5000116-67 5000116-4066 5000116-4068
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	6' 12' 20' 25' 30'	5000127-59 5000127-60 5000127-61 5000127-4029 5000127-4031	5000127-65 5000127-66 5000127-67 5000127-4030 5000127-4032

# MICRO-MINI DUAL KEY MALE-IN-LINE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 4A	22	6' 12' 20' 25' 30'	5000113-59X 5000113-60X 5000113-61X 5000113-4029X 5000113-4031X	5000113-65X 5000113-66X 5000113-67X 5000113-4030X 5000113-4032X
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6' 12' 20' 25' 30'	5000114-59X 5000114-60X 5000114-61X 5000114-4107X 5000114-4109X	5000114-65X 5000114-66X 5000114-67X 5000114-4108X 5000114-4110X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6' 12' 20' 25' 30'	5000115-59X 5000115-60X 5000115-61X 5000115-4063X 5000115-4065X	5000115-65X 5000115-66X 5000115-67X 5000115-4064X 5000115-4066X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6' 12' 20' 25' 30'	5000116-59X 5000116-60X 5000116-61X 5000116-4065X 5000116-4067X	5000116-65X 5000116-66X 5000116-67X 5000116-4066X 5000116-4068X
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	6' 12' 20' 25' 30'	5000127-59X 5000127-60X 5000127-61X 5000127-4029X 5000127-4031X	5000127-65X 5000127-66X 5000127-67X 5000127-4030X 5000127-4032X

Note: Special lengths available upon request — consult factory.

# SPECIFICATIONS MICRO-MINI DUAL KEY AC MALE-IN-LINE PLUGS (2-5 POLE)

- 18 AWG Standard Color Code
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Rigid black Polyurethane

Cable:

Yellow, AWM UL style 2661

Contacts:

Machined Brass

Contact Plating:

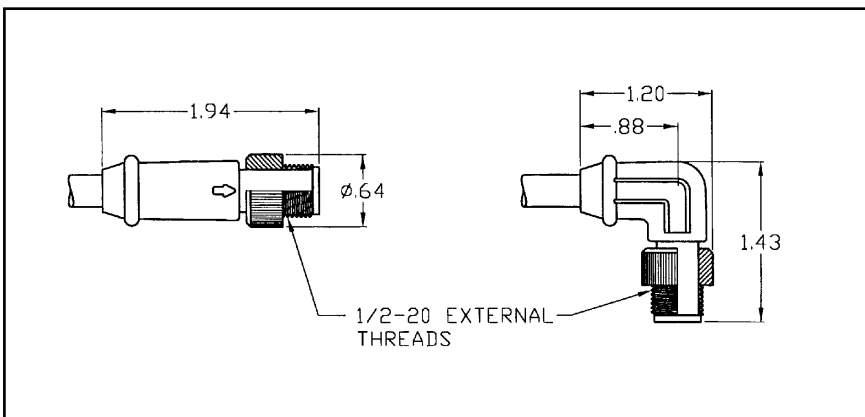
30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:





Diecast Zamak 5 with black epoxy coat

303 Stainless Steel





## DIMENSIONS



## MICRO-MINI DUAL KEY MALE-IN-LINE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 5A	18	6'	5000113-62	5000113-68
					12'	5000113-63	5000113-69
					20'	5000113-64	5000113-70
					25'	5000113-4049	5000113-4050
					30'	5000113-4051	5000113-4052
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-62	5000114-68
					12'	5000114-63	5000114-69
					20'	5000114-64	5000114-70
					25'	5000114-4121	5000114-4122
					30'	5000114-4123	5000114-4124
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-62	5000115-68
					12'	5000115-63	5000115-69
					20'	5000115-64	5000115-70
					25'	5000115-4076	5000115-4077
					30'	5000115-4078	5000115-4079
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-62	5000116-68
					12'	5000116-63	5000116-69
					20'	5000116-64	5000116-70
					25'	5000116-4082	5000116-4083
					30'	5000116-4084	5000116-4085

## MICRO-MINI DUAL KEY MALE-IN-LINE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 5A	18	6'	5000113-62X	5000113-68X
					12'	5000113-63X	5000113-69X
					20'	5000113-64X	5000113-70X
					25'	5000113-4049X	5000113-4050X
					30'	5000113-4051X	5000113-4052X
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-62X	5000114-68X
					12'	5000114-63X	5000114-69X
					20'	5000114-64X	5000114-70X
					25'	5000114-4121X	5000114-4122X
					30'	5000114-4123X	5000114-4124X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-62X	5000115-68X
					12'	5000115-63X	5000115-69X
					20'	5000115-64X	5000115-70X
					25'	5000115-4076X	5000115-4077X
					30'	5000115-4078X	5000115-4079X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-62X	5000116-68X
					12'	5000116-63X	5000116-69X
					20'	5000116-64X	5000116-70X
					25'	5000116-4082X	5000116-4083X
					30'	5000116-4084X	5000116-4085X

Note: Special lengths available upon request — consult factory.

# SPECIFICATIONS MICRO-MINI DUAL KEY MALE TO FEMALE EXTENSIONS (2-6 POLE)

- 18 and 22 AWG Standard Color Code
- 300V 105°C AWM Cable
- Straight and Right Angle Versions Available – C/F
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Rigid black Polyurethane

Cable:

Yellow, AWM UL style 2661

Contacts:

Machined Brass

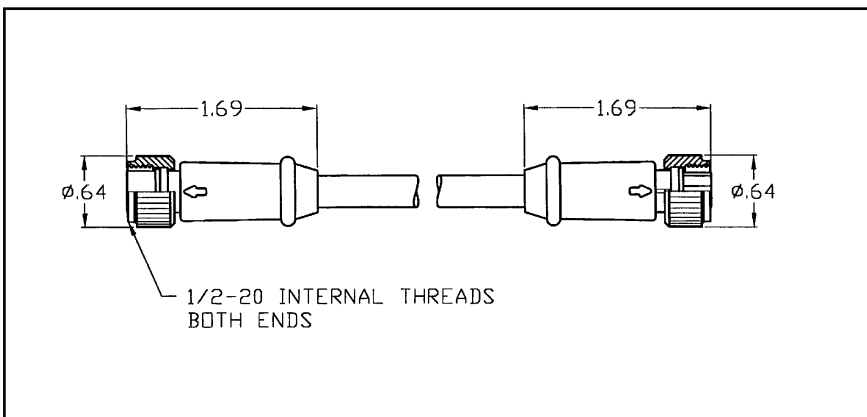
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Diecast Zamak 5 with black epoxy coat






## DIMENSIONS









## MICRO-MINI DUAL KEY MALE TO FEMALE EXTENSIONS

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
2		1. Brown 2. Blue	300V, 4A	22	6' 12' 20' 25' 30'	5000113-204 5000113-205 5000113-206 5000113-4053 5000113-4054
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6' 12' 20' 25' 30'	5000114-204 5000114-205 5000114-206 5000114-4125 5000114-4126
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6' 12' 20' 25' 30'	5000115-204 5000115-205 5000115-206 5000115-4080 5000115-4081
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6' 12' 20' 25' 30'	5000116-204 5000116-205 5000116-206 5000116-4086 5000116-4087
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 4A	22	6' 12' 20' 25' 30'	5000127-204 5000127-205 5000127-206 5000127-4035 5000127-4036

## MICRO-MINI DUAL KEY MALE TO FEMALE EXTENSIONS

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
2		1. Brown 2. Blue	300V, 5A	18	6' 12' 20' 25' 30'	5000113-201 5000113-202 5000113-203 5000113-4055 5000113-4056
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6' 12' 20' 25' 30'	5000114-201 5000114-202 5000114-203 5000114-4127 5000114-4128
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6' 12' 20' 25' 30'	5000115-201 5000115-202 5000115-203 5000115-4082 5000115-4083
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6' 12' 20' 25' 30'	5000116-201 5000116-202 5000116-203 5000116-4088 5000116-4089

Note: Special lengths available upon request — consult factory.

Male in-line coupling nut available upon request — consult factory.

Nylon and stainless steel available upon request — consult factory.

Right angle male and female plugs available — consult factory.

# SPECIFICATIONS MICRO-MINI DUAL KEY AC SJOOW PLUGS (3 AND 4 POLE)

- Male, Female and Male-In-Line Plugs
- 18 AWG Standard Color Code
- 300V 105°C SJOOW Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-50°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Rigid black Polyurethane

Cable:

Yellow, SJOOW per UL-62

Contacts:

Machined Brass

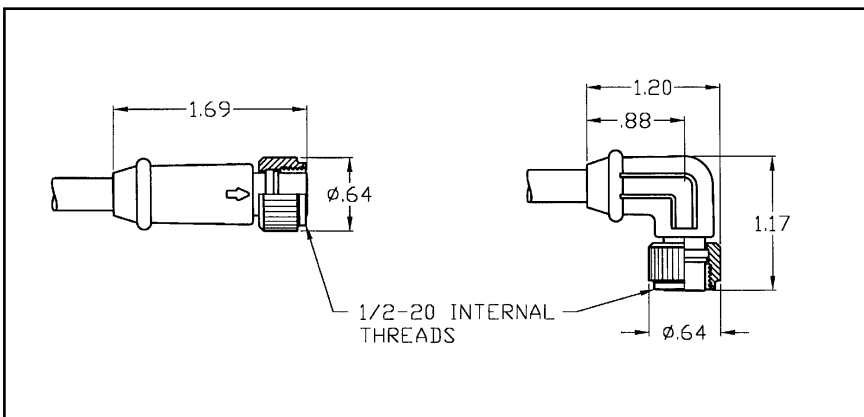
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel




Coupling Nut:

Diecast Zamak 5 with black epoxy coat




## DIMENSIONS






## MICRO-MINI DUAL KEY FEMALE PLUG SJOOW CABLE

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-8S	5000114-11S
					12'	5000114-9S	5000114-12S
					20'	5000114-10S	5000114-13S
					25'	5000114-4111S	5000114-4112S
					30'	5000114-4037S	5000114-4045S
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-8S	5000115-11S
					12'	5000115-9S	5000115-12S
					20'	5000115-10S	5000115-13S
					25'	5000115-4067S	5000115-4068S
					30'	5000115-4033S	5000115-4069S
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-8S	5000116-11S
					12'	5000116-9S	5000116-12S
					20'	5000116-10S	5000116-13S
					25'	5000116-4067S	5000116-4068S
					30'	5000116-4033S	5000116-4069S

## MICRO-MINI DUAL KEY MALE PLUG SJOOW CABLE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-20S	5000114-23S
					12'	5000114-21S	5000114-24S
					20'	5000114-22S	5000114-25S
					25'	5000114-4114S	5000114-4115S
					30'	5000114-4116S	5000114-4117S
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-20S	5000115-23S
					12'	5000115-21S	5000115-24S
					20'	5000115-22S	5000115-25S
					25'	5000115-4070S	5000115-4071S
					30'	5000115-4072S	5000115-4073S
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-20S	5000116-23S
					12'	5000116-21S	5000116-24S
					20'	5000116-22S	5000116-25S
					25'	5000116-4070S	5000116-4071S
					30'	5000116-4072S	5000116-4073S

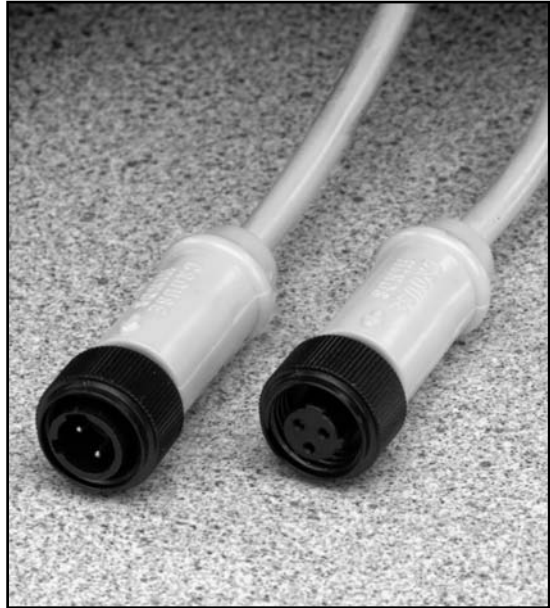
## MICRO-MINI DUAL KEY MALE-IN-LINE PLUG SJOOW CABLE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-62S	5000114-68S
					12'	5000114-63S	5000114-69S
					20'	5000114-64S	5000114-70S
					25'	5000114-4121S	5000114-4122S
					30'	5000114-4123S	5000114-4124S
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-62S	5000115-68S
					12'	5000115-63S	5000115-69S
					20'	5000115-64S	5000115-70S
					25'	5000115-4076S	5000115-4077S
					30'	5000115-4078S	5000115-4079S
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-62S	5000116-68S
					12'	5000116-63S	5000116-69S
					20'	5000116-64S	5000116-70S
					25'	5000116-4076S	5000116-4077S
					30'	5000116-4078S	5000116-4079S

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MICRO-MINI DUAL KEY AC TPE PLUGS (3 AND 5 POLE)

- Male, Female and Male-In-Line Plugs
- 18 AWG Standard Color Code
- 300V 90°C TPE Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-24°C to +90°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Rigid black Polyurethane

Cable:

Yellow, TPE

Contacts:

Machined Brass

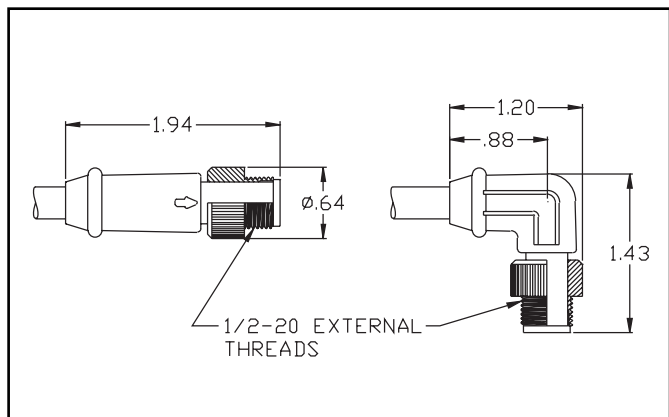
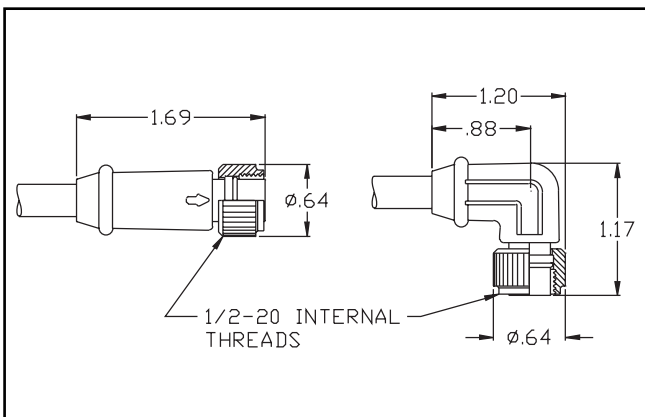
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel



Coupling Nut:

Diecast Zamak 5 with black epoxy coat



## DIMENSIONS





## MICRO-MINI DUAL KEY FEMALE PLUG TPE CABLE

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-8A	5000114-11A
					12'	5000114-9A	5000114-12A
					20'	5000114-10A	5000114-13A
					25'	5000114-4111A	5000114-4112A
					30'	5000114-4037A	5000114-4045A
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 4. Red-Black	300V, 5A	18	6'	5000116-8A	5000116-11A
					12'	5000116-9A	5000116-12A
					20'	5000116-10A	5000116-13A
					25'	5000116-4067A	5000116-4068A
					30'	5000116-4033A	5000116-4069A

## MICRO-MINI DUAL KEY MALE PLUG TPE CABLE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-20A	5000114-23A
					12'	5000114-21A	5000114-24A
					20'	5000114-22A	5000114-25A
					25'	5000114-4114A	5000114-4115A
					30'	5000114-4116A	5000114-4117A
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 4. Red-Black	300V, 5A	18	6'	5000116-20A	5000116-23A
					12'	5000116-21A	5000116-24A
					20'	5000116-22A	5000116-25A
					25'	5000116-4070A	5000116-4071A
					30'	5000116-4072A	5000116-4073A

## MICRO-MINI DUAL KEY MALE-IN-LINE PLUG TPE CABLE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-62A	5000114-68A
					12'	5000114-63A	5000114-69A
					20'	5000114-64A	5000114-70A
					25'	5000114-4121A	5000114-4122A
					30'	5000114-4123A	5000114-4124A
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 4. Red-Black	300V, 5A	18	6'	5000116-62A	5000116-68A
					12'	5000116-63A	5000116-69A
					20'	5000116-64A	5000116-70A
					25'	5000116-4076A	5000116-4077A
					30'	5000116-4078A	5000116-4079A

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.



# SPECIFICATIONS MICRO-MINI DUAL KEY Y-SPLITTER (4 POLE)

- 18 AWG Standard Color Code
- 300V 105°C AWM Cable
- Standard and Low Profile Versions Available
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Black, Polyurethane

Cable:

Yellow, AWM UL style 2661

Contacts:

Machined Brass

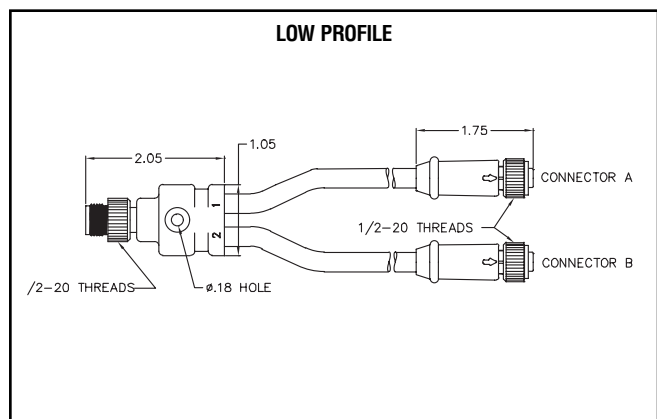
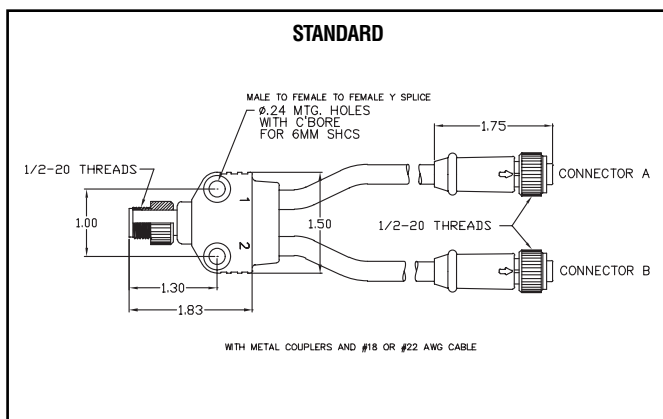
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel


Coupling Nut:

Diecast Zamak 5 with black epoxy coat

## DIMENSIONS

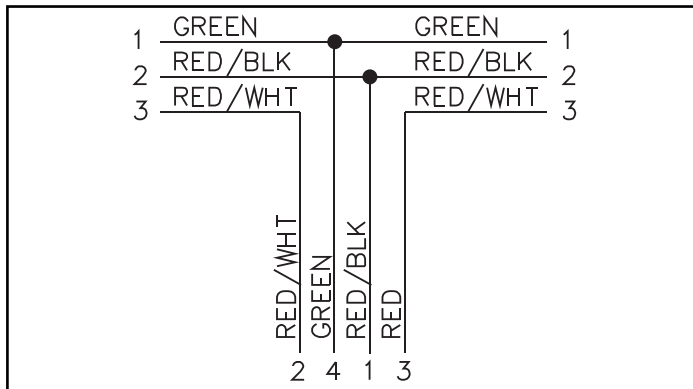


# MICRO-MINI DUAL KEY Y-SPLITTER

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STANDARD	LOW PROFILE
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	12"	5000115-273	5000115-153

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MICRO-MINI DUAL KEY T-SPLITTER (3 POLE)

- 22 AWG Standard Color Code
- 300V 105°C AWM Cable
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Black, Polyurethane

Cable:

Yellow, AWM UL style 2661

Contacts:

Machined Brass

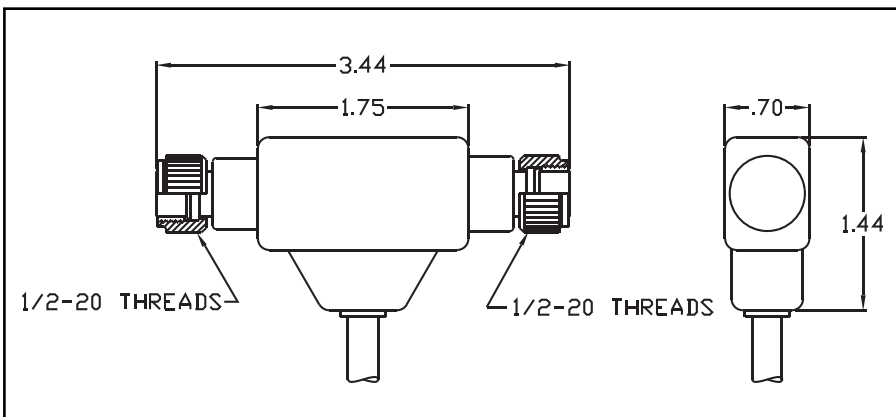
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel


Coupling Nut:

Diecast Zamak 5 with black epoxy coat

## DIMENSIONS

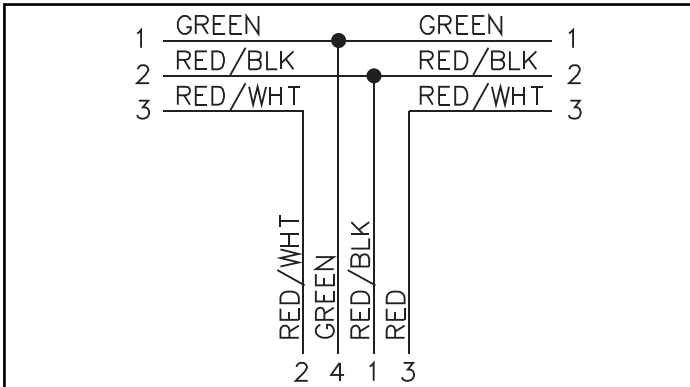


# MICRO-MINI DUAL KEY T-SPLITTER

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	SPLITTER
3		1. Green 2. Red-Black (1) 2. Red (2) 3. Red-White	300V, 4A	22	3' 6' 12'	5000114-270 5000114-271 5000114-272

Note: Special cable lengths available upon request — consult factory.  
 Stainless steel coupling nut available — consult factory.  
 Braided cable available upon request — consult factory.  
 Male in-line version available upon request — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MICRO-MINI DUAL KEY TAPPING TEE (2-5 POLE)

- Standard and Low Profile Configurations
- 18 AWG and 22 AWG Standard Color Code
- 300V 105°C
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Black, Polyurethane

Cable:

Yellow, AWM UL style 2661

Contacts:

Machined Brass

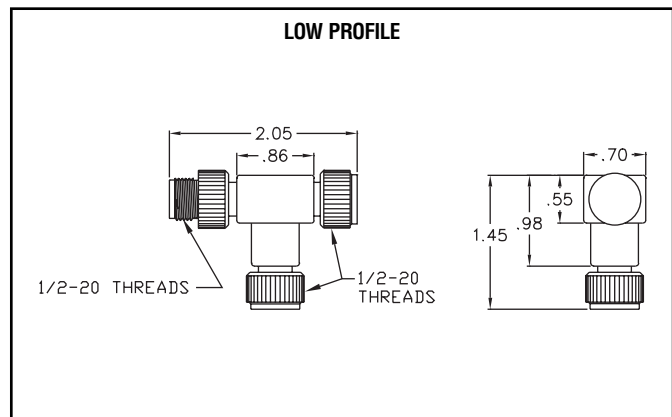
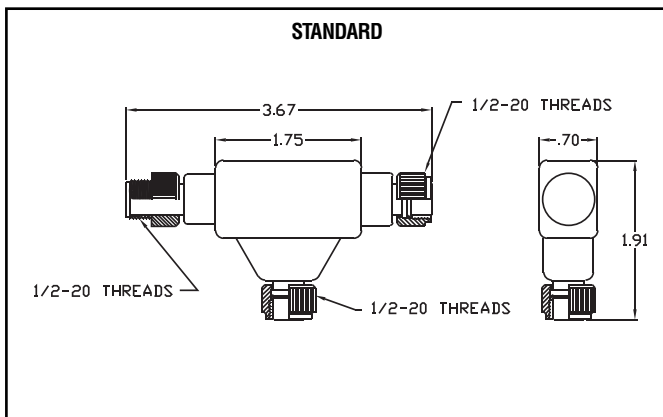
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:





Diecast Zamak 5 with black epoxy coat

## DIMENSIONS









## MICRO-MINI DUAL KEY TAPPING TEE

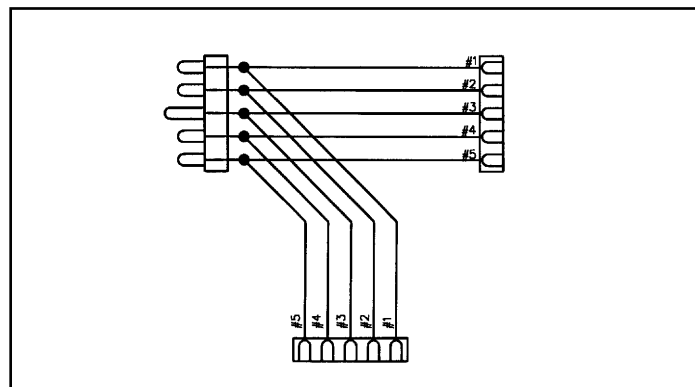
POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	STANDARD
2		1. Brown 2. Blue	300V, 5A	18	5000113-276
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	5000114-276
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	5000115-276
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	5000116-276

## MICRO-MINI DUAL KEY LOW PROFILE TEE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LOW PROFILE
2		1. Brown 2. Blue	300V, 4A	22	5000113-155
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	5000114-455
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	5000115-155
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	5000116-155

Note: Stainless steel coupling nut available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MICRO-MINI DUAL KEY AC RECEPTACLES (2-6 POLE)

- Male and Female Receptacles
- 22 AWG
- 300V 105°C
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20° to +105°C

### Material Data

Insert:

Black, Nylon 6/6

Pigtail Leads:

AWM/MTW UL style 1430 or 1569

Contacts:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Receptacle Shell:

Machined Aluminum with anodize finish and clear sealant

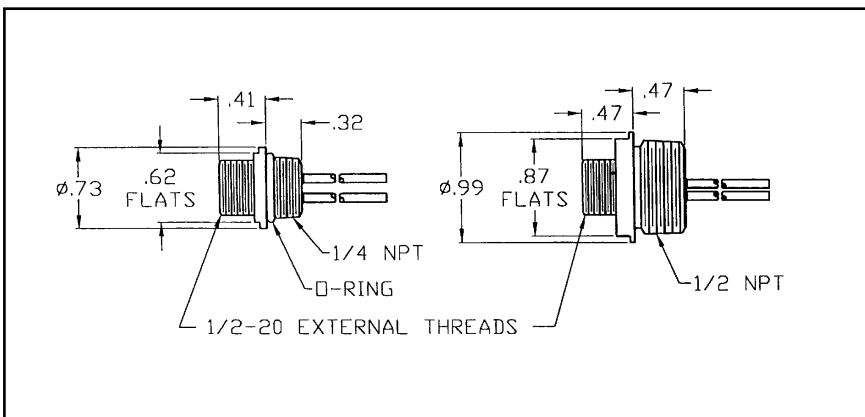
Nylon 6/6 weather stabilized (except 1/2" — NPT design)

303 Stainless Steel





Potting Compound:

Black rigid epoxy






## DIMENSIONS



## MICRO-MINI DUAL KEY FEMALE RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL





POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT	1/2"-NPT
2		1. Brown 2. Blue	300V, 4A	22	3"	5000113-26	5000113-27
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	3"	5000114-26	5000114-27
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	3"	5000115-26	5000115-27
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	3"	5000116-26	5000116-27

## MICRO-MINI DUAL KEY MALE RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL






POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT	1/2"-NPT
2		1. Brown 2. Blue	300V, 4A	22	3"	5000113-1	5000113-14
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	3"	5000114-1	5000114-14
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	3"	5000115-1	5000115-14
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	3"	5000116-1	5000116-14
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	3"	5000127-1	5000127-14

Note: Special lead lengths available upon request — consult factory.

## MICRO-MINI DUAL KEY FEMALE RECEPTACLE WITH *NYLON* RECEPTACLE SHELL





POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT
2		1. Brown 2. Blue	300V, 4A	22	3"	5000113-26N
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	3"	5000114-26N
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	3"	5000115-26N
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	3"	5000116-26N

## MICRO-MINI DUAL KEY MALE RECEPTACLE WITH *NYLON* RECEPTACLE SHELL






POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT
2		1. Brown 2. Blue	300V, 4A	22	3"	5000113-1N
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	3"	5000114-1N
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	3"	5000115-1N
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	3"	5000116-1N
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	3"	5000127-1N

Note: Special lead lengths available upon request — consult factory.

## MICRO-MINI DUAL KEY FEMALE RECEPTACLE WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT	1/2"-NPT
2		1. Brown 2. Blue	300V, 4A	22	3"	5000113-26X	5000113-27X
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	3"	5000114-26X	5000114-27X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	3"	5000115-26X	5000115-27X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	3"	5000116-26X	5000116-27X

## MICRO-MINI DUAL KEY MALE RECEPTACLE WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT	1/2"-NPT
2		1. Brown 2. Blue	300V, 4A	22	3"	5000113-1X	5000113-14X
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	3"	5000114-1X	5000114-14X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	3"	5000115-1X	5000115-14X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	3"	5000116-1X	5000116-14X
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	3"	5000127-1X	5000127-14X

Note: Special lead lengths available upon request — consult factory.



# SPECIFICATIONS MICRO-MINI DUAL KEY AC RECEPTACLES (2-5 POLE)

- Male and Female Receptacles
- 18 AWG Standard Color Code
- 300V 105°C
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20° to +105°C

### Material Data

Insert:

Black, Nylon 6/6

Pigtail Leads:

AWM/MTW UL style 1430 or 1569

Contacts:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Receptacle Shell:

Machined Aluminum with anodize finish and clear sealant

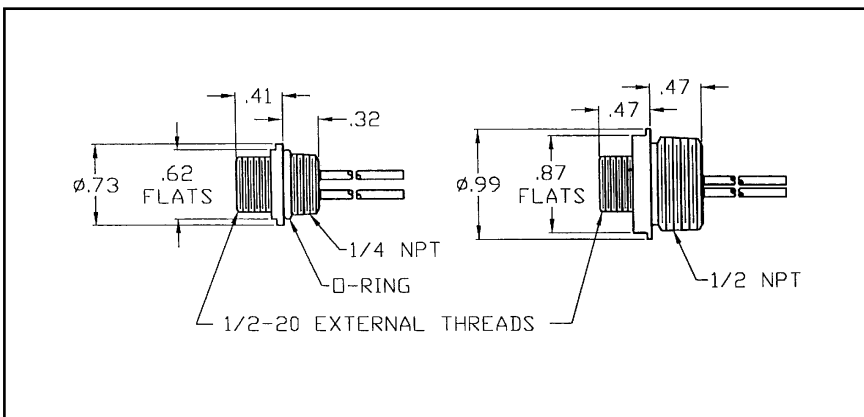
Nylon 6/6 weather stabilized (except 1/2" — NPT design)

303 Stainless Steel





Potting Compound:

Black rigid epoxy





## DIMENSIONS



## MICRO-MINI DUAL KEY FEMALE RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL





POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT	1/2"-NPT
2		1. Brown 2. Blue	300V, 5A	18	3"	5000113-74	5000113-4057
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	3"	5000114-4129	5000114-4130
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	3"	5000115-4084	5000115-4085
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	3"	5000116-4090	5000116-4091

## MICRO-MINI DUAL KEY MALE RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL





POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT	1/2"-NPT
2		1. Brown 2. Blue	300V, 5A	18	3"	5000113-4058	5000113-4059
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	3"	5000114-4131	5000114-4132
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	3"	5000115-4086	5000115-4087
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	3"	5000116-4092	5000116-4093

Note: Special lead lengths available upon request — consult factory.

## MICRO-MINI DUAL KEY FEMALE RECEPTACLE WITH *NYLON* RECEPTACLE SHELL





POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT
2		1. Brown 2. Blue	300V, 5A	18	3"	5000113-74N
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	3"	5000114-4129N
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	3"	5000115-4084N
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	3"	5000116-4090N

## MICRO-MINI DUAL KEY MALE RECEPTACLE WITH *NYLON* RECEPTACLE SHELL





POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT
2		1. Brown 2. Blue	300V, 5A	18	3"	5000113-4058N
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	3"	5000114-4131N
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	3"	5000115-4086N
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	3"	5000116-4092N

Note: Special lead lengths available upon request — consult factory.

## MICRO-MINI DUAL KEY FEMALE RECEPTACLE WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT	1/2"-NPT
2		1. Brown 2. Blue	300V, 5A	18	3"	5000113-74X	5000113-4057X
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	3"	5000114-4129X	5000114-4130X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	3"	5000115-4084X	5000115-4085X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	3"	5000116-4090X	5000116-4091X

## MICRO-MINI DUAL KEY MALE RECEPTACLE WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT	1/2"-NPT
2		1. Brown 2. Blue	300V, 5A	18	3"	5000113-4058X	5000113-4059X
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	3"	5000114-4131X	5000114-4132X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	3"	5000115-4086X	5000115-4087X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	3"	5000116-4092X	5000116-4093X

Note: Special lead lengths available upon request — consult factory.

# SPECIFICATIONS MICRO-MINI DUAL KEY FEMALE SPECIAL RECEPTACLES (3-5 POLE)

- 18 AWG Standard Color Code
- 300V 105°C
- Anodized Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E169897  
File #LR13963

### Electrical Data

Contact Resistance:  
Current Rating:

≤ 5mΩ  
See chart with part  
number detail

Voltage Rating:  
Dielectric Withstand Voltage:

300 VAC  
1600 VAC

### Environmental Data

Protection:  
Temperature Range:

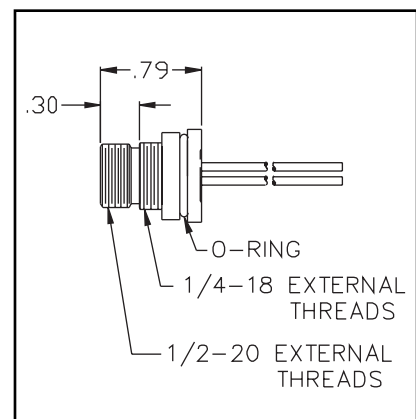
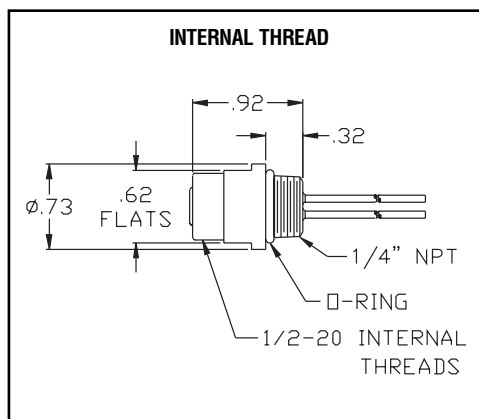
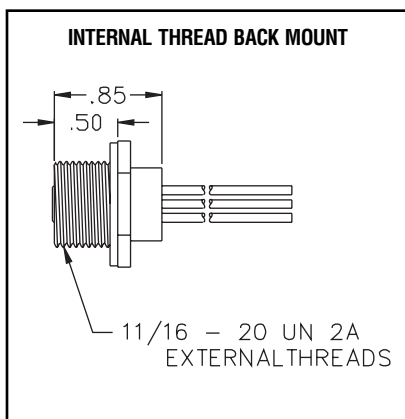
NEMA 1, 3, 4, 6P and 13; IEC IP 68  
-20°C to +105°C

### Material Data

Insert:  
Pigtail Leads:  
Contacts:  
Contact Plating:  
Lock Nut:  
Receptacle Shell:  
  
Potting Compound:




Black, Nylon 6/6  
AWM/MTW UL style 1430 or 1569  
Machined Brass  
30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
Steel  
Machined Aluminum with clear or black anodize finish  
and clear sealant  
Black rigid epoxy

## DIMENSIONS











## MICRO-MINI DUAL KEY FEMALE BACK MOUNTED INTERNAL THREAD RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	PIGTAIL LENGTH	RECEPTACLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	12"	5000114-274
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	12"	5000115-274
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	12"	5000116-274

## MICRO-MINI DUAL KEY FEMALE INTERNAL THREAD RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	PIGTAIL LENGTH	RECEPTACLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	12"	5000114-275
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	12"	5000115-275
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	12"	5000116-275

## MICRO-MINI DUAL KEY FEMALE BACK MOUNTED THREAD RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	PIGTAIL LENGTH	RECEPTACLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	1 meter	5000114-312
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	1 meter	5000115-312
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	1 meter	5000116-312

Note: Special lead lengths available upon request — consult factory.

# SPECIFICATIONS MICRO-MINI DUAL KEY FIELD ATTACHABLE (2-5 POLE)

- Female, Male and Male-In-Line Versions
- Crimp Style Contact Design
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstanding Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3; IEC IP 63

Temperature Range:

-20°C to +90°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Black, nylon

Insert:

Black, PUR

Contact:

Machined Brass

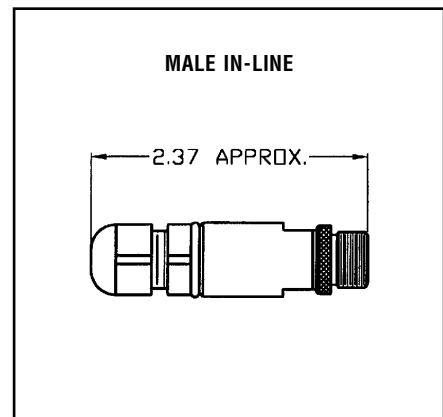
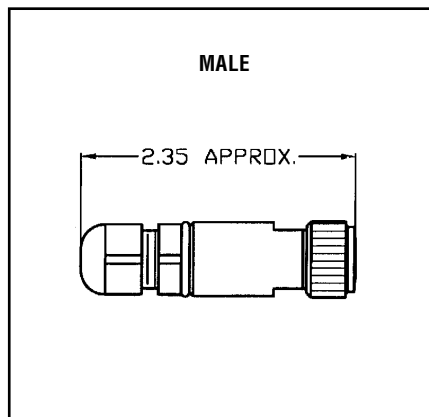
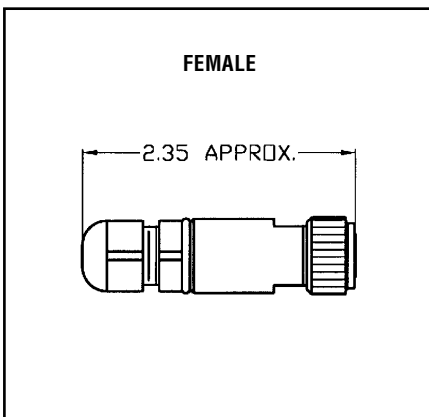
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel





Coupling Nut:

Diecast Zamak 5 with black epoxy coat or black anodize finish





## DIMENSIONS



## MICRO-MINI DUAL KEY FEMALE FIELD ATTACHABLE

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	FEMALE
2		1. Brown 2. Blue	300V, 4A	22	5000113-91
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	5000114-91
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	5000115-91
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	5000116-91

## MICRO-MINI DUAL KEY MALE FIELD ATTACHABLE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	MALE	MALE-IN-LINE
2		1. Brown 2. Blue	300V, 4A	22	5000113-92	5000113-93
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	5000114-92	5000114-93
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	5000115-92	5000115-93
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	5000116-92	5000116-93

# SPECIFICATIONS MICRO-MINI DC DIN PLUGS (3-5 POLE)

- Female and Male-In-Line Plug
- 22 AWG
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, AWM, UL style 2661, PVC jacket

Contacts:

Machined Brass

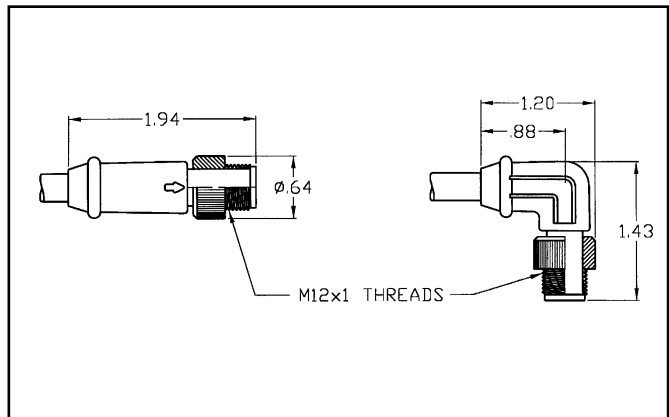
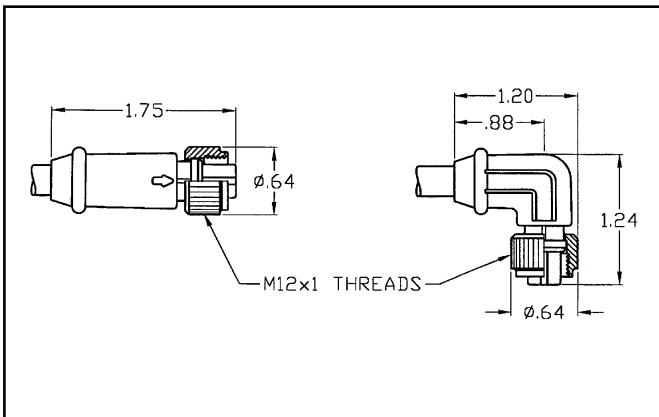
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel




Coupling Nut:

Diecast Zamak 5 with black epoxy coat




## DIMENSIONS



## MICRO-MINI DC DIN FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 4A	22	1	5000117-2	5000117-7
		2. Not Used			2	5000117-3	5000117-8
		3. Blue			3	5000117-4	5000117-9
		4. Black			4	5000117-5	5000117-10
		5. Not Used			5	5000117-6	5000117-11
4		1. Brown	300V, 4A	22	1	5000118-2	5000118-7
		2. White			2	5000118-3	5000118-8
		3. Blue			3	5000118-4	5000118-9
		4. Black			4	5000118-5	5000118-10
		5. Not Used			5	5000118-6	5000118-11
5		1. Brown	300V, 4A	22	1	5000129-2	5000129-7
		2. White			2	5000129-3	5000129-8
		3. Blue			3	5000129-4	5000129-9
		4. Black			4	5000129-5	5000129-10
		5. Gray			5	5000129-6	5000129-11

## MICRO-MINI DC DIN MALE-IN-LINE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 4A	22	1	5000117-13	5000117-18
		2. Not Used			2	5000117-14	5000117-19
		3. Blue			3	5000117-15	5000117-20
		4. Black			4	5000117-16	5000117-21
		5. Not Used			5	5000117-17	5000117-22
4		1. Brown	300V, 4A	22	1	5000118-13	5000118-18
		2. White			2	5000118-14	5000118-19
		3. Blue			3	5000118-15	5000118-20
		4. Black			4	5000118-16	5000118-21
		5. Not Used			5	5000118-17	5000118-22
5		1. Brown	300V, 4A	22	1	5000129-13	5000129-18
		2. White			2	5000129-14	5000129-19
		3. Blue			3	5000129-15	5000129-20
		4. Black			4	5000129-16	5000129-21
		5. Gray			5	5000129-17	5000129-22

Note: Special lengths available upon request — consult factory.



# SPECIFICATIONS MICRO-MINI DC DIN FEMALE PLUGS (3-5 POLE)

- Female Plug
- 22 AWG
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Nylon Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, AWM, UL style 2661, PVC jacket

Contacts:

Machined Brass

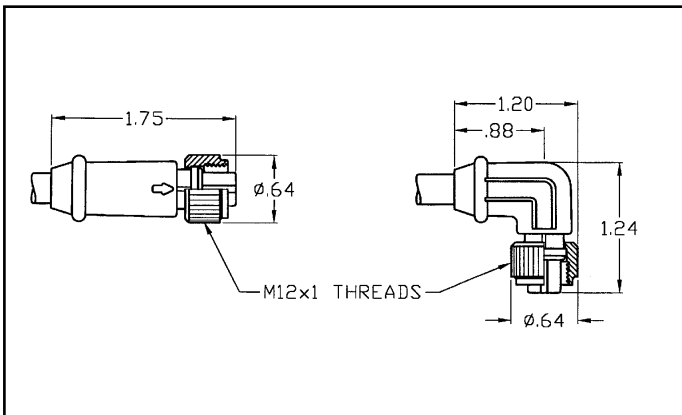
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel




Coupling Nut:

Nylon 6/6 weather stabilized

## DIMENSIONS



# MICRO-MINI DC DIN FEMALE PLUG WITH *NYLON* COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 4A	22	1	5000117-2N	5000117-7N
		2. Not Used			2	5000117-3N	5000117-8N
		3. Blue			3	5000117-4N	5000117-9N
		4. Black			4	5000117-5N	5000117-10N
		5. Not Used			5	5000117-6N	5000117-11N
4		1. Brown	300V, 4A	22	1	5000118-2N	5000118-7N
		2. White			2	5000118-3N	5000118-8N
		3. Blue			3	5000118-4N	5000118-9N
		4. Black			4	5000118-5N	5000118-10N
		5. Not Used			5	5000118-6N	5000118-11N
5		1. Brown	300V, 4A	22	1	5000129-2N	5000129-7N
		2. White			2	5000129-3N	5000129-8N
		3. Blue			3	5000129-4N	5000129-9N
		4. Black			4	5000129-5N	5000129-10N
		5. Gray			5	5000129-6N	5000129-11N

Note: Special lengths available upon request — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN PLUGS (3-5 POLE)

- Female and Male-In-Line Plug
- 22 AWG
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Stainless Steel Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, AWM, UL style 2661, PVC jacket

Contacts:

Machined Brass

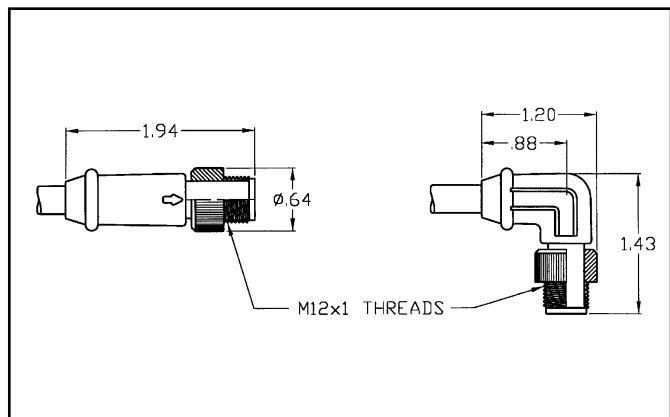
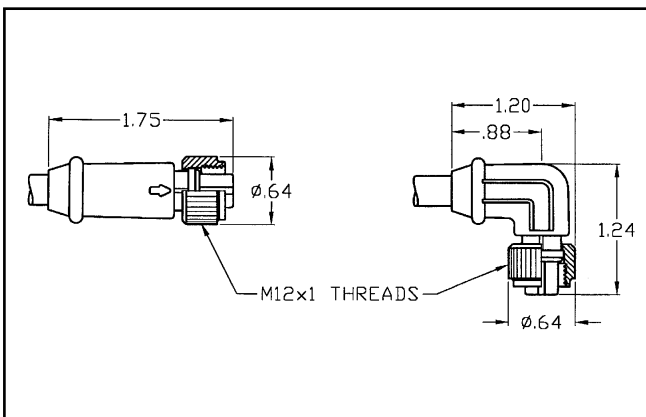
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel




Coupling Nut:

303 Stainless Steel




## DIMENSIONS



## MICRO-MINI DC DIN FEMALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 4A	22	1	5000117-2X	5000117-7X
		2. Not Used			2	5000117-3X	5000117-8X
		3. Blue			3	5000117-4X	5000117-9X
		4. Black			4	5000117-5X	5000117-10X
		5. Not Used			5	5000117-6X	5000117-11X
4		1. Brown	300V, 4A	22	1	5000118-2X	5000118-7X
		2. White			2	5000118-3X	5000118-8X
		3. Blue			3	5000118-4X	5000118-9X
		4. Black			4	5000118-5X	5000118-10X
		5. Not Used			5	5000118-6X	5000118-11X
5		1. Brown	300V, 4A	22	1	5000129-2X	5000129-7X
		2. White			2	5000129-3X	5000129-8X
		3. Blue			3	5000129-4X	5000129-9X
		4. Black			4	5000129-5X	5000129-10X
		5. Gray			5	5000129-6X	5000129-11X

## MICRO-MINI DC DIN MALE-IN-LINE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 4A	22	1	5000117-13X	5000117-18X
		2. Not Used			2	5000117-14X	5000117-19X
		3. Blue			3	5000117-15X	5000117-20X
		4. Black			4	5000117-16X	5000117-21X
		5. Not Used			5	5000117-17X	5000117-22X
4		1. Brown	300V, 4A	22	1	5000118-13X	5000118-18X
		2. White			2	5000118-14X	5000118-19X
		3. Blue			3	5000118-15X	5000118-20X
		4. Black			4	5000118-16X	5000118-21X
		5. Not Used			5	5000118-17X	5000118-22X
5		1. Brown	300V, 4A	22	1	5000129-13X	5000129-18X
		2. White			2	5000129-14X	5000129-19X
		3. Blue			3	5000129-15X	5000129-20X
		4. Black			4	5000129-16X	5000129-21X
		5. Gray			5	5000129-17X	5000129-22X

Note: Special lengths available upon request — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN PLUGS (3-5 POLE)

- Female and Male-In-Line Plug
- 18 AWG
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, AWM, UL style 2661, PVC jacket

Contacts:

Machined Brass

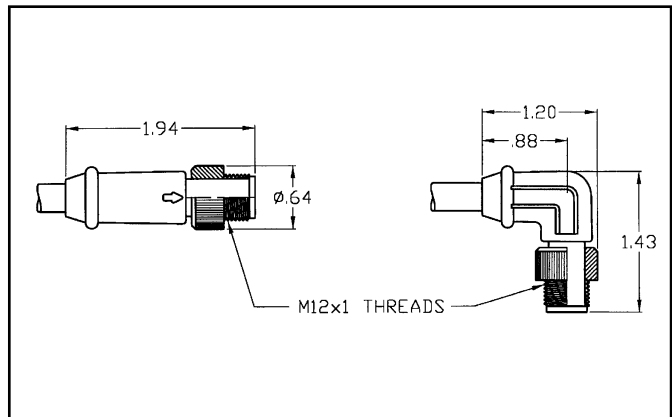
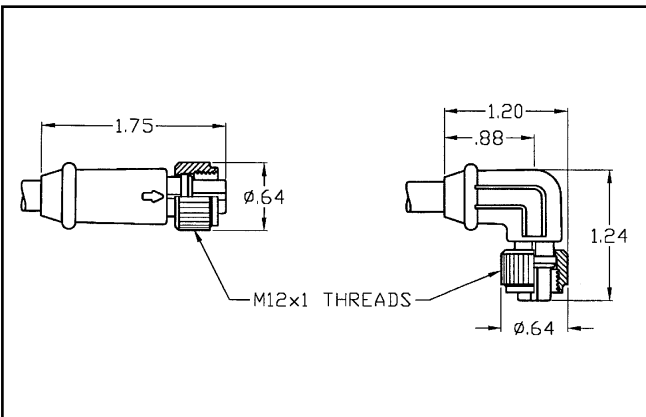
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:




Diecast Zamak 5 with black epoxy coat

## DIMENSIONS








## MICRO-MINI DC DIN FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 5A	18	1	5000117-4015	5000117-4018
		2. Not Used			2	5000117-4016	5000117-4019
		3. Blue			3	5000117-4106	5000117-4107
		4. Black			4	5000117-4017	5000117-4020
		5. Not Used			5	5000117-4047	5000117-4048
4		1. Brown	300V, 5A	18	1	5000118-4145	5000118-4146
		2. White			2	5000118-4020	5000118-4021
		3. Blue			3	5000118-4147	5000118-4148
		4. Black			4	5000118-4009	5000118-4010
		5. Not Used			5	5000118-4091	5000118-4092
5		1. Brown	300V, 5A	18	1	5000129-241	5000129-246
		2. White			2	5000129-242	5000129-247
		3. Blue			3	5000129-243	5000129-248
		4. Black			4	5000129-244	5000129-249
		5. Gray			5	5000129-245	5000129-250

## MICRO-MINI DC DIN MALE-IN-LINE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 5A	18	1	5000117-4108	5000117-4109
		2. Not Used			2	5000117-4110	5000117-4111
		3. Blue			3	5000117-4112	5000117-4113
		4. Black			4	5000117-4114	5000117-4115
		5. Not Used			5	5000117-4116	5000117-4117
4		1. Brown	300V, 5A	18	1	5000118-4149	5000118-4150
		2. White			2	5000118-4151	5000118-4152
		3. Blue			3	5000118-4153	5000118-4154
		4. Black			4	5000118-4155	5000118-4156
		5. Not Used			5	5000118-4157	5000118-4158
5		1. Brown	300V, 5A	18	1	5000129-261	5000129-266
		2. White			2	5000129-262	5000129-267
		3. Blue			3	5000129-263	5000129-268
		4. Black			4	5000129-264	5000129-269
		5. Gray			5	5000129-265	5000129-270

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN PLUGS WITH BRAIDED CABLE (3-4 POLE)

- Female and Male-In-Line Plug
- 22 AWG
- 300V 105°C AWM Braided Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, AWM, UL style 2661, with 85% coverage braided shield

Contacts:

Machined Brass

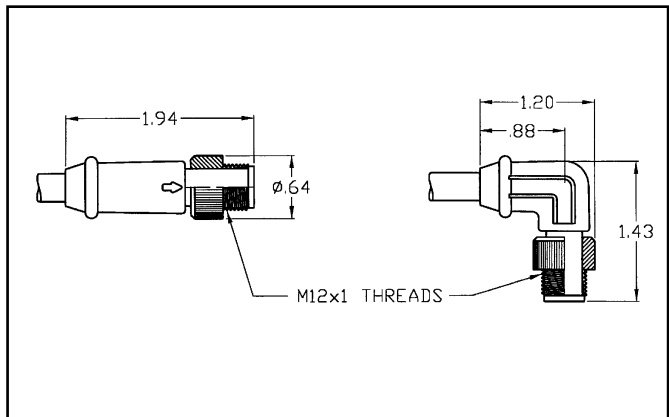
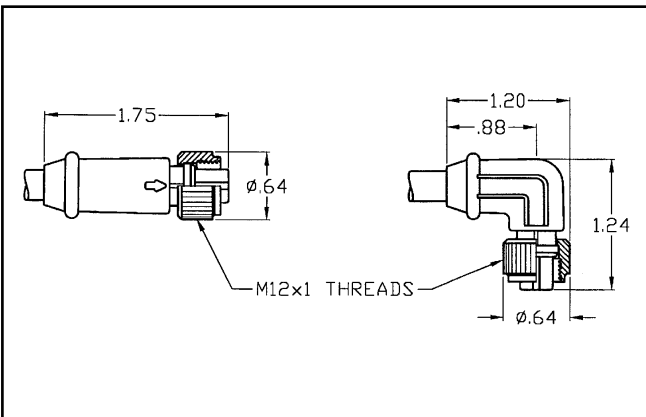
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel



Coupling Nut:

Diecast Zamak 5 with black epoxy coat



## DIMENSIONS



**MICRO-MINI DC DIN FEMALE WITH BRAIDED CABLE**  
 WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 4A	22	1	5000117-2B	5000117-7B
		2. Not Used			2	5000117-3B	5000117-8B
		3. Blue			3	5000117-4B	5000117-9B
		4. Black			4	5000117-5B	5000117-10B
		5. Not Used			5	5000117-6B	5000117-11B
4		1. Brown	300V, 4A	22	1	5000118-2B	5000118-7B
		2. White			2	5000118-3B	5000118-8B
		3. Blue			3	5000118-4B	5000118-9B
		4. Black			4	5000118-5B	5000118-10B
		5. Not Used			5	5000118-6B	5000118-11B

**MICRO-MINI DC DIN MALE-IN-LINE WITH BRAIDED CABLE**  
 WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 4A	22	1	5000117-13B	5000117-18B
		2. Not Used			2	5000117-14B	5000117-19B
		3. Blue			3	5000117-15B	5000117-20B
		4. Black			4	5000117-16B	5000117-21B
		5. Not Used			5	5000117-17B	5000117-22B
4		1. Brown	300V, 4A	22	1	5000118-13B	5000118-18B
		2. White			2	5000118-14B	5000118-19B
		3. Blue			3	5000118-15B	5000118-20B
		4. Black			4	5000118-16B	5000118-21B
		5. Not Used			5	5000118-17B	5000118-22B

Note: Special lengths available upon request — consult factory.  
 Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN MALE-IN-LINE TO FEMALE EXTENSIONS (3-5 POLE)

- 22 AWG and 18 AWG (except 5 pole)
- 300V 105°C AWM Cable
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, AWM, UL style 2661, PVC jacket

Contacts:

Machined Brass

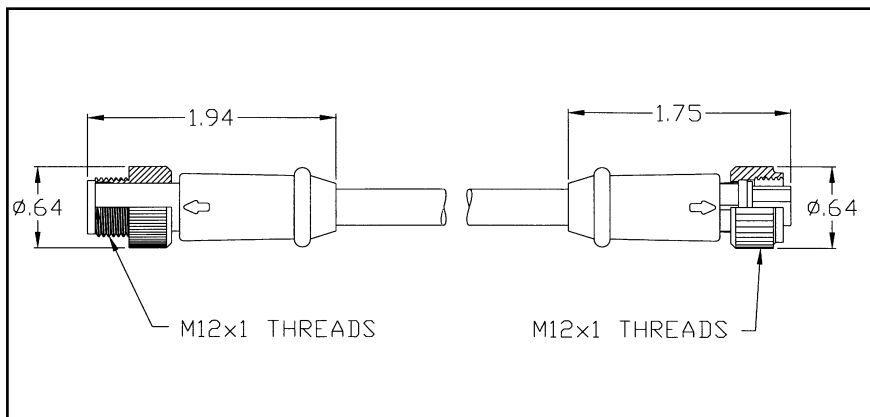
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:




Diecast Zamak 5 with black epoxy coat

## DIMENSIONS





## MICRO-MINI DC DIN MALE-IN-LINE TO FEMALE EXTENSIONS

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	MALE-IN-LINE TO FEMALE EXTENSIONS
3		1. Brown	300V, 4A	22	1	5000117-4010
		2. Not Used			2	5000117-70
		3. Blue			3	5000117-4058
		4. Black			4	5000117-71
		5. Not Used			5	5000117-72
4		1. Brown	300V, 4A	22	1	5000118-4025
		2. White			2	5000118-70
		3. Blue			3	5000118-4111
		4. Black			4	5000118-71
		5. Not Used			5	5000118-72
5		1. Brown	300V, 4A	22	1	5000129-118
		2. White			2	5000129-70
		3. Blue			3	5000129-119
		4. Black			4	5000129-71
		5. Gray			5	5000129-72

## MICRO-MINI DC DIN MALE-IN-LINE TO FEMALE EXTENSIONS

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	MALE-IN-LINE TO FEMALE EXTENSIONS
3		1. Brown	300V, 5A	18	1	5000117-4118
		2. Not Used			2	5000117-4119
		3. Blue			3	5000117-4120
		4. Black			4	5000117-4121
		5. Not Used			5	5000117-4122
4		1. Brown	300V, 5A	18	1	5000118-4078
		2. White			2	5000118-4015
		3. Blue			3	5000118-4080
		4. Black			4	5000118-4011
		5. Not Used			5	5000118-4076

Note: Special lengths available upon request — consult factory.  
 Right angle male and female plugs available — consult factory.  
 Stainless steel coupling nut available — consult factory.



# SPECIFICATIONS MICRO-MINI DC DIN ROBOTIC PLUGS (3-4 POLE)

- Female and Male-In-Line Plug
- 18 AWG High-Flex Stranding
- 300V 90°C Robotic Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +90°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, oil resistant PVC jacket

Contacts:

Machined Brass

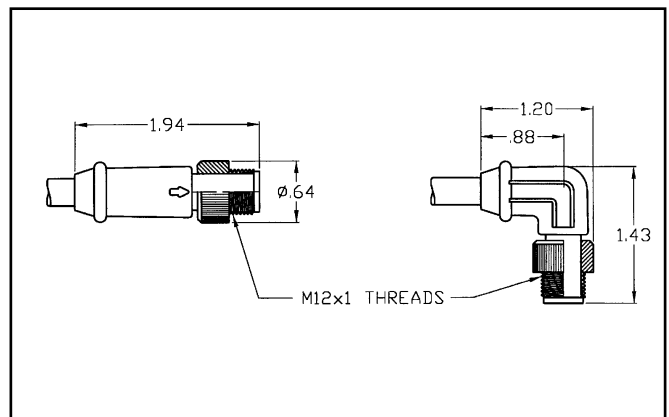
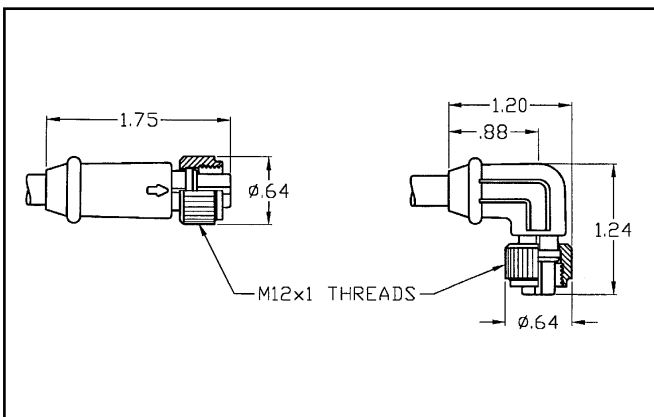
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel



Coupling Nut:

Diecast Zamak 5 with black epoxy coat

## DIMENSIONS





# MICRO-MINI DC DIN ROBOTIC FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Black #1	300V, 5A	18	1	5000117-2R	5000117-7R
		2. Not Used			2	5000117-3R	5000117-8R
		3. Black #2			3	5000117-4R	5000117-9R
		4. Green/Yellow			4	5000117-5R	5000117-10R
		5. Not Used			5	5000117-6R	5000117-11R
4		1. Black #1	300V, 5A	18	1	5000118-2R	5000118-7R
		2. Black #2			2	5000118-3R	5000118-8R
		3. Black #3			3	5000118-4R	5000118-9R
		4. Green/Yellow			4	5000118-5R	5000118-10R
		5. Not Used			5	5000118-6R	5000118-11R

# MICRO-MINI DC DIN ROBOTIC MALE-IN-LINE PLUG

WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Black #1	300V, 5A	18	1	5000117-13R	5000117-18R
		2. Not Used			2	5000117-14R	5000117-19R
		3. Black #2			3	5000117-15R	5000117-20R
		4. Green/Yellow			4	5000117-16R	5000117-21R
		5. Not Used			5	5000117-17R	5000117-22R
4		1. Black #1	300V, 5A	18	1	5000118-13R	5000118-18R
		2. Black #2			2	5000118-14R	5000118-19R
		3. Black #3			3	5000118-15R	5000118-20R
		4. Green/Yellow			4	5000118-16R	5000118-21R
		5. Not Used			5	5000118-17R	5000118-22R

Note: Special lead lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN SJOOW PLUGS (3 AND 4 POLE)

- Female and Male-In-Line Plug
- 18 AWG
- 300V 90°C SJOOW Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-50°C to +90°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, SJOOW

Contacts:

Machined Brass

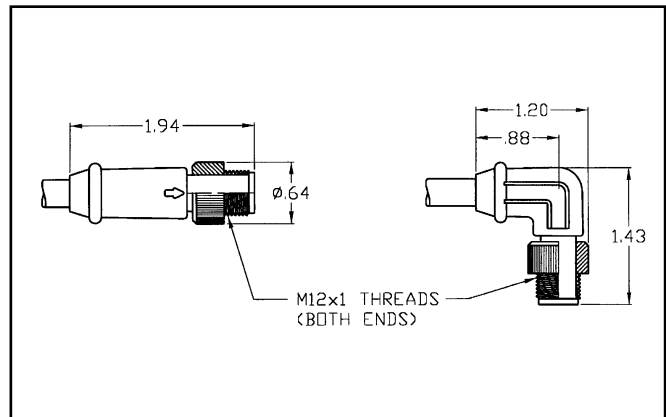
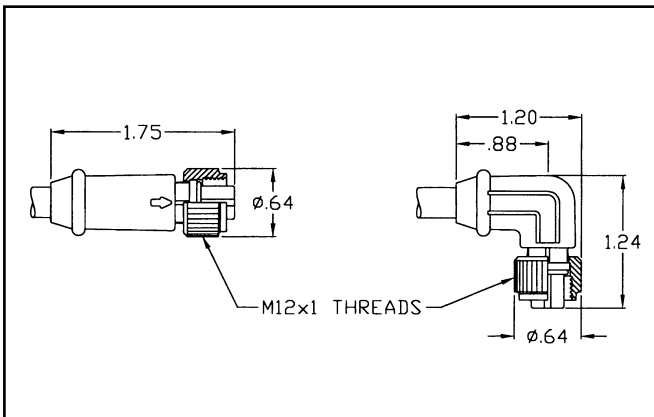
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:



Diecast Zamak 5 with black epoxy coat

## DIMENSIONS





# MICRO-MINI DC DIN SJOOW FEMALE PLUG

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 5A	18	1	5000117-2SE	5000117-7SE
		2. Not Used			2	5000117-3SE	5000117-8SE
		3. Blue			3	5000117-4SE	5000117-9SE
		4. Black			4	5000117-5SE	5000117-10SE
		5. Not Used			5	5000117-6SE	5000117-11SE
4		1. Brown	300V, 5A	18	1	5000118-2SE	5000118-7SE
		2. White			2	5000118-3SE	5000118-8SE
		3. Blue			3	5000118-4SE	5000118-9SE
		4. Black			4	5000118-5SE	5000118-10SE
		5. Not Used			5	5000118-6SE	5000118-11SE

# MICRO-MINI DC DIN SJOOW MALE-IN-LINE PLUG

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 5A	18	1	5000117-13SE	5000117-18SE
		2. Not Used			2	5000117-14SE	5000117-19SE
		3. Blue			3	5000117-15SE	5000117-20SE
		4. Black			4	5000117-16SE	5000117-21SE
		5. Not Used			5	5000117-17SE	5000117-22SE
4		1. Brown	300V, 5A	18	1	5000118-13SE	5000118-18SE
		2. White			2	5000118-14SE	5000118-19SE
		3. Blue			3	5000118-15SE	5000118-20SE
		4. Black			4	5000118-16SE	5000118-21SE
		5. Not Used			5	5000118-17SE	5000118-22SE

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN SJOOW MALE-IN-LINE TO FEMALE EXTENSIONS (3 AND 4 POLE)

- 18 AWG
- 300V 90°C SJOOW Cable
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-50°C to +90°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, SJOOW jacket

Contacts:

Machined Brass

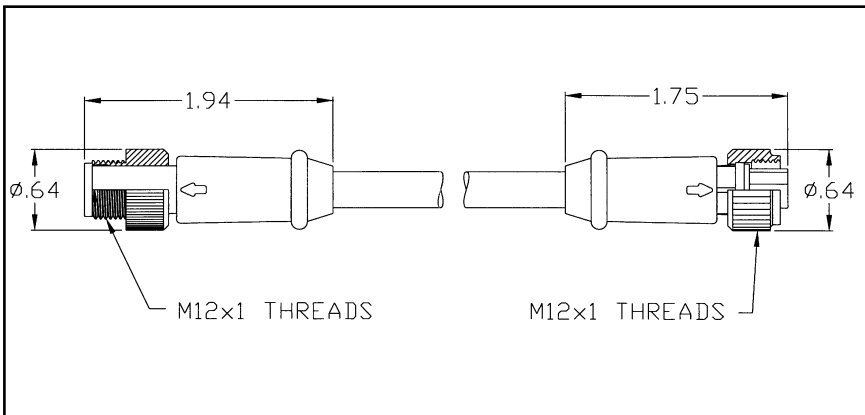
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Diecast Zamak 5 with black epoxy coat



## DIMENSIONS





# MICRO-MINI DC DIN SJOOW MALE-IN-LINE TO FEMALE EXTENSIONS

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	MALE-IN-LINE TO FEMALE EXTENSIONS
3		1. Brown	300V, 5A	18	1	5000117-4118SE
		2. Not Used			2	5000117-4119SE
		3. Blue			3	5000117-4120SE
		4. Black			4	5000117-4121SE
		5. Not Used			5	5000117-4122SE
4		1. Brown	300V, 5A	18	1	5000118-4078SE
		2. White			2	5000118-4015SE
		3. Blue			3	5000118-4080SE
		4. Black			4	5000118-4011SE
		5. Not Used			5	5000118-90SE

Note: Special lead lengths available upon request — consult factory.  
 Stainless steel coupling nut available — consult factory.  
 Right angle male and female plugs available — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN "PUR" PLUGS (3-4 POLE)

- Female and Male-In-Line Plug
- 22 AWG
- 300V 80°C PUR Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +80°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 85A durometer, oil resistant PUR

Insert:

Yellow, PUR

Cable:

Yellow, PUR jacket

Contacts:

Machined Brass

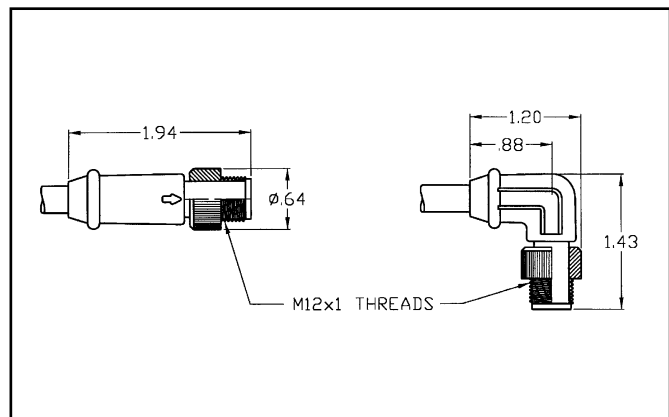
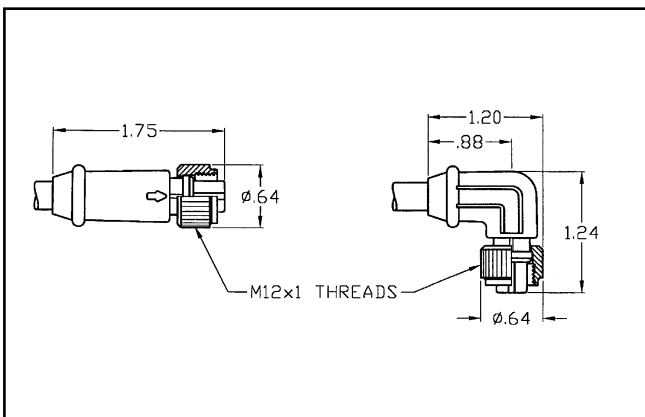
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:



Diecast Zamak 5 with black epoxy coat

## DIMENSIONS





## MICRO-MINI DC DIN “PUR” FEMALE PLUG

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 4A	22	1	5000117-2P	5000117-7P
		2. Not Used			2	5000117-3P	5000117-8P
		3. Blue			3	5000117-4P	5000117-9P
		4. Black			4	5000117-5P	5000117-10P
		5. Not Used			5	5000117-6P	5000117-11P
4		1. Brown	300V, 4A	22	1	5000118-2P	5000118-7P
		2. White			2	5000118-3P	5000118-8P
		3. Blue			3	5000118-4P	5000118-9P
		4. Black			4	5000118-5P	5000118-10P
		5. Not Used			5	5000118-6P	5000118-11P

## MICRO-MINI DC DIN “PUR” MALE-IN-LINE PLUG

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 4A	22	1	5000117-13P	5000117-18P
		2. Not Used			2	5000117-14P	5000117-19P
		3. Blue			3	5000117-15P	5000117-20P
		4. Black			4	5000117-16P	5000117-21P
		5. Not Used			5	5000117-17P	5000117-22P
4		1. Brown	300V, 4A	22	1	5000118-13P	5000118-18P
		2. White			2	5000118-14P	5000118-19P
		3. Blue			3	5000118-15P	5000118-20P
		4. Black			4	5000118-16P	5000118-21P
		5. Not Used			5	5000118-17P	5000118-22P

Note: Special lead lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN "LED" FEMALE PLUG (3 POLE)

- Female Plug Design
- 22 AWG
- 300V 105° AWM Cable
- Right Angle Version
- PNP and NPN Versions
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

10-30 VDC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

### Material Data

Body:

Clear, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, AWM, UL style 2661, PVC jacket

Contacts:

Machined Brass

Contact Plating:

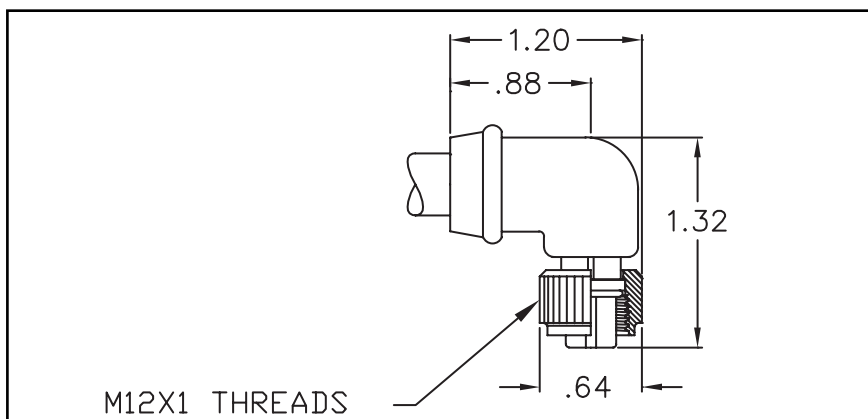
30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:


Diecast Zamak 5 with black epoxy coat

Nylon 6/6 weather stabilized


## DIMENSIONS




## MICRO-MINI DC DIN LED FEMALE PLUG WITH ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	RIGHT ANGLE — PNP	RIGHT ANGLE — NPN
3		1. Brown 2. Not Used 3. Blue 4. Black 5. Not Used	10-30 VDC 3A	22	2 3 4 5	5000117-P8 5000117-P9 5000117-P10 5000117-P11	5000117-N8 5000117-N9 5000117-N10 5000117-N11

## MICRO-MINI DC DIN LED FEMALE PLUG WITH NYLON COUPLING NUT

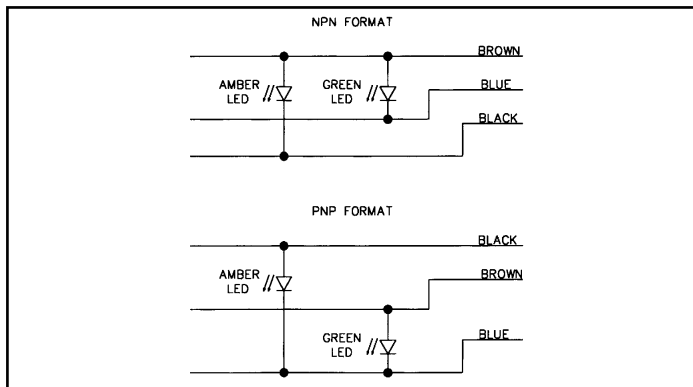
POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	RIGHT ANGLE — PNP	RIGHT ANGLE — NPN
3		1. Brown 2. Not Used 3. Blue 4. Black 5. Not Used	10-30 VDC 3A	22	2 3 4 5	5000117-P8N 5000117-P9N 5000117-P10N 5000117-P11N	5000117-N8N 5000117-N9N 5000117-N10N 5000117-N11N

## MICRO-MINI DC DIN LED FEMALE PLUG WITH BRAIDED CABLE, ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	RIGHT ANGLE — PNP	RIGHT ANGLE — NPN
3		1. Brown 2. Not Used 3. Blue 4. Black 5. Not Used	10-30 VDC 3A	22	2 3 4 5	5000117-P8B 5000117-P9B 5000117-P10B 5000117-P11B	5000117-N8B 5000117-N9B 5000117-N10B 5000117-N11B

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

## WIRING DIAGRAM





# SPECIFICATIONS MICRO-MINI DC DIN Y-SPLITTER (4 POLE)

- 18 and 22 AWG (22 AWG available on 5 pole)
- 300V 105°C AWM Cable
- Standard and Low Profile Versions Available
- 12" Drop Length — Standard
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, oil resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow AWM, UL style 2661, PVC jacket

Contacts:

Machined Brass

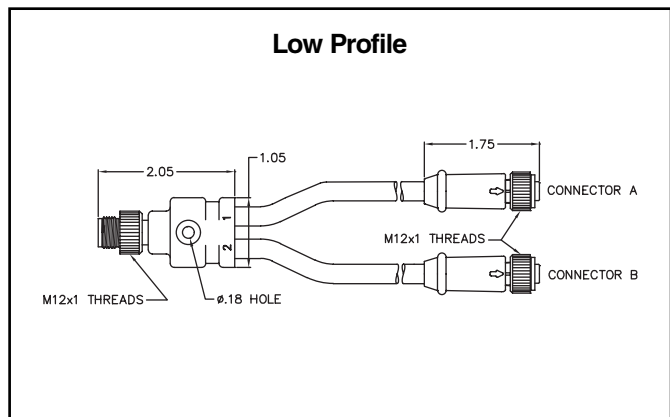
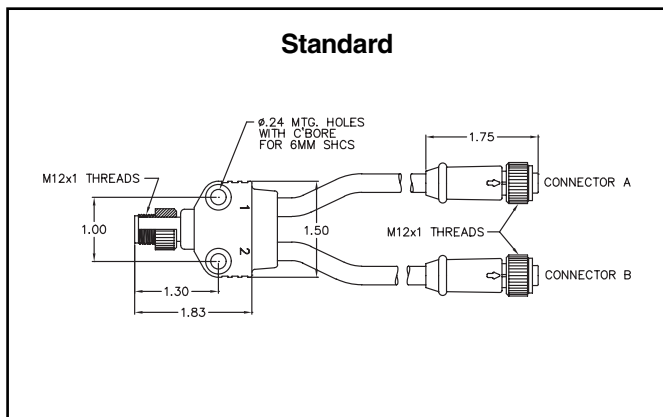
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel


Coupling Nut:

Diecast Zamak 5 with black epoxy coat


## DIMENSIONS



# MICRO-MINI DC DIN Y-SPLITTER

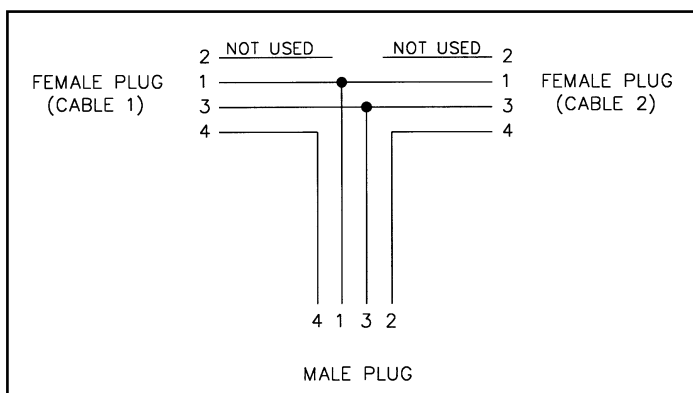
POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STANDARD	LOW PROFILE
4		1. Brown 2. Not Connected 3. Blue 4. Black (1) 4. White (2) 5. Not Used	300V, 4A	22	12"	5000118-197	5000118-317

# MICRO-MINI DC DIN Y-SPLITTER

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STANDARD	LOW PROFILE
4		1. Brown 2. Not Connected 3. Blue 4. Black (1) 4. White (2) 5. Not Used	300V, 5A	18	12"	5000118-198	5000118-318

Note: Special lengths available upon request — consult factory.  
 Stainless steel coupling nut available — consult factory.

# WIRING DIAGRAM



# SPECIFICATIONS MICRO-MINI DC DIN T-SPLITTER (4 POLE)

- 22 AWG Standard Color Code
- 300V 105°C AWM
- Black Epoxy Coated Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow AWM, UL style 2661, PVC jacket

Contacts:

Machined Brass

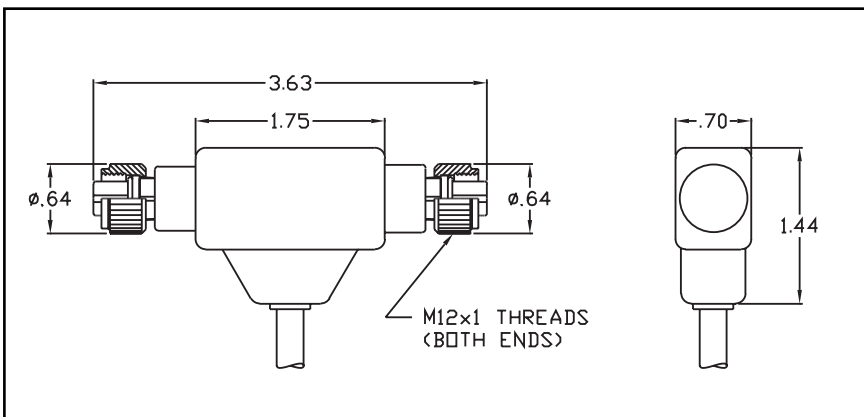
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel


Coupling Nut:

Diecast Zamak 5 with black epoxy coat

## DIMENSIONS

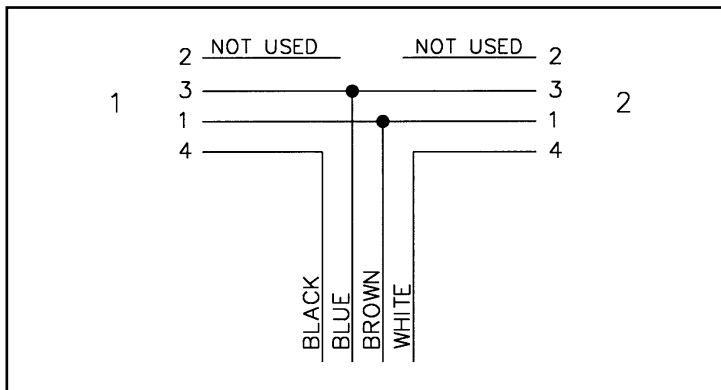


# MICRO-MINI DC DIN T-SPLITTER

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	SPLITTER
4		1. Brown 2. Not Connected 3. Blue 4. Black (1) 4. White (2)	300, 4A	22	1 2 4 5 10	5000118-192 5000118-193 5000118-194 5000118-195 5000118-196

Note: Special lengths available upon request — consult factory.  
 Nylon and stainless steel coupling nuts available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MICRO-MINI DC DIN TAPPING TEE (3-5 POLE)

- 18 AWG and 22 AWG Standard Color Code
- 300V 105°C
- Black Epoxy Coated Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E169897  
File #LR13963

### Electrical Data

Contact Resistance:  
Current Rating:

≤ 5mΩ  
See chart with part  
number detail

Voltage Rating:  
Dielectric Withstand Voltage:

300 VAC  
1600 VAC

### Environmental Data

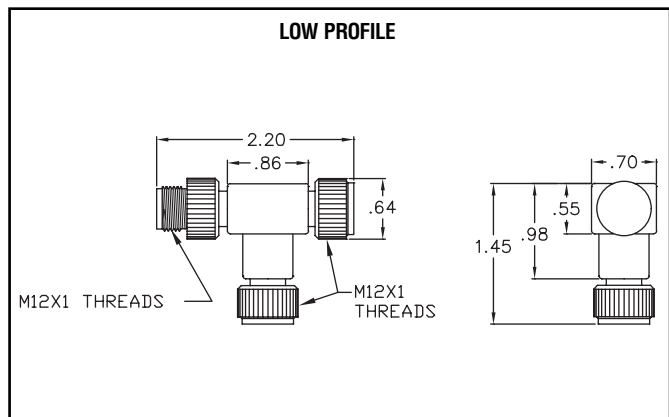
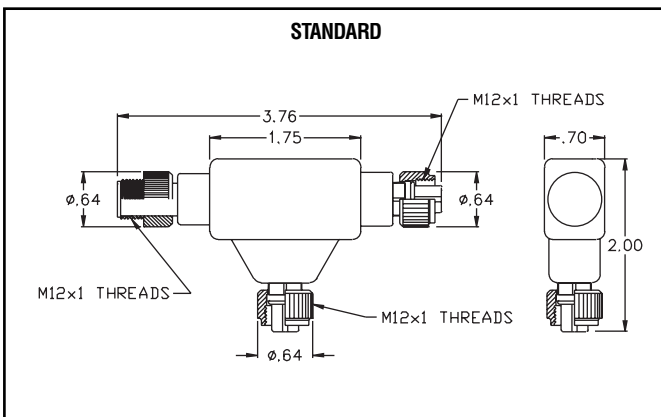
Protection:  
Temperature Range:  
Corrosion Resistance:

NEMA 1, 3, 4, 6P and 13; IEC IP 68  
-20°C to +105°C  
1000 hr. salt spray per MIL-STD-202F

### Material Data




Body: Yellow, 90A durometer, flame resistant PVC  
Insert: Yellow, Polyurethane  
Contacts: Machined Brass  
Contact Plating: 30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
Coupling Nut: Diecast Zamak 5 with black epoxy coat

## DIMENSIONS








# MICRO-MINI DC DIN TAPPING TEE

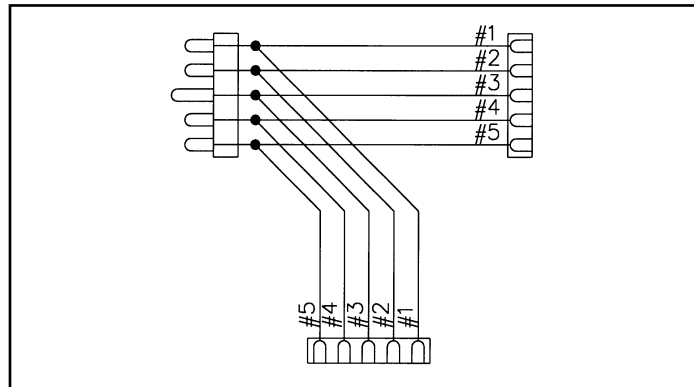
POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	STANDARD
3		1. Brown 2. Not Used 3. Blue 4. Black 5. Not Used	300V, 5A	18	5000117-201
4		1. Brown 2. White 3. Blue 4. Black 5. Not Used	300V, 5A	18	5000118-201
5		1. Brown 2. White 3. Blue 4. Black 5. Gray	300V, 5A	18	5000129-201

# MICRO-MINI DC DIN TAPPING TEE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LOW PROFILE
3		1. Brown 2. Not Used 3. Blue 4. Black 5. Not Used	300V, 4A	22	5000117-258
4		1. Brown 2. White 3. Blue 4. Black 5. Not Used	300V, 4A	22	5000118-258
5		1. Brown 2. White 3. Blue 4. Black 5. Gray	300V, 4A	22	5000129-258

Note: Stainless steel coupling nut available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MICRO-MINI DC DIN MALE RECEPTACLES (3-5 POLE)

- Male Receptacle — External Threads
- 22 AWG and 18 AWG (except 5 pole)
- Machined Aluminum Shell
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Insert:

Yellow, Nylon

Pigtail Leads:

AWM/MTW UL style 1430 or 1569

Contacts:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

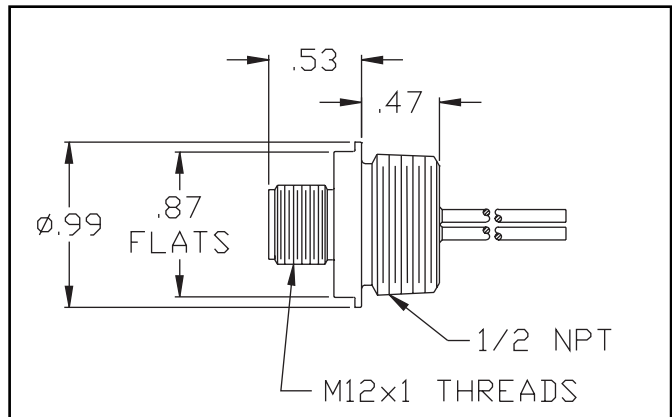
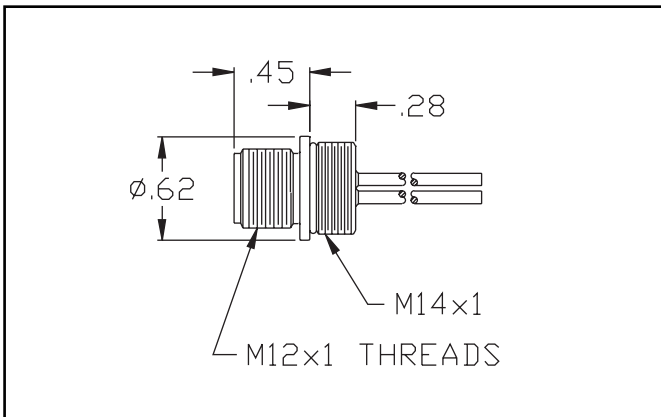
Receptacle Shell:

Machined Aluminum with black anodized finish




Potting Compound:

Black rigid epoxy



## DIMENSIONS



## MICRO-MINI DC DIN MALE RECEPTACLES WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	M14 THREAD	1/2" - 14NPT THREAD
3		1. Brown 2. Not Used 3. Blue 4. Black 5. Not Used	300V, 4A	22	3" 6" 12"	5000117-1 5000117-4123 5000117-4124	5000117-12 5000117-4125 5000117-4105
4		1. Brown 2. White 3. Blue 4. Black 5. Not Used	300V, 4A	22	3" 6" 12"	5000118-1 5000118-4159 5000118-4144	5000118-12 5000118-4160 5000118-4060
5		1. Brown 2. White 3. Blue 4. Black 5. Gray	300V, 4A	22	3" 6" 12"	5000129-1 5000129-95 5000129-96	5000129-12 5000129-97 5000129-84

## MICRO-MINI DC DIN TAPPING TEE WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	M14 THREAD	1/2" - 14NPT THREAD
3		1. Brown 2. Not Used 3. Blue 4. Black 5. Not Used	300V, 5A	18	3" 6" 12"	5000117-4126 5000117-4127 5000117-4128	5000117-4129 5000117-4130 5000117-4131
4		1. Brown 2. White 3. Blue 4. Black 5. Not Used	300V, 5A	18	3" 6" 12"	5000118-233 5000118-234 5000118-235	5000118-165 5000118-236 5000118-103

Note: Special lead lengths available upon request — consult factory.  
Stainless steel receptacle shell available — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN FEMALE RECEPTACLES (3-5 POLE)

- Female Receptacle — Internal Threads
- 22 AWG
- Machined Aluminum Shell
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Insert:

Yellow, nylon

Pigtail Leads:

AWM/MTW UL style 1430 or 1569

Contacts:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

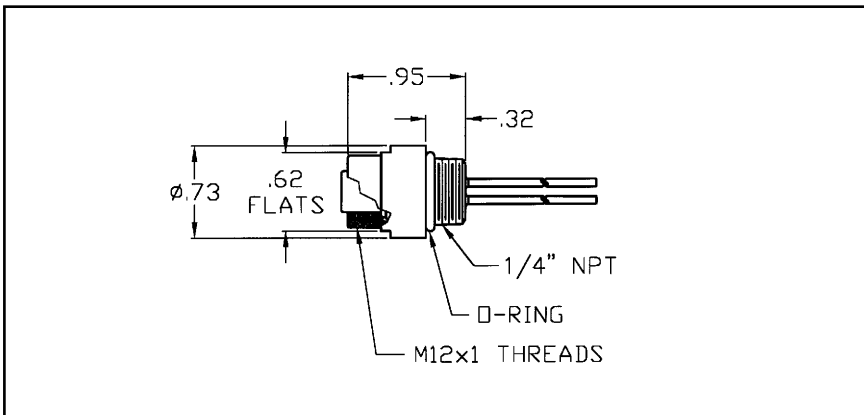
Receptacle Shell:

Machined Aluminum with black anodize finish




Potting Compound:

Black rigid epoxy

## DIMENSIONS



# MICRO-MINI DC DIN FEMALE RECEPTACLES WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4" - 18NPT THREAD
3		1. Brown 2. Not Used 3. Blue 4. Black 5. Not Used	300V, 4A	22	3" 6" 12"	5000117-4132 5000117-63 5000117-4133
4		1. Brown 2. White 3. Blue 4. Black 5. Not Used	300V, 4A	22	3" 6" 12"	5000118-4161 5000118-63 5000118-4085
5		1. Brown 2. White 3. Blue 4. Black 5. Gray	300V, 4A	22	3" 6" 12"	5000129-63 5000129-98 5000129-99

Note: Special lead lengths available upon request — consult factory.  
Stainless steel receptacle shell available — consult factory.



# SPECIFICATIONS MICRO-MINI DC DIN FIELD ATTACHABLE (4-5 POLE)

- PG7 and PG9 Thread (Grommet) Sizes
- Female and Male-In-Line Versions
- Straight and Right Angle Configuration
- Terminal Screw Attachments
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5\text{m}\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3; IEC IP 67

Temperature Range:

-25°C to +90°C

### Material Data

Body:

Black, Nylon

Insert:

Black, Nylon

Contact:

Machined Brass

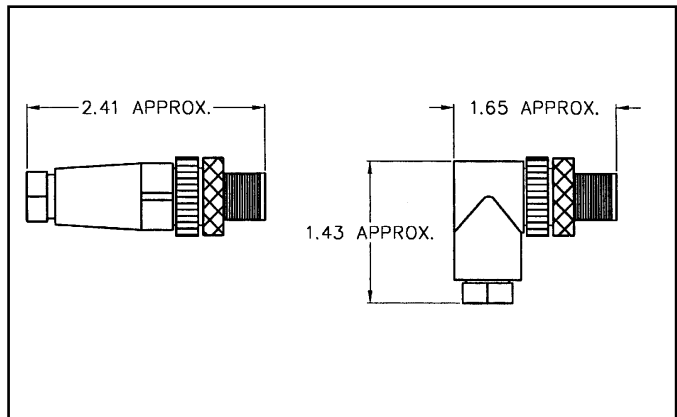
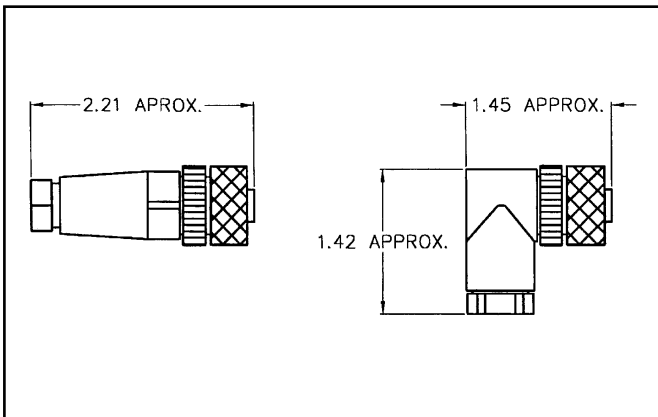
Contact Plating:

Silver



Coupling Nut:

Zinc diecast with nickel plating



## DIMENSIONS



## MICRO-MINI DC DIN FEMALE FIELD ATTACHABLE

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	CABLE DIA. RANGE	STRAIGHT	RIGHT ANGLE
4		1. Brown 2. White 3. Blue 4. Black 5. Not Used	300V, 4A	4-6 mm (PG 7) 6-8 mm (PG 9)	5000118-91 5000118-287	5000118-216 5000118-288
5		1. Brown 2. White 3. Blue 4. Black 5. Gray	300V, 3A	4-6 mm (PG 7) 6-8 mm (PG 9)	5000129-91 5000129-287	5000129-100 5000129-288

## MICRO-MINI DC DIN MALE-IN-LINE FIELD ATTACHABLE

POLES	FACE VIEW MALE	COLOR CODE	RATING	CABLE DIA. RANGE	STRAIGHT	RIGHT ANGLE
4		1. Brown 2. White 3. Blue 4. Black 5. Not Used	300V, 4A	4-6 mm (PG 7) 6-8 mm (PG 9)	5000118-93 5000118-292	5000118-217 5000118-293
5		1. Brown 2. White 3. Blue 4. Black 5. Gray	300V, 3A	4-6 mm (PG 7) 6-8 mm (PG 9)	5000129-93 5000129-292	5000129-101 5000129-293

# SPECIFICATIONS MICRO-MINI AC DIN STANDARD FEMALE PLUGS (4 POLE 3 WIRE)

- 22 AWG Standard Color Code
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

CSA Certification:

File #E169897

File #LR13963

### Electrical Data

Contact Resistance:

Current Rating:

$\leq 5m\Omega$

See chart with part number detail

Voltage Rating:

Dielectric Withstand Voltage:

300 VAC/300 VDC

1600 VAC

### Environmental Data

Protection:

Temperature Range:

Corrosion Resistance:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

-20°C to +105°C

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Insert:

Cable:

Contacts:

Contact Plating:

Coupling Nut:

Yellow, 90A durometer, flame resistant PVC

Gray, Polyurethane

Yellow, AWM UL Style 2661

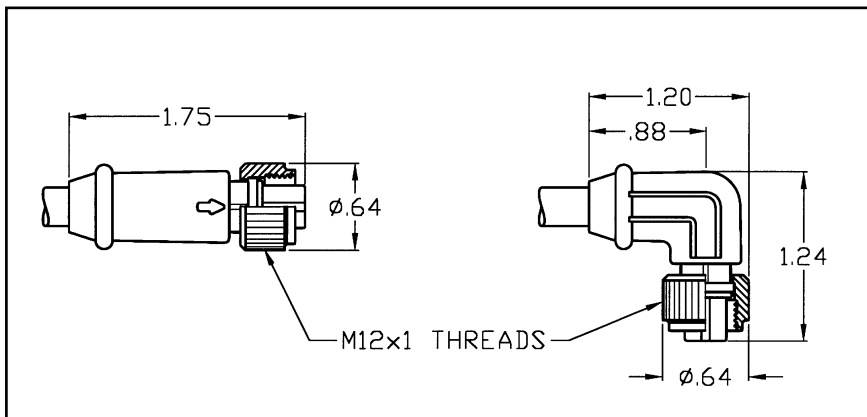
Machined Brass

Gold over Nickel


Diecast Zamak 5 with black epoxy coat

Nylon 6/6 weather stabilized


## DIMENSIONS



**MICRO-MINI AC DIN STANDARD FEMALE PLUG** WITH **ZINC DIECAST** COUPLING NUT

<b>POLES</b>	<b>FACE VIEW FEMALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>CABLE LENGTH (METERS)</b>	<b>STRAIGHT</b>	<b>RIGHT ANGLE</b>
4		1. Black	300V, 3A	22	1	5000126-2	5000126-7
		2. Blue			2	5000126-3	5000126-8
		3. Not Used			3	5000126-4	5000126-9
		4. Green/Yellow			4	5000126-5	5000126-10
		5			5000126-6	5000126-11	

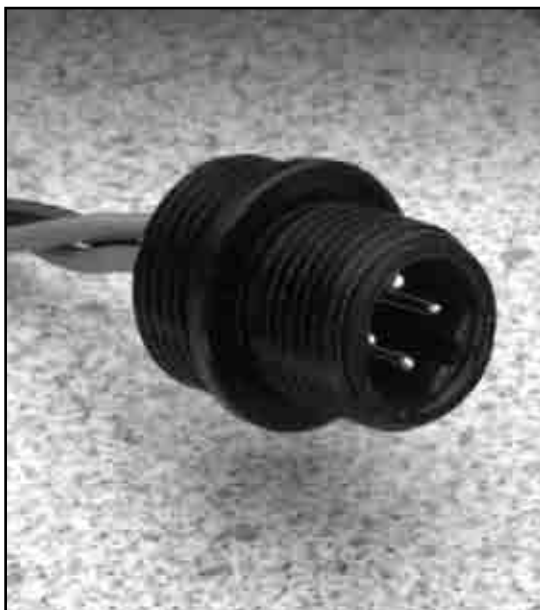
**MICRO-MINI AC DIN STANDARD FEMALE PLUG** WITH **NYLON** COUPLING NUT

<b>POLES</b>	<b>FACE VIEW FEMALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>CABLE LENGTH (METERS)</b>	<b>STRAIGHT</b>	<b>RIGHT ANGLE</b>
4		1. Black	300V, 3A	22	1	5000126-2N	5000126-7N
		2. Blue			2	5000126-3N	5000126-8N
		3. Not Used			3	5000126-4N	5000126-9N
		4. Green/Yellow			4	5000126-5N	5000126-10N
		5			5000126-6N	5000126-11N	

Note: Special lengths available upon request — consult factory.

# SPECIFICATIONS MICRO-MINI AC DIN STANDARD MALE RECEPTACLES (4 POLE 3 WIRE)

- 22 AWG Standard Color Code
- 300V 105°C AWM Leads
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC/300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

### Material Data

Insert:

PUR, black

Pigtail Leads:

AWM/MTW UL style 1430 or 1569

Contacts:

Machined Brass

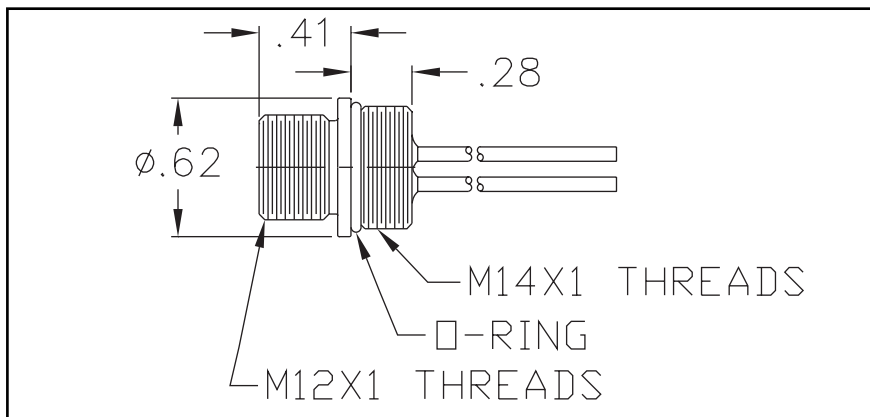
Contact Plating:

Gold

Receptacle Shell:

Machined aluminum with black anodized finish  
Nylon 6/6

## DIMENSIONS






**MICRO-MINI AC DIN MALE RECEPTACLES** WITH **ZINC DIECAST** RECEPTACLE SHELL

<b>POLES</b>	<b>FACE VIEW MALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>LEAD LENGTH</b>	<b>M14X1 THREAD</b>
4		1. Black 2. Blue 3. Not Used 4. Green/Yellow	300V, 3A	22	3"	5000126-1

**MICRO-MINI AC DIN MALE RECEPTACLES** WITH **NYLON** RECEPTACLE SHELL

<b>POLES</b>	<b>FACE VIEW MALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>LEAD LENGTH</b>	<b>M14X1 THREAD</b>
4		1. Black 2. Blue 3. Not Used 4. Green/Yellow/	300V, 3A	22	3"	5000126-1N

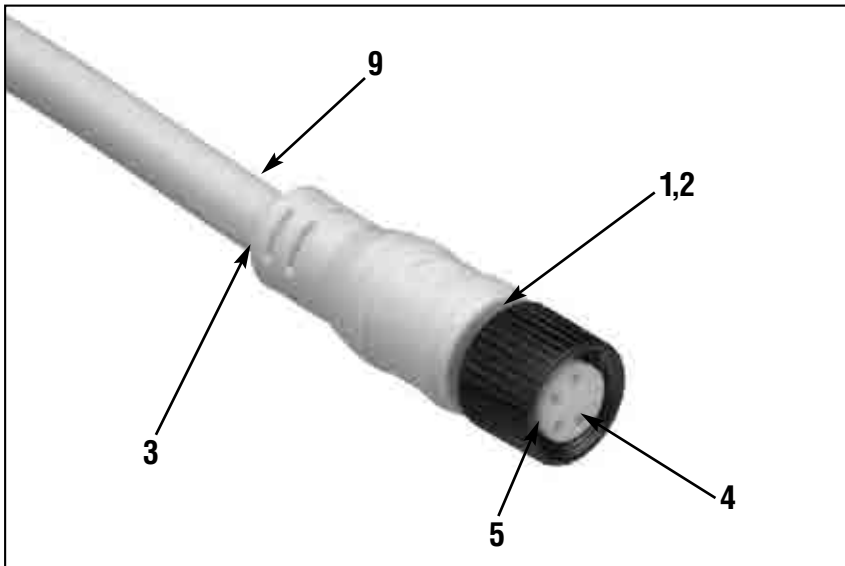


# PICO-LINE CONNECTORS

**“THE  
TOUGH LINE  
FOR TOUGH  
JOBS”**

Crouse-Hinds Pico-Line series allows quick disconnect for all your 8mm control device needs. Our compact connector design enhances downsizing system components to fit minimum available space.

Coupler and snap-in versions allow easy and secure connections. Plugs available in straight and right angle designs with LED's for right angle for both PNP and NPN circuitry.



## FEATURES & BENEFITS

- 1 **Epoxy-coated coupler** that passes 1000-hour salt-spray test per MIL-STD-202F for exceptional corrosion resistance.
- 2 **Vibration-resistant ratchet coupler** design prevents loosening in high-vibration applications.
- 3 **Connector-to-cable molded junction** securely bonds for excellent reliability.
- 4 **Contact plating** provides superior conductivity and corrosion resistance; 30 micro-inch gold over 50 micro-inch nickel plating.
- 5 **Superior insert-to-overmold** bond withstands 60-lb. sideload force.
- 6 **Environmental protection** rating for Snap-In design meets NEMA-4/IP 65 and coupler version meets NEMA-6P/IP 68.
- 7 **Female “LED” plugs** available with PNP or NPN circuitry molded into clear PVC body allowing 360° visibility.
- 8 **Snap-in and coupler cable** assemblies are temperature rated from -40°C to +105°C.
- 9 **Easy stripping PVC “high flex” jacketed cable** with “fillerless” design allows fast stripping with simple hand tools.
  - **PVC cable** having oil resistant jacket and conductors
  - **Polyurethane “PUR” cable** with jacket having excellent oil and abrasion resistance.
- 10 **Field attachable connector** with straight and right angle configurations with new innovative “conductor displacement” technology using internal inserts marked with IEC color code.
  - **Internal insert** polarized to ensure proper color code rotation with three uniquely colored inserts designed to accept 0.14mm<sup>2</sup> to 0.34mm<sup>2</sup> conductors.
- 11 Every unit is **100% electrically tested** using state of the art automated test equipment.

# SPECIFICATIONS PICO-LINE 8MM SNAP-IN PLUGS (3 AND 4 POLE)

- Female and Male Plugs
- 24 AWG Conductors
- 105°C PVC Cable
- Straight and Right Angle Versions
- IEC Color Code
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals



File #E169897

### Electrical Data

Contact Resistance:	$\leq 5m\Omega$
Current Rating:	See chart with part number detail
Voltage Rating:	60 VAC RMS / 75 VDC
Dielectric Withstand Voltage:	1000 VAC

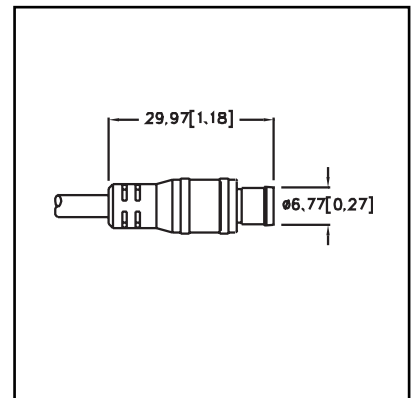
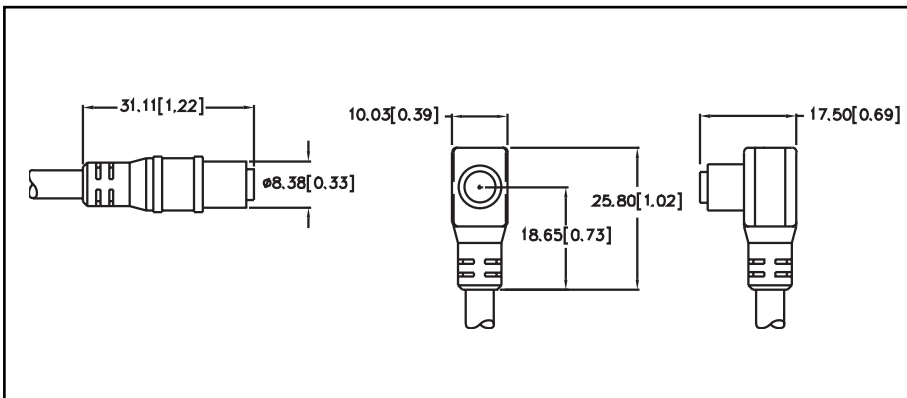
### Environmental Data

Protection:	NEMA 4; IEC IP 65
Temperature Range:	-40°C to +105°C



### Material Data

Body:	Yellow, PVC
Insert:	Yellow, PUR
Cable:	AWM UL style 2661, PVC
Contacts:	Machined Brass
Contact Plating:	30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel



## DIMENSIONS



## PICO-LINE 8MM SNAP-IN FEMALE PLUG

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown 2. Black 3. Blue	4A	24	2 5	5000125-13 5000125-16	5000125-18 5000125-21
4		1. Brown 2. White 3. Blue 4. Black	4A	24	2 5	5000128-13 5000128-16	5000128-18 5000128-21

## PICO-LINE 8MM SNAP-IN MALE PLUG

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT
3		1. Blue 2. Black 3. Brown	4A	24	2	5000125-23
4		1. Blue 2. Black 3. Brown 4. White	4A	24	2	5000128-23

Note: Special lengths available upon request — consult factory.



# SPECIFICATIONS PICO-LINE 8MM COUPLER PLUGS (3 AND 4 POLE)

- Female Plug
- 24 AWG Conductors
- 105°C PVC Cable
- Straight and Right Angle Versions
- IEC Color Code
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Coupler Design



## TECHNICAL DATA

### Agency Approvals



File #E169897

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with  
part number detail

Voltage Rating:

60 VAC RMS / 75 VDC

Dielectric Withstand Voltage:

1000 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-40°C to +105°C

### Material Data

Body:

Yellow, PVC

Insert:

Yellow, PUR

Cable:

AWM UL style 2661, PVC

Contacts:

Machined Brass

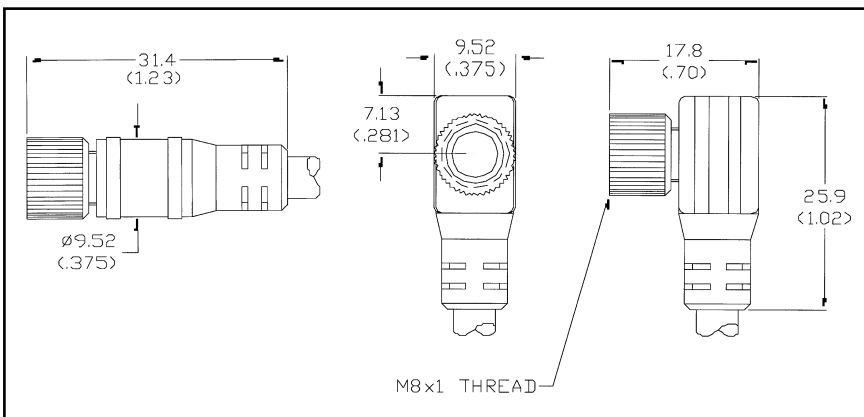
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel



Coupling Nut:

Machined Brass with black epoxy coat

## DIMENSIONS



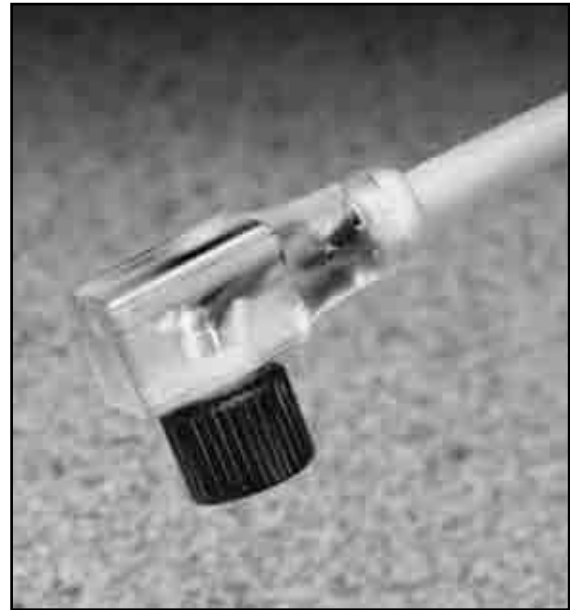
# PICO-LINE 8MM FEMALE PLUG WITH MACHINED BRASS COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown 2. Black 3. Blue	4A	24	2 5	5000125-3 5000125-6	5000125-8 5000125-11
4		1. Brown 2. White 3. Blue 4. Black	4A	24	2 5	5000128-3 5000128-6	5000128-8 5000128-11

Note: Special lengths available upon request — consult factory.

# SPECIFICATIONS PICO-LINE "LED" FEMALE PLUGS (3 POLE)

- 24 AWG Conductors
- 105°C PVC Cable
- Right Angle Version
- Snap-in and Coupler Design
- PNP and NPN LED Versions
- IEC Color Code
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals



File #E169897

### Electrical Data

Contact Resistance:  $\leq 5\text{m}\Omega$   
Current Rating: 4 AMPS  
Voltage Rating: 10-30 VDC

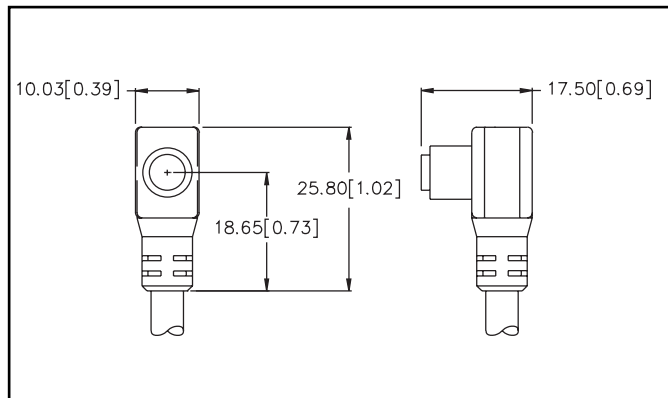
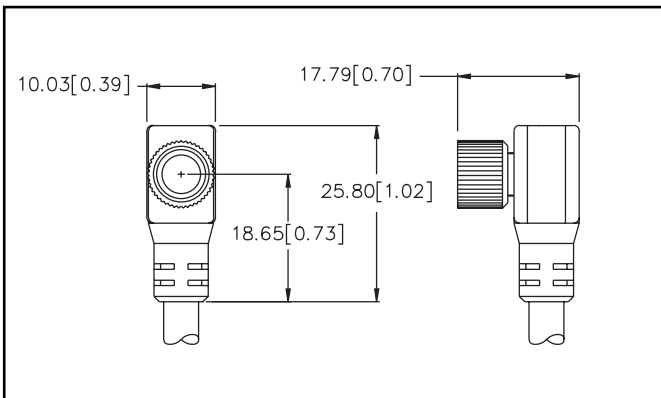
### Environmental Data

Protection; Snap-in Version: NEMA 4; IEC IP 65  
Protection; Coupler Version: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
Temperature Range: -40°C to +105°C


### Material Data

Body: Clear, PVC  
Insert: Yellow, PUR  
Cable: AWM UL style 2661, PVC  
Contacts: Machined Brass  
Contact Plating: 30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
Coupling Nut: Machined Brass with black epoxy coat


## DIMENSIONS



# PICO-LINE SNAP-IN "LED" FEMALE PLUG

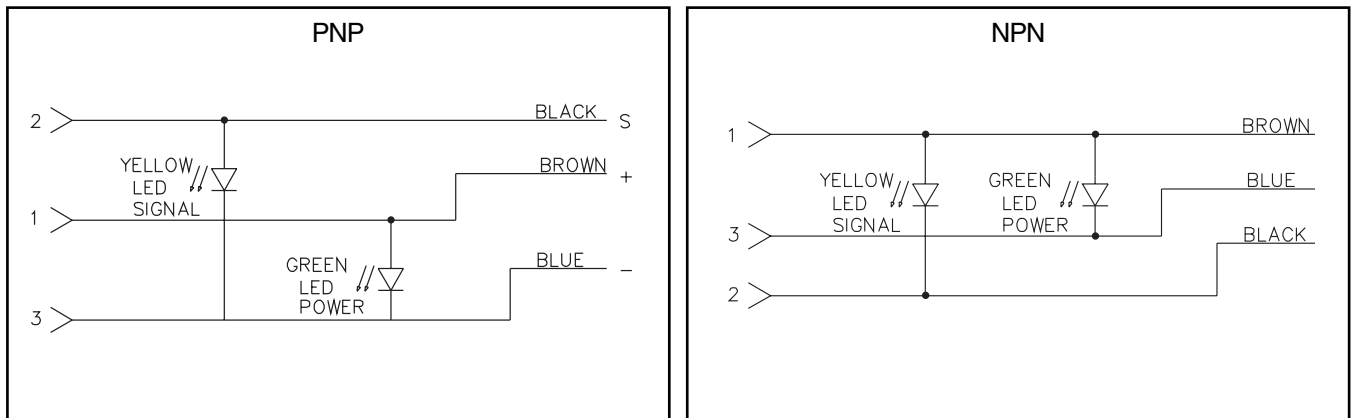
POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	NPN	PNP
3		1. Brown 2. Black 3. Blue	4A	24	2 5	5000125-N18 5000125-N21	5000125-P18 5000125-P21

# PICO-LINE COUPLER "LED" FEMALE PLUG

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	NPN	PNP
3		1. Brown 2. Black 3. Blue	4A	24	2 5	5000125-N8 5000125-N11	5000125-P8 5000125-P11

Note: Special lengths available upon request — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS PICO-LINE 8MM RECEPTACLES (3 AND 4 POLE)

- 24 AWG Single Conductor Leads
- Snap-in and Coupler Design
- IEC Color Code
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals



File #E169897

### Electrical Data

Contact Resistance:	$\leq 5m\Omega$
Current Rating:	See chart with part number detail
Voltage Rating:	60 VAC RMS / 75 VDC
Dielectric Withstand Voltage:	1000 VAC

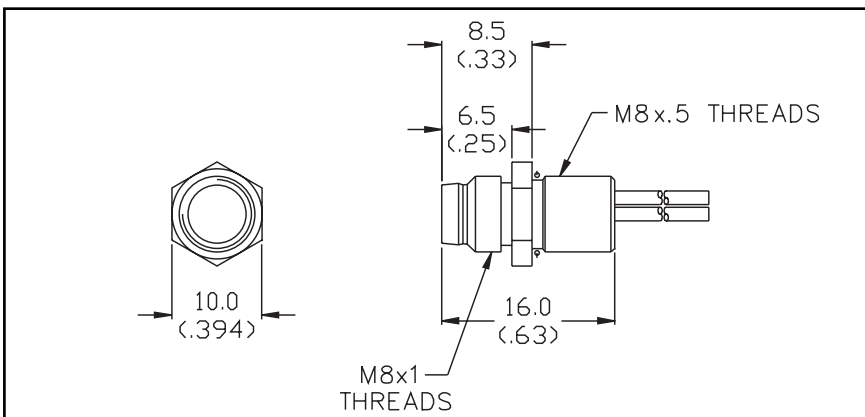
### Environmental Data

Protection; Snap-in Version:	NEMA 4; IEC IP 65
Protection; Coupler Version:	NEMA 1, 3, 4, 6P and 13; IEC IP 68
Temperature Range:	-20°C to +80°C

### Material Data



Insert:	Black, PUR
Pigtail Leads:	AWM/MTW UL style 1061
Contacts:	Machined Brass
Contact Plating:	30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel
Receptacle Shell:	Machined brass with nickel plating

## DIMENSIONS





**PICO-LINE 8MM MALE RECEPTACLES** WITH **MACHINED BRASS** RECEPTACLE SHELL

<b>POLES</b>	<b>FACE VIEW MALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>CABLE LENGTH (METERS)</b>	<b>STRAIGHT M8X0.5</b>
3		1. Blue 2. Black 3. Brown	4A	24	0.5	5000125-1
4		1. Blue 2. Black 3. Brown 4. White	4A	24	0.5	5000128-1

Note: Special lead lengths available upon request — consult factory.

# SPECIFICATIONS PICO-LINE 8MM FIELD ATTACHABLES (3 AND 4 POLE)

- Straight and Right Angle Versions
- Female and Male-In-Line Designs
- "Conductor" Penetration Design
- Suitable for 0.14mm<sup>2</sup> 24AWG through 0.34mm<sup>2</sup> 22 AWG Conductors
- Complies with IEC 60947-5-2
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Electrical Data

Contact Resistance:	≤ 10mΩ
Current Rating:	4 AMPS Maximum
Voltage Rating:	60 VAC

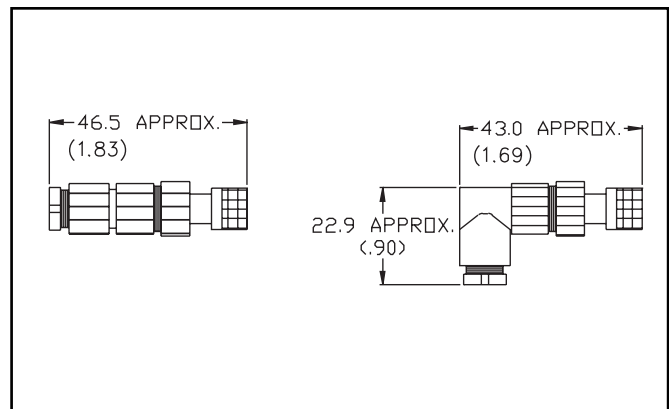
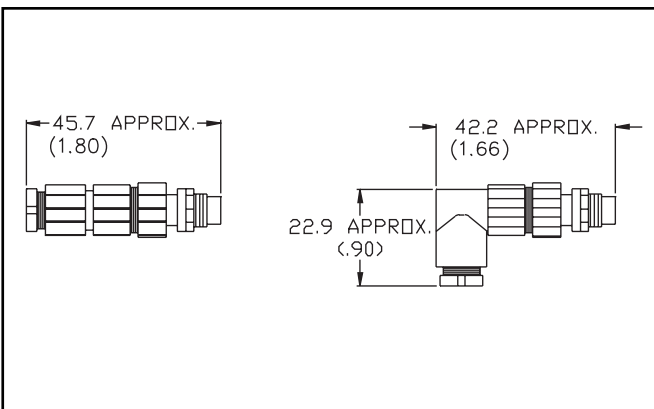
### Environmental Data

Protection:	IEC IP 67
Temperature Range:	-25°C to +70°C



### Material Data

Body:	Black, Nylon
Contacts:	Machined copper alloy
Contact Plating:	Gold plate
Coupling Nut:	Zinc diecast with nickel plate



## DIMENSIONS



# PICO-LINE 8MM FEMALE FIELD ATTACHABLES

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	STRAIGHT	RIGHT ANGLE
3		1. Brown 2. Black 3. Blue	4A	5000125-46	5000125-47
4		1. Brown 2. White 3. Blue 4. Black	3A	5000128-32	5000128-33

# PICO-LINE 8MM MALE FIELD ATTACHABLES

POLES	FACE VIEW MALE	COLOR CODE	RATING	STRAIGHT	RIGHT ANGLE
3		1. Blue 2. Black 3. Brown	4A	5000125-48	5000125-49
4		1. Blue 2. Black 3. Brown 4. White	3A	5000128-34	5000128-35

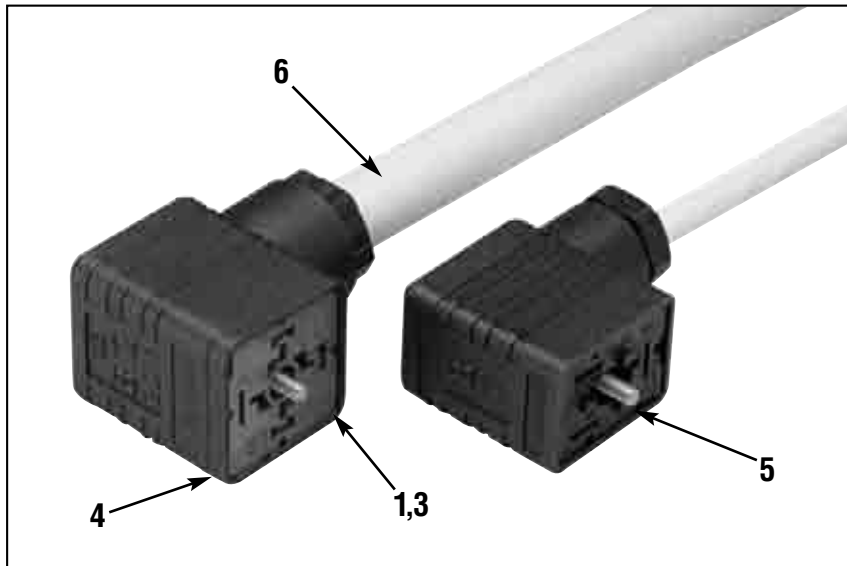


# DIN-43650 VALVE CONNECTORS

**“THE  
TOUGH LINE  
FOR TOUGH  
JOBS”**

Crouse-Hinds Valve connectors are used with hydraulic, pneumatic and solenoid valves for electrical connection to motors, pressure switches and pumps. Standard configurations for DIN-43650 Form A, Form B and Form C and Industry Standard designs for Form B and Form C are available.

Our valve configurations have optional Mini-Line and Micro-Mini connectors available, which can be attached to the opposite end for improved “quick-disconnect” operations. Hardware and cable options for the Mini-Line and Micro-Mini allow improved product design for your specific application needs.



## FEATURES & BENEFITS

- 1 **Wide variety of internal circuits** available with LED's and surge suppressors.
- 2 **Translucent housing** for DIN-43650 Form A, Form B and Industry Standard “LED” configuration allows 360° visibility.
- 3 **High reliability, self-cleaning female contact** design with tin plating.
- 4 **Environmental protection** rating of IP 65 for dust proof and splash proof applications.
- 5 **Vibration-proof connector locking** utilizing captive screw or knurled screw option available.
- 6 **Easy stripping PVC “high flex” jacketed cable** with “fillerless” design allows fast stripping with simple hand tools.
- 7 **Hardware options** for Mini-Line and Micro-Mini connector attachments: (Diecast Zamak, nylon and stainless steel coupling nuts available).
- 8 Every unit is **100% electrically tested** using state of the art automated test equipment.



# SPECIFICATIONS DIN 43650 FORM-A 18MM VALVE CONNECTORS

- Field Attachable Version
- LED and/or Varistor Circuitry
- Translucent Housing with 360° LED Visibility
- 18 AWG, 300V, 105°C Cable
- 0° and 180°, Position Options
- Cable Assemblies With or Without Mini or Micro Plugs
- Self Cleaning Contacts



## TECHNICAL DATA

### Agency Approvals

UL Recognized  
CSA Certified  
VDE Approved

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
Current Rating: See chart with part number detail  
Voltage Rating: See chart with part number detail

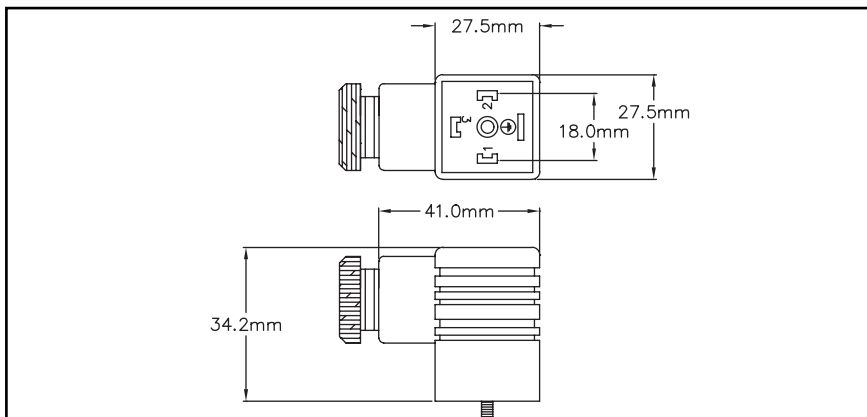
### Environmental Data

Protection: IEC IP 65  
Temperature Range: Attachable: -40°C to +125°C  
With cable: -20°C to +105°C

### Material Data

Housing: Black or translucent nylon  
Insert: Black or brown nylon  
Cable: Black, AWM UL style 2661, PVC jacket  
Female Contact: Copper alloy  
Contact Plating: Tin

## DIMENSIONS



# DIN 43650 FORM-A 18MM FIELD ATTACHABLE

POLES	RATING	AWG	CABLE DIA. RANGE	WITH LED AND VARISTOR	WITHOUT LED OR VARISTOR
3	24V AC/DC, 8A	14-18	.180-.275	V1D1B10	
	24V AC/DC, 8A	14-18	.235-.355	V1B1B10	
	120V AC/DC, 8A	14-18	.180-.275	V1D2B10	
	120V AC/DC, 8A	14-18	.235-.355	V1B2B10	
	250V AC/DC, 8A	14-18	.180-.275		V1C3A10
	250V AC/DC, 8A	14-18	.235-.355		V1A3A10

# DIN 43650 FORM-A 18MM WITH AWM CABLE

POLES	COLOR CODE	RATING	AWG	WITH LED AND VARISTOR	WITHOUT LED OR VARISTOR
3	Brown	24V AC/DC, 8A	18	V1B1B10AMxxx	
	Blue	120V AC/DC, 8A		V1B2B10AMxxx	
	Green/Yellow	250V AC/DC, 8A			V1A3A10AMxxx

# DIN 43650 FORM-A 18MM TO MINI OR MICRO MALE EXTENSIONS

POLES	COLOR CODE	RATING	AWG	WITH LED AND VARISTOR	WITHOUT LED OR VARISTOR
3	Brown	24V AC/DC, 8A	18	V1B1B10AMxxx**	
	Blue	120V AC/DC, 8A		V1B2B10AMxxx**	
	Green/Yellow	250V AC/DC, 8A			V1A3A10AMxxx**

Note: xxx = cable length in meters. Last digit represents tenths of a meter.

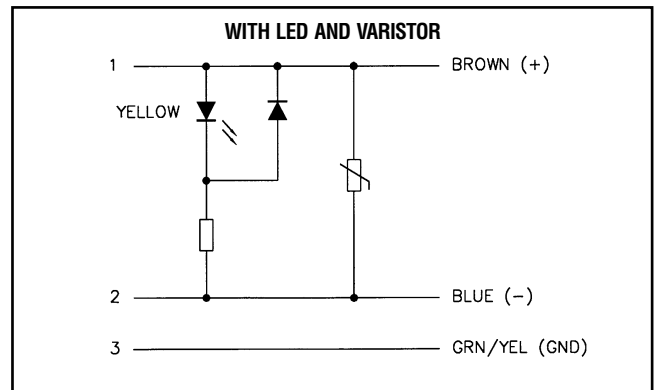
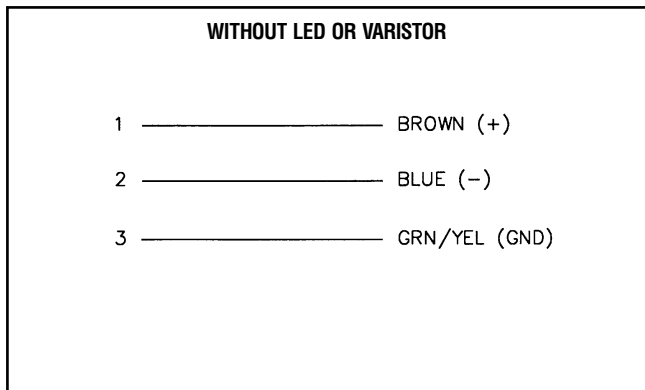
\*\* = connector code. Choose from:

- A1 = Straight Male Mini
- A2 = Right Angle Male Mini
- B1 = Straight Male-In-Line Micro
- B2 = Right Angle Male-In-Line Micro

Example: V1B1B10AM125A1 = 24V plug with LED & Varistor on 12.5 meters of cable with straight male mini plug at other end

All part numbers have ground contact opposite cable entrance. For other ground configurations and circuitry options consult factory.

## WIRING DIAGRAMS



# SPECIFICATIONS DIN 43650 FORM-B VALVE CONNECTORS/INDUSTRY STANDARD

- Field Attachable Version
- LED and/or Varistor Circuitry
- Translucent Housing with 360° LED Visibility
- 18 AWG, 300V, 105°C Cable
- Cable Assemblies With or Without Mini or Micro Plugs
- Self Cleaning Contacts



## TECHNICAL DATA

### Agency Approvals

UL Recognized  
 CSA Certified  
 VDE Approved

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: See chart with part number detail  
 Voltage Rating: See chart with part number detail

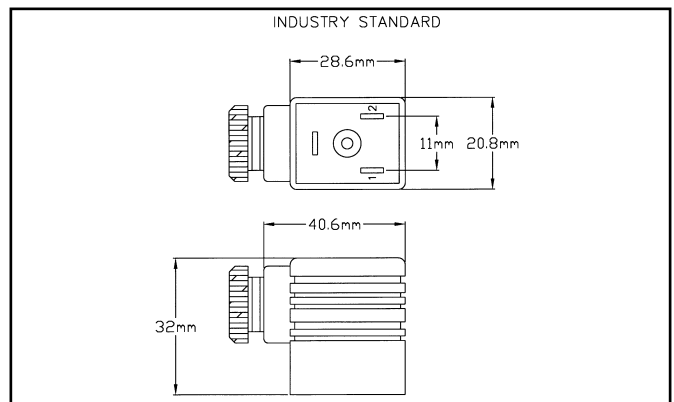
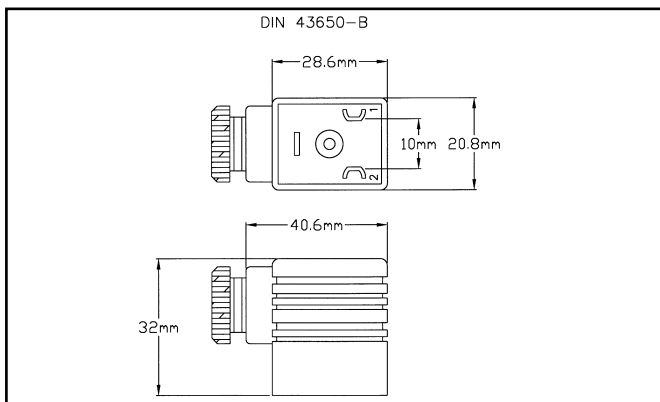
### Environmental Data

Protection: IEC IP 65  
 Temperature Range:  
 Attachable: -40°C to +125°C  
 With cable: -20°C to +105°C

### Material Data

Housing: Black or translucent nylon  
 Insert: Black or brown nylon  
 Cable: Black, AWM UL style 2661, PVC jacket  
 Female Contact: Copper alloy  
 Contact Plating: Tin

## DIMENSIONS



# DIN 43650 FORM-B/INDUSTRY STANDARD FIELD ATTACHABLE

POLES	RATING	AWG	CABLE DIA. RANGE	IND. STD. 11MM W/LED & VARISTOR	IND. STD. 11MM W/O LED OR VARISTOR	DIN 43650 10MM W/LED & VARISTOR	DIN 43650 10MM W/O LED OR VARISTOR
3	24V AC/DC, 8A 120V AC/DC, 8A 250V AC/DC, 8A	14-18	.180-.275	V2D1B10 V2D2B10	V2C3A10	V3D1B10 V3D2B10	V3C3A10

# DIN 43650 FORM-B/INDUSTRY STANDARD WITH AWM CABLE

POLES	COLOR CODE	RATING	AWG	IND. STD. 11MM W/LED & VARISTOR	IND. STD. 11MM W/O LED OR VARISTOR	DIN 43650 10MM W/LED & VARISTOR	DIN 43650 10MM W/O LED OR VARISTOR
3	Brown Blue Green/Yellow	24V AC/DC, 8A 120V AC/DC, 8A 250V AC/DC, 8A	18	V2D1B10AMxxx V2D2B10AMxxx	V2C3A10AMxxx	V3D1B10AMxxx V3D2B10AMxxx	V3C3A10AMxxx

# DIN 43650 FORM-B/INDUSTRY STANDARD TO MINI OR MICRO MALE EXTENSIONS

POLES	COLOR CODE	RATING	AWG	IND. STD. 11MM W/LED & VARISTOR	IND. STD. 11MM W/O LED OR VARISTOR	DIN 43650 10MM W/LED & VARISTOR	DIN 43650 10MM W/O LED OR VARISTOR
3	Brown Blue Green/Yellow	24V AC/DC, 8A 120V AC/DC, 8A 250V AC/DC, 8A	18	V2D1B10AMxxx** V2D2B10AMxxx**	V2C3A10AMxxx**	V3D1B10AMxxx** V3D2B10AMxxx**	V3C3A10AMxxx**

Note: xxx = cable length in meters. Last digit represents tenths of a meter.

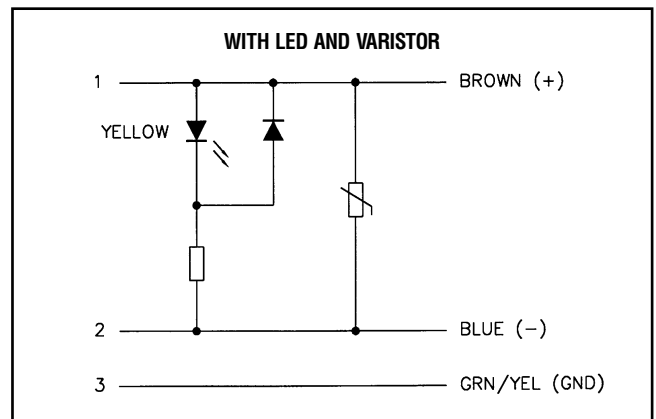
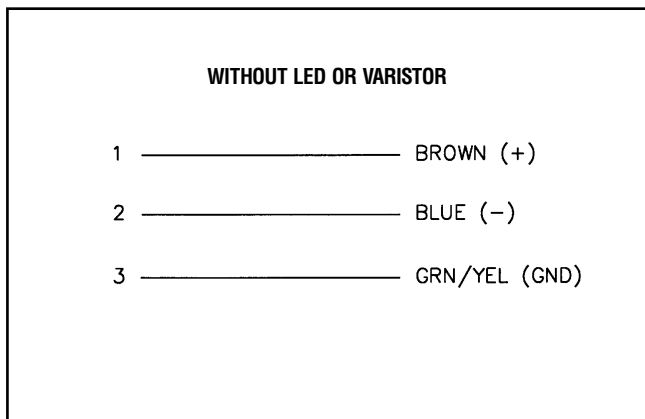
\*\* = connector code. Choose from:

- A1 = Straight Male Mini
- A2 = Right Angle Male Mini
- B1 = Straight Male-In-Line Micro
- B2 = Right Angle Male-In-Line Micro

Example: V2D1B10AM125A1 = 11mm plug with 24V LED & Varistor on 12.5 meters of cable with straight male mini plug at other end

For other circuitry options consult factory.

## WIRING DIAGRAMS



# SPECIFICATIONS DIN 43650 FORM-C/INDUSTRY STANDARD VALVE CONNECTORS

- Field Attachable Version
- 18 AWG, 300V, 105°C Cable
- 0°, 180°, and Dual Ground Position Options
- Cable Assemblies With or Without Mini or Micro Plugs
- Self Cleaning Contacts



## TECHNICAL DATA

### Agency Approvals

UL Recognized  
CSA Certified  
VDE Approved

### Electrical Data

Contact Resistance:  
Current Rating:  
Voltage Rating:

$\leq 5m\Omega$   
See chart with part number detail  
See chart with part number detail

### Environmental Data

Protection:  
Temperature Range:

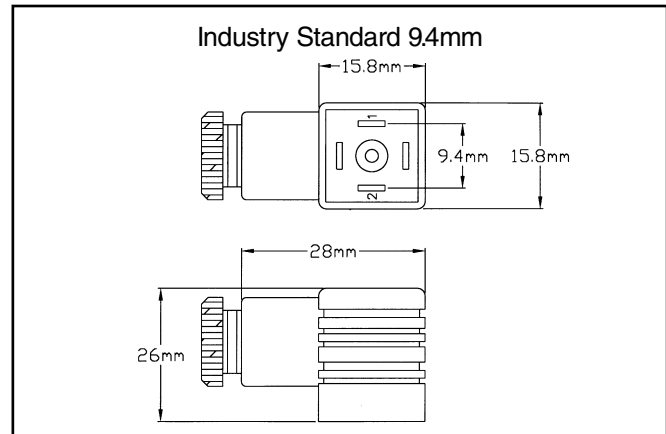
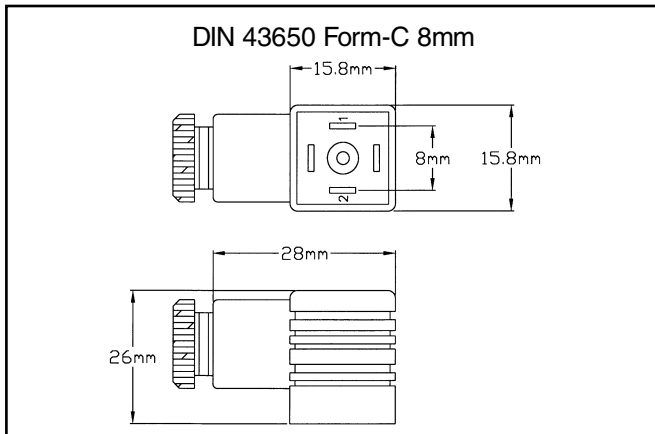
IEC IP 65  
Attachable: -40°C to +125°C  
With cable: -20°C to +105°C

### Material Data

Housing:  
Insert:  
Cable:  
Female Contact:  
Contact Plating:

Black Nylon  
Black Nylon  
Black, AWM UL style 2661, PVC jacket  
Copper alloy  
Tin

## DIMENSIONS





## DIN 43650 FORM-C/INDUSTRY STANDARD FIELD ATTACHABLE

POLES	RATING	AWG	CABLE DIA. RANGE	DIN 43650 8MM	INDUSTRY STANDARD 9.4MM
3	250V AC/DC, 8A	18	.135-.235	V5E3A10	V4E3A10

## DIN 43650 FORM-C/INDUSTRY STANDARD WITH AWM CABLE

POLES	COLOR CODE	RATING	AWG	DIN 43650 8MM	INDUSTRY STANDARD 9.4MM
3	Brown Blue Green/Yellow	250V AC/DC, 8A	18	V5E3A10AMxxx	V4E3A10AMxxx

## DIN 43650 FORM-C/INDUSTRY STANDARD TO MINI OR MICRO MALE EXTENSIONS

POLES	COLOR CODE	RATING	AWG	DIN 43650 8MM	INDUSTRY STANDARD 9.4MM
3	Brown Blue Green/Yellow	250V AC/DC, 8A	18	V5E3A10AMxxx**	V4E3A10AMxxx**

Note: xxx = cable length in meters. Last digit represents tenths of a meter.

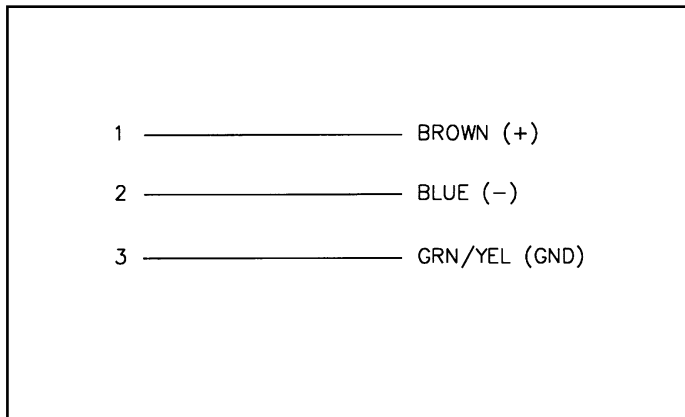
\*\* = connector code. Choose from:

- A1 = Straight Male Mini
- A2 = Right Angle Male Mini
- B1 = Straight Male-In-Line Micro
- B2 = Right Angle Male-In-Line Micro

Example: V4E3C10AM125B1 = 9.4mm plug on 12.5 meters of cable  
with straight male-in-line micro plug at other end

For other circuitry options consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MINI-PLEX INTERCONNECT DISTRIBUTION SYSTEM – PARALLEL

- “Parallel” Wired Circuit
- 4, 6, 8 Ports Available
- 3 Pole Output Receptacles (Male or Female Available)
- Input Receptacle (Input Cable Optional)
- Mounting Adapters Available
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

7 AMPS

Voltage Rating:

600VAC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +75°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, PET

Insert:

Yellow, PVC

Input Cable:

Optional — consult factory

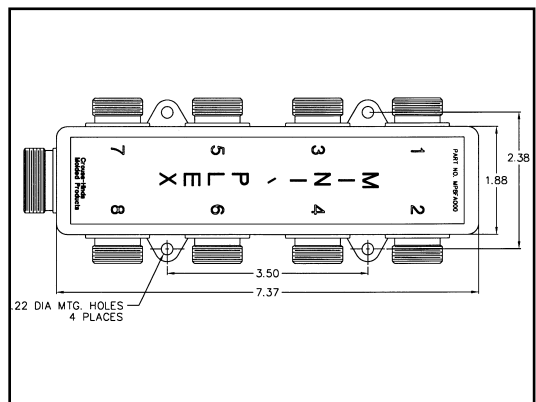
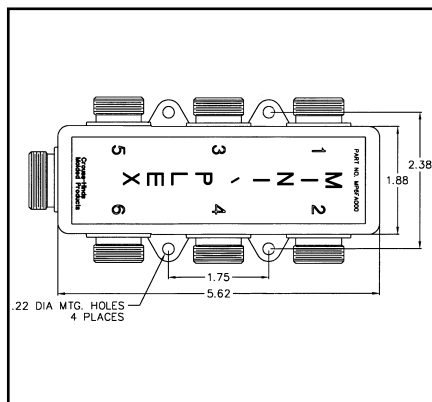
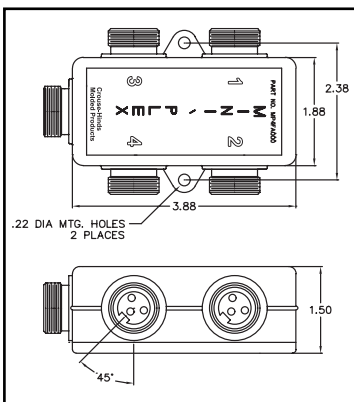
Contacts:

Machined Brass







Receptacle Shell:

Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

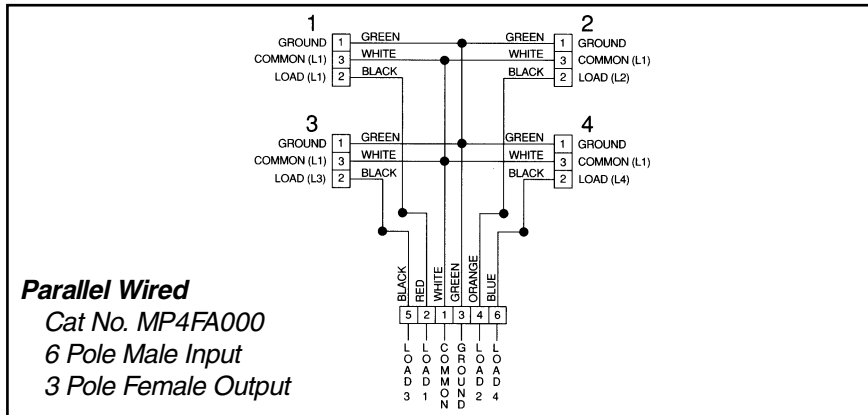


# MINI-PLEX PARALLEL WIRED

PORTS	OUTPUT RECEPTACLE FEMALE	COLOR CODE	INPUT RECEPTACLE MALE	COLOR CODE	RATING	PART NUMBER
4		1. Green 2. Black 3. White		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	7A	MP4FA000
6		1. Green 2. Black 3. White		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	7A	MP6FA000
8		1. Green 2. Black 3. White		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	7A	MP8FA000

Note: Stainless steel shells available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MINI-PLEX INTERCONNECT DISTRIBUTION SYSTEM – SERIES

- “Series” Wired Circuit
- 4, 6, 8 Ports Available
- 3 Pole Output Receptacles (Male or Female Available)
- Input Receptacle (Input Cable Optional)
- Mounting Adapters Available
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

13 AMPS

Voltage Rating:

600VAC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, PET

Insert:

Yellow, PVC

Input Cable:

Optional — consult factory

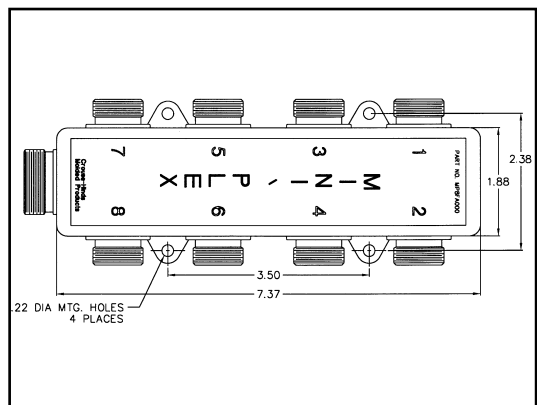
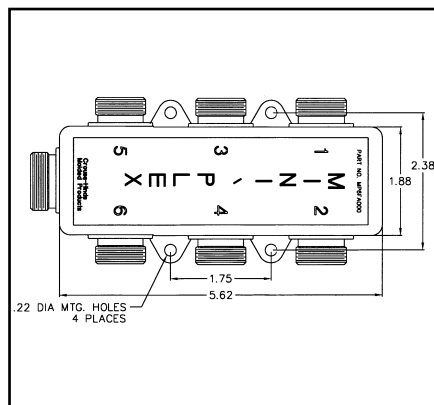
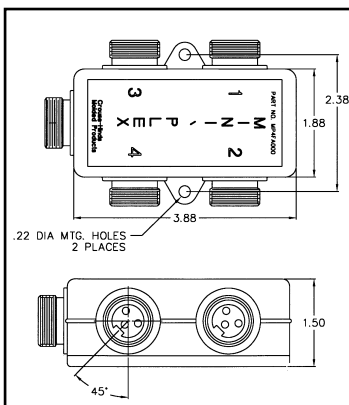
Contacts:

Machined Brass







Receptacle Shell:

Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

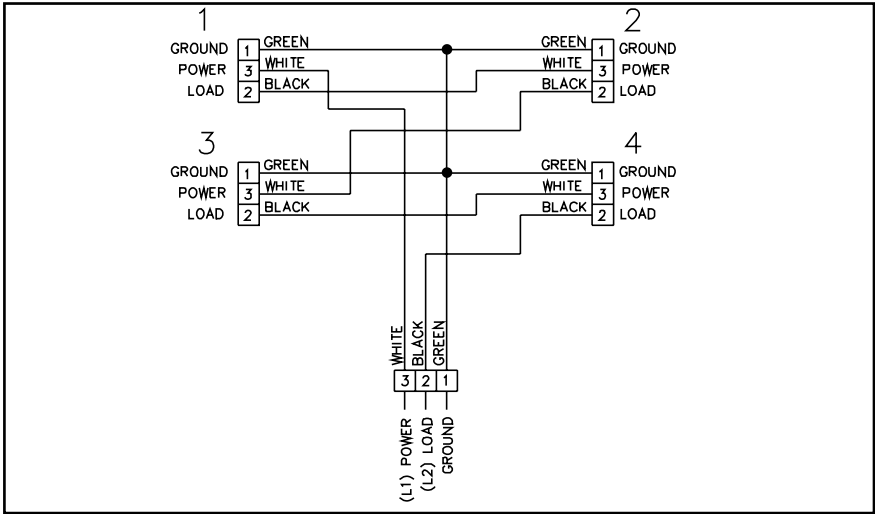


# MINI-PLEX SERIES WIRED

PORTS	OUTPUT RECEPTACLE FEMALE	COLOR CODE	INPUT RECEPTACLE MALE	COLOR CODE	RATING (MAX.)	PART NUMBER
4		1. Green 2. Black 3. White		1. Green 2. Black 3. White	13A	MP4FB000
6		1. Green 2. Black 3. White		1. Green 2. Black 3. White	13A	MP6FB000
8		1. Green 2. Black 3. White		1. Green 2. Black 3. White	13A	MP8FB000

Note: Stainless steel shells available — consult factory.

## WIRING DIAGRAM





# SPECIFICATIONS MINI-PLEX INTERCONNECT DISTRIBUTION SYSTEM – LED

- LED “PNP” or “NPN” Versions
- 4, 6, 8 Ports Available
- 3 Pole Output Receptacles (Male or Female Available)
- Input Receptacle (Input Cable Optional)
- Mounting Adapters Available
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E169897  
File #LR13963

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
Current Rating: 7 AMPS  
Voltage Rating: 120VAC

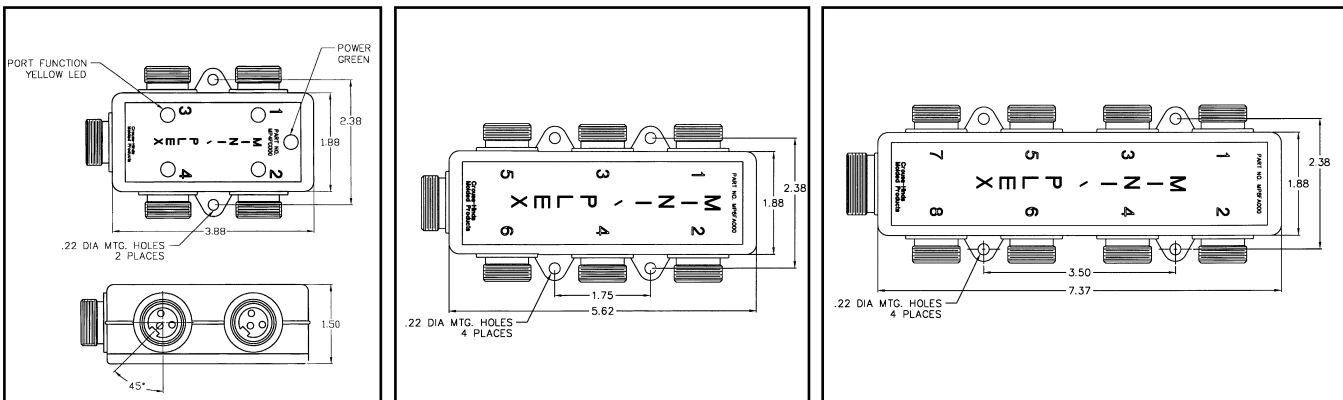
### Environmental Data

Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
Temperature Range:  $-30^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$   
High Pressure Water Test: 1200 PSI spray

### Material Data

Body: Yellow, PET  
Insert: Yellow, PVC  
Input Cable: Optional — consult factory  
Contacts: Machined Brass  
Receptacle Shell: Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

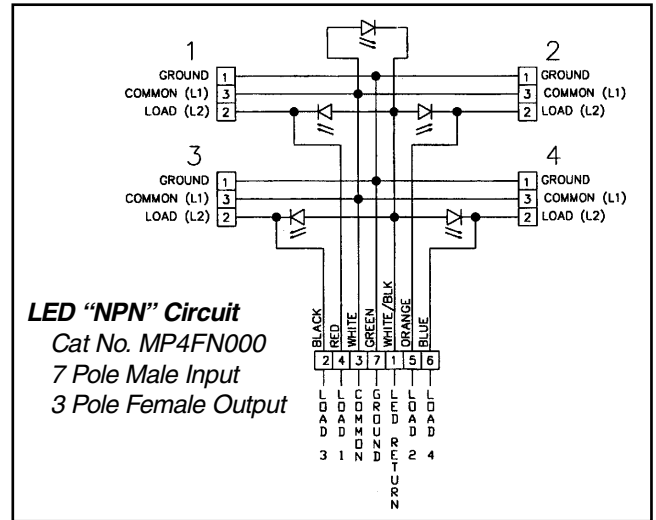
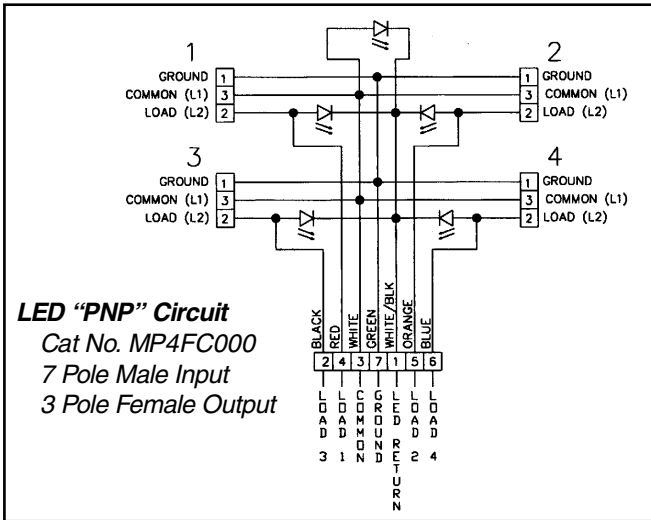


# MINI-PLEX "LED" WIRED

PORTS	OUTPUT RECEPTACLE FEMALE	COLOR CODE	INPUT RECEPTACLE MALE	COLOR CODE	RATING (MAX.)	"PNP" CIRCUIT	"NPN" CIRCUIT
4		1. Green 2. Black 3. White		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	7A	MP4FC000	MP4FN000
6		1. Green 2. Black 3. White		1. Orange 2. Blue 3. Red-Black 4. Green-Black 5. White 6. Red 7. Green 8. White-Black 9. Black	7A	MP6FC000	MP6FN000
8		1. Green 2. Black 3. White		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Blue-Black 8. Black-White 9. Green 10. Red 11. White 12. Black	7A	MP8FC000	MP8FN000

Note: Stainless steel shells available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MINI-PLEX INTERCONNECT DISTRIBUTION SYSTEM (4 POLE/3 WIRE)

- 4 Pole/3 Wire Configuration
- 4, 6, 8 Ports Available
- 4 Pole Output Receptacles (Male or Female Available)
- Input Receptacle (Input Cable Optional)
- Mounting Adapters Available
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

7 AMPS

Voltage Rating:

600VAC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, PET

Insert:

Yellow, PVC

Input Cable:

Optional — consult factory

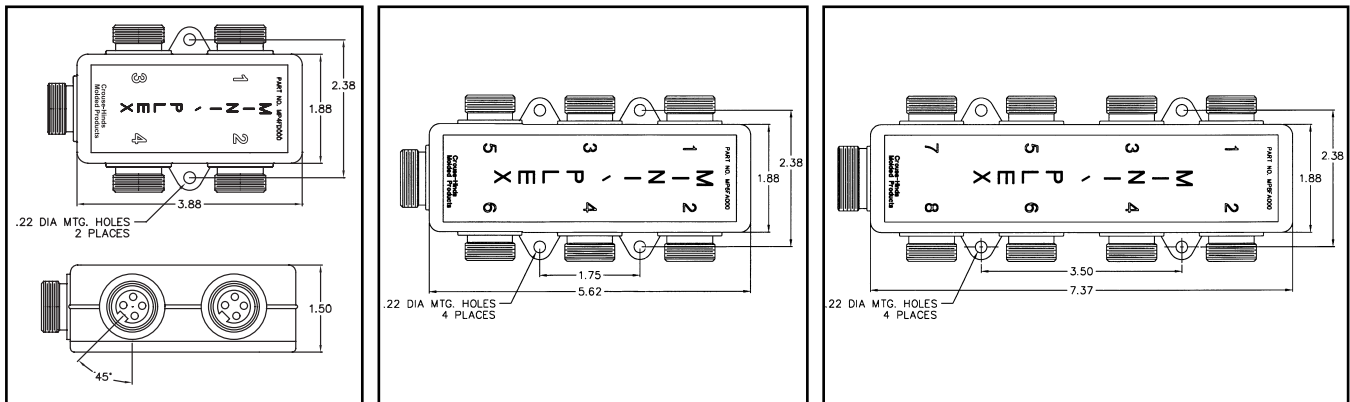
Contacts:

Machined Brass

Receptacle Shell:

Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

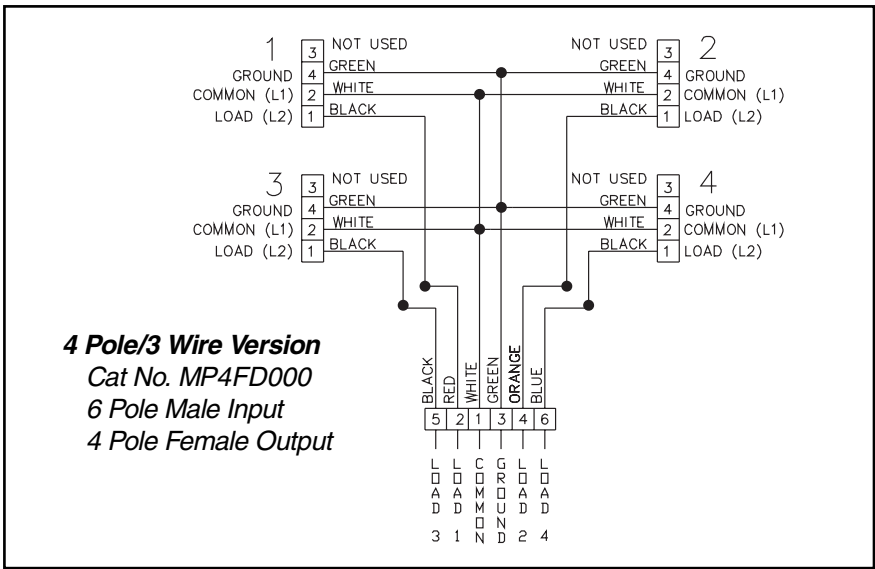


# MINI-PLEX 4 POLE/3 WIRE VERSION

PORTS	OUTPUT RECEPTACLE FEMALE	COLOR CODE	INPUT RECEPTACLE MALE	COLOR CODE	RATING (MAX.)	PART NUMBER
4		1. Black 2. White 3. Not Used 4. Green		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	7A	MP4FD000
6		1. Black 2. White 3. Not Used 4. Green		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	7A	MP6FD000
8		1. Black 2. White 3. Not Used 4. Green		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	7A	MP8FD000

Note: Stainless steel shells available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MINI-PLEX INTERCONNECT DISTRIBUTION SYSTEM (5 POLE)

- 5 Pin Solenoid Configuration
- 4 Port Available
- 5 Pole Output Receptacles (Male or Female Available)
- Input Receptacle (Input Cable Optional)
- Mounting Adapters Available
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E 169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

7 AMPS

Voltage Rating:

600VAC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Body Material:

Yellow, PET

Insert:

Yellow, PVC

Input Cable:

Optional — consult factory

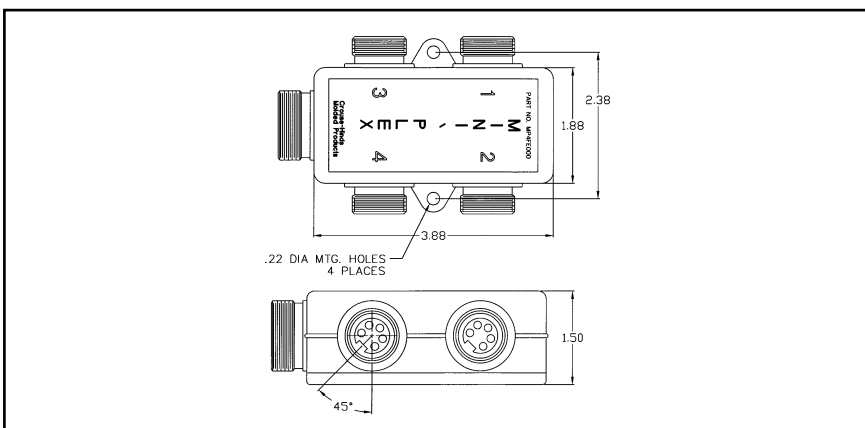
Contacts:

Machined Brass



Receptacle Shell:

Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

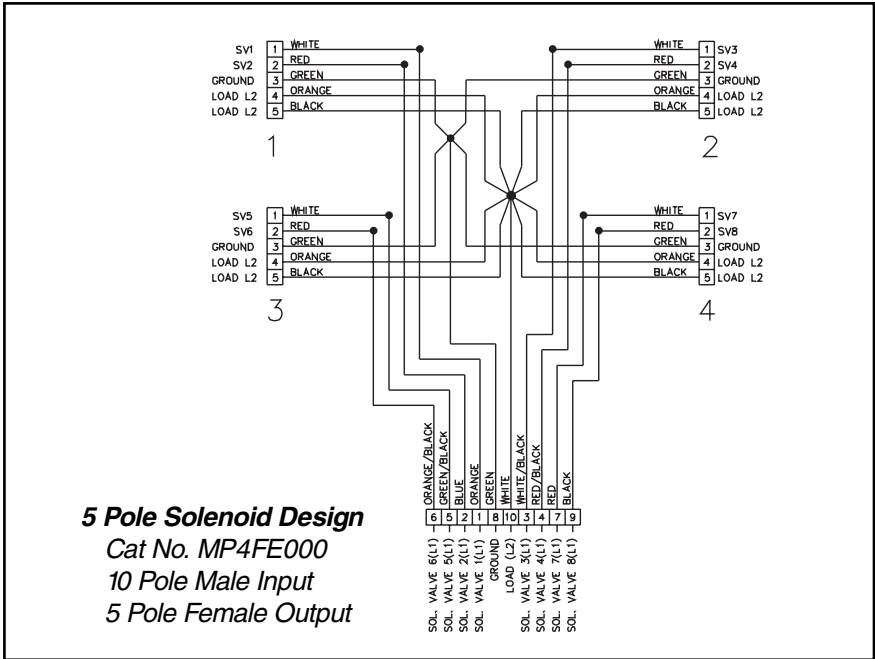


# MINI-PLEX 5 POLE SOLENOID DESIGN

PORTS	OUTPUT RECEPTACLE FEMALE	COLOR CODE	INPUT RECEPTACLE MALE	COLOR CODE	RATING (MAX.)	PART NUMBER
4		1. White 2. Red 3. Green 4. Orange 5. Black		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	7A	MP4FE000

Note: Stainless steel shells available — consult factory.

## WIRING DIAGRAM





# MINI-PLEX PART NUMBER MATRIX








DESCRIPTION	NO. OF PORTS	CROUSE-HINDS PART NUMBER	OUTPUT RECEPTACLE	INPUT RECEPTACLE	FACE VIEW FEMALE
3-Pole Mini-Line Parallel	4	MP4FA000	3 Pole (F)	6 Pole (M)	
	6	MP6FA000	3 Pole (F)	8 Pole (M)	
	8	MP8FA000	3 Pole (F)	10 Pole (M)	
3-Pole Mini-Line Series	4	MP4FB000	3 Pole (F)	3 Pole (M)	
	6	MP6FB000	3 Pole (F)	3 Pole (M)	
	8	MP8FB000	3 Pole (F)	3 Pole (M)	
3-Pole Mini-Line with LED Indicators for Power and Signal	4	MP4FC000	3 Pole (F)	7 Pole (M)	
	6	MP6FC000	3 Pole (F)	9 Pole (M)	
	8	MP8FC000	3 Pole (F)	12 Pole (M)	
4-Pole Mini-Line 3 Wire	4	MP4FD000	4 Pole (F)	6 Pole (M)	
	6	MP6FD000	4 Pole (F)	8 Pole (M)	
	8	MP8FD000	4 Pole (F)	10 Pole (M)	
5-Pole Mini-Line for Solenoids	4	MP4FE000	5 Pole (F)	10 Pole (M)	

## PIN ROTATION INPUT RECEPTACLE COLOR CODE




### COLOR CODING CHART (FACE VIEW MALE)

3 Pole	4 Pole	5 Pole	6 Pole	7 Pole	8 Pole	9 Pole	10 Pole	12 Pole
1. Green 2. Black 3. White	1. Black 2. White 3. Red 4. Green	1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue (Style I)	1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	1. Orange 2. Blue 3. Red-Black 4. Green-Black 5. White 6. Red 7. Green 8. White-Black 9. Black	1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Blue-Black 8. Black-White 9. Green 10. Red 11. White 12. Black








# MINI-PLEX FEMALE INPUT PLUG

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER	FOR USE WITH
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	6' 12' 20' 25' 30'	5000109-4 5000109-5 5000109-308 5000109-309 5000109-310	MP4FB000 MP6FB000 MP8FB000
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 6A	18	6' 12' 20' 25' 30'	5000120-4 5000120-5 5000120-308 5000120-309 5000120-310	MP4FA000 MP4FD000
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	6' 12' 20' 25' 30'	X8988-4 X8988-5 X8988-69 X8988-70 X8988-71	MP4FC000
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	6' 12' 20' 25' 30'	X8989-4 X8989-5 X8989-69 X8989-70 X8989-71	MP6FA000 MP6FD000
9		1. Orange 2. Blue 3. Red-Black 4. Green-Black 5. White 6. Red 7. Green 8. White-Black 9. Black	600V, 7A	16	6' 12' 20' 25' 30'	X8990-4 X8990-5 X8990-69 X8990-70 X8990-71	MP6FC000
10		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	600V, 7A	16	6' 12' 20' 25' 30'	X8991-4 X8991-5 X8991-69 X8991-70 X8991-71	MP8FA000 MP8FD000 MP4FE000
12		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Blue-Black 8. Black-White 9. Green 10. Red 11. White 12. Black	600V, 7A	16	6' 12' 20' 25' 30'	X8992-4 X8992-5 X8992-69 X8992-70 X8992-71	MP8FC000

# MINI-PLEX MALE TO FEMALE OUTPUT EXTENSIONS

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT MALE TO STRAIGHT FEMALE	MALE RIGHT ANGLE TO FEMALE STRAIGHT
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	1.5'	5000109-307	5000109-315
					3'	5000109-25	5000109-316
					6'	5000109-26	5000109-317
					12'	5000109-27	5000109-4088
					15'	5000109-265	5000109-4210
					20'	5000109-312	5000109-4211
					25'	5000109-313	5000109-4212
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	1.5'	5000110-307	5000110-315
					3'	5000110-25	5000110-316
					6'	5000110-26	5000110-317
					12'	5000110-27	5000110-4097
					15'	5000110-4026	5000110-4096
					20'	5000110-4008	5000110-4098
					25'	5000110-4050	5000110-4099
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	1.5'	5000111-307	5000111-315
					3'	5000111-25	5000111-316
					6'	5000111-26	5000111-317
					12'	5000111-27	5000111-4219
					15'	5000111-211	5000111-4220
					20'	5000111-36	5000111-4221
					25'	5000111-4044	5000111-4222
30'	5000111-4120	5000111-4223					

# MINI-PLEX MALE TO FEMALE INPUT EXTENSIONS

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSION	FOR USE WITH
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	6' 12' 20' 25' 30'	5000109-26 5000109-27 5000109-312 5000109-313 5000109-314	MP4FB000 MP6FB000 MP8FB000
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18	6' 12' 20' 25' 30'	5000120-26 5000120-27 5000120-312 5000120-313 5000120-314	MP4FA000 MP4FD000
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	6' 12' 20' 25' 30'	X8988-34 X8988-35 X8988-73 X8988-74 X8988-75	MP4FC000
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	6' 12' 20' 25' 30'	X8989-34 X8989-35 X8989-73 X8989-74 X8989-75	MP6FA000 MP6FD000
9		1. Orange 2. Blue 3. Red-Black 4. Green-Black 5. White 6. Red 7. Green 8. White-Black 9. Black	600V, 7A	16	6' 12' 20' 25' 30'	X8990-34 X8990-35 X8990-73 X8990-74 X8990-75	MP6FC000
10		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	600V, 7A	16	6' 12' 20' 25' 30'	X8991-34 X8991-35 X8991-73 X8991-74 X8991-75	MP8FA000 MP8FD000 MP4FE000
12		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Blue-Black 8. Black-White 9. Green 10. Red 11. White 12. Black	600V, 7A	16	6' 12' 20' 25' 30'	X8992-34 X8992-35 X8992-73 X8992-74 X8992-75	MP8FC000

# SPECIFICATIONS MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – “PARALLEL WIRED”

- Parallel Wired Circuit
- 4, 6, 8 Ports Available
- Female Output Receptacles
- Dual Key Micro-Mini Configuration
- Top or Side Mount Outputs
- Male Input Receptacle (Side Mount)
- Input Cable Option (Top Mount)
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals



File #E169897

### Electrical Data

Contact Resistance:	≤ 5mΩ
Current Rating:	3 AMPS
Voltage Rating:	300 VAC

### Environmental Data

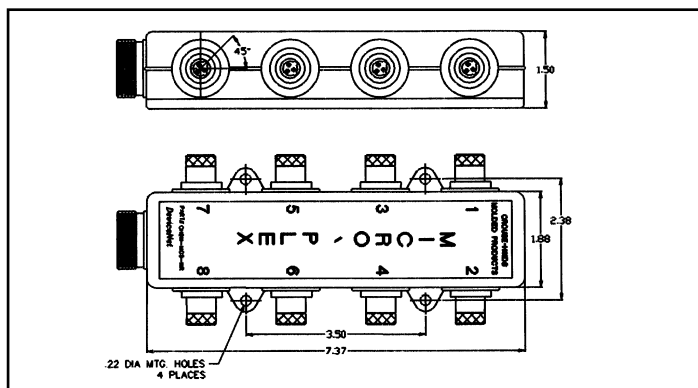
Protection:	NEMA 1, 3, 4, 6P and 13; IEC IP 68
Temperature Range:	-20°C to +105°C
High Pressure Water Test:	1200 PSI spray

### Material Data

Body:	Yellow, PET (black optional)
Insert:	Black, PUR
Input Cable:	Optional — consult factory
Contacts:	Machined Brass
Contact Plating:	24 karat Gold over Nickel
Receptacle Shell:	Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

Note: see pages 192-193 for dimensions



# MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – “PARALLEL WIRED”

PORTS	FACE VIEW FEMALE	COLOR CODE	CABLE LENGTH (METERS)	TOP MOUNT PART NUMBER	SIDE MOUNT PART NUMBER
4		1. Green 2. Red-Black 3. Red-White	5 10	MMAT4F3A050M MMAT4F3A100M	MMAS4F3A000*
6		1. Green 2. Red-Black 3. Red-White	5 10	MMAT6F3A050M MMAT6F3A100M	MMAS6F3A000*
8		1. Green 2. Red-Black 3. Red-White	5 10	MMAT8F3A050M MMAT8F3A100M	MMAS8F3A000*

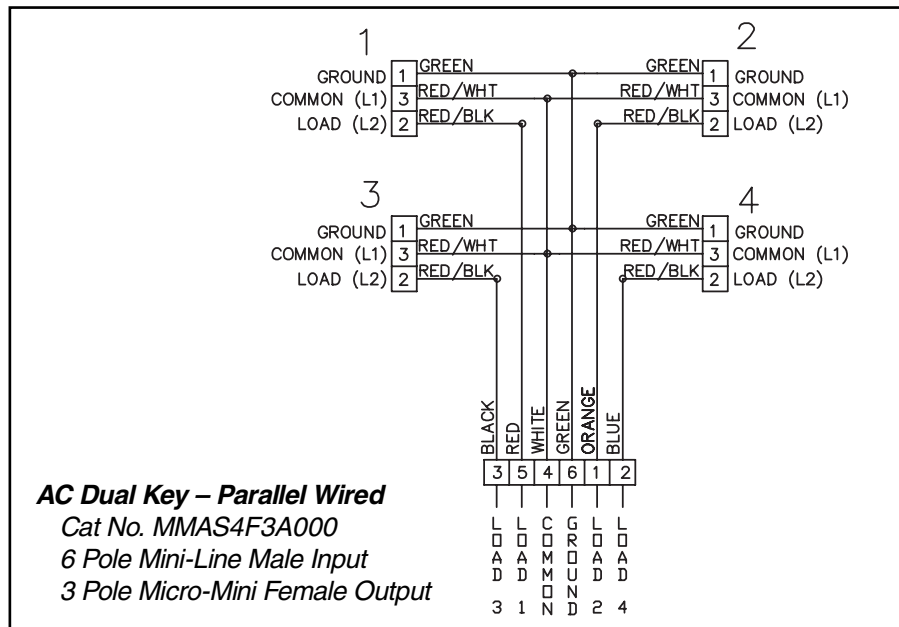
\* Side mount micro-plex utilize male input receptacle

Note: Special input cable lengths available for top and side mount devices upon request — consult factory.

Male input plug option available for top and side mount devices — consult factory.

Stainless steel hardware available upon request — consult factory.

## WIRING DIAGRAM AC PARALLEL





# SPECIFICATIONS MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – “SERIES WIRED”

- Series Wired Circuit
- 4, 6, 8 Ports Available
- Female Output Receptacles
- Dual Key Micro-Mini Configuration
- Top or Side Mount Outputs
- Male Input Receptacle (Side Mount)
- Input Cable Option (Top Mount)
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals



File #E169897

### Electrical Data

Contact Resistance:	≤ 5mΩ
Current Rating:	3 AMPS
Voltage Rating:	300 VAC

### Environmental Data

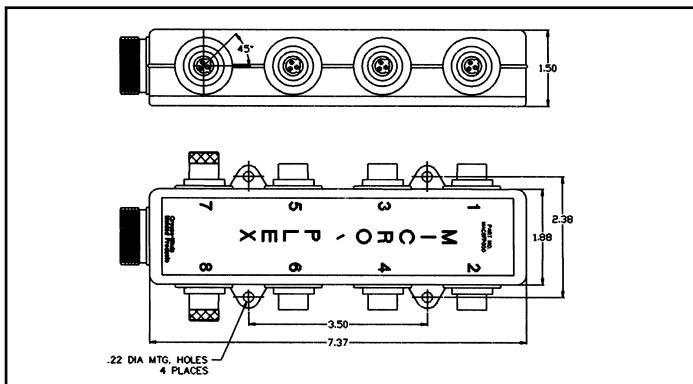
Protection:	NEMA 1, 3, 4, 6P and 13; IEC IP 68
Temperature Range:	-20°C to +105°C
High Pressure Water Test:	1200 PSI spray

### Material Data




Body:	Yellow, PET (black optional)
Insert:	Black, PUR
Input Cable:	Optional — consult factory
Contacts:	Machined Brass
Contact Plating:	24 karat Gold over Nickel
Receptacle Shell:	Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

Note: see pages 192-193 for dimensions



# MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – “SERIES WIRED”

PORTS	FACE VIEW FEMALE	COLOR CODE	CABLE LENGTH (METERS)	TOP MOUNT PART NUMBER	SIDE MOUNT PART NUMBER
4		1. Green 2. Red-Black 3. Red-White	5 10	MMAT4F3B050M MMAT4F3B100M	MMAS4F3B000*
6		1. Green 2. Red-Black 3. Red-White	5 10	MMAT6F3B050M MMAT6F3B100M	MMAS6F3B000*
8		1. Green 2. Red-Black 3. Red-White	5 10	MMAT8F3B050M MMAT8F3B100M	MMAS8F3B000*

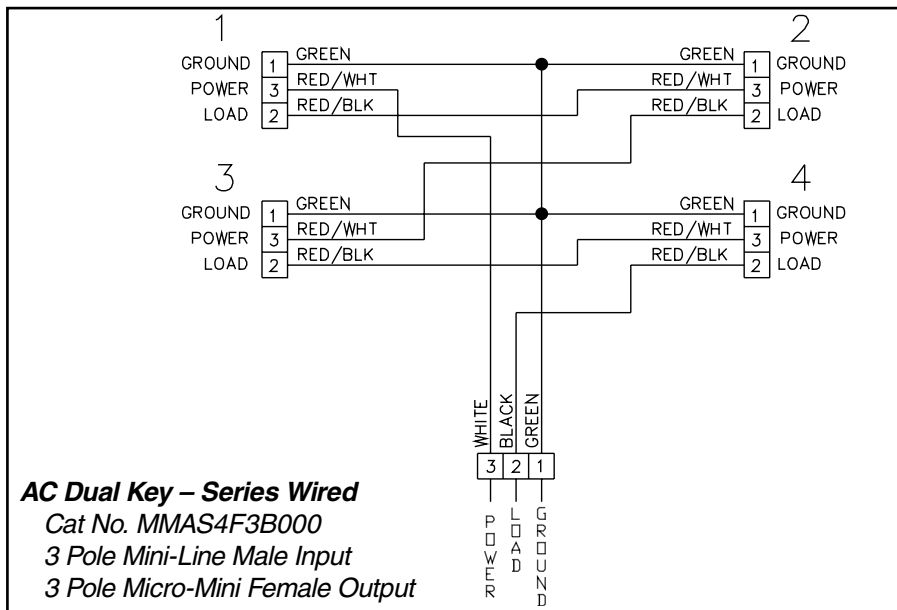
\* Side mount micro-plex utilize male input receptacle

Note: Special input cable lengths available for top and side mount devices upon request — consult factory.

Male input plug option available for top and side mount devices — consult factory.

Stainless steel hardware available upon request — consult factory.

## WIRING DIAGRAM AC SERIES



# SPECIFICATIONS MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – “LED”

- “LED” Wired Circuit
- 4, 6, 8 Ports Available
- Female Output Receptacles
- Dual Key Micro-Mini Configuration
- Top or Side Mount Outputs
- Male Input Receptacle (Side Mount)
- Input Cable Option (Top Mount)
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

CULUS:

File #E169897

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: 3 AMPS  
 Voltage Rating: 120 VAC

### Environmental Data

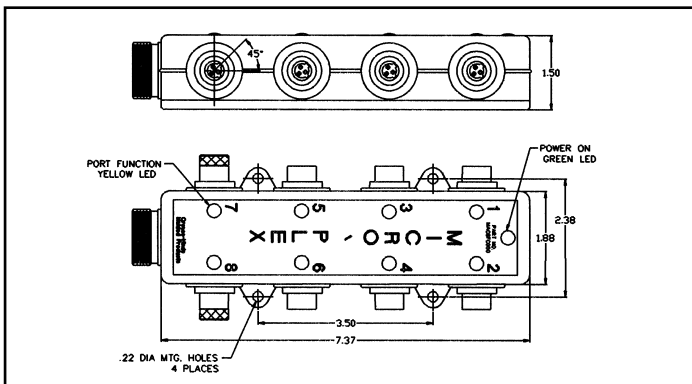
Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
 Temperature Range:  $-20^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$   
 High Pressure Water Test: 1200 PSI spray

### Material Data

Body: Yellow, PET (black optional)  
 Insert: Black, PUR  
 Input Cable: Optional — consult factory  
 Contacts: Machined Brass  
 Contact Plating: 24 karat Gold over Nickel  
 Receptacle Shell: Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

Note: see pages 192-193 for dimensions



# MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – “LED”

PORTS	FACE VIEW FEMALE	COLOR CODE	CABLE LENGTH (METERS)	TOP MOUNT PART NUMBER	SIDE MOUNT PART NUMBER
4		1. Green 2. Red-Black 3. Red-White	5 10	MMAT4F3L050M MMAT4F3L100M	MMAS4F3L000*
6		1. Green 2. Red-Black 3. Red-White	5 10	MMAT6F3L050M MMAT6F3L100M	MMAS6F3L000*
8		1. Green 2. Red-Black 3. Red-White	5 10	MMAT8F3L050M MMAT8F3L100M	MMAS8F3L000*

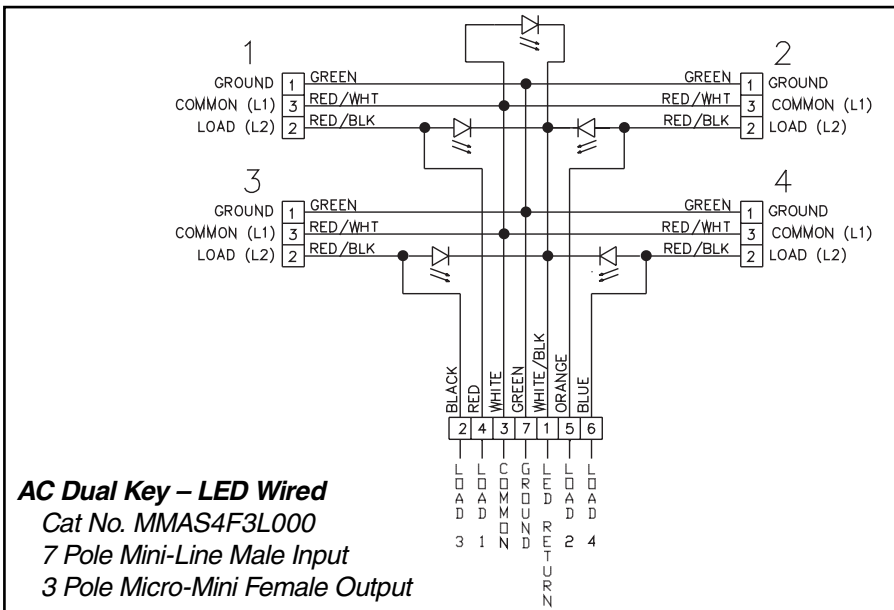
\* Side mount micro-plex utilize male input receptacle

Note: Special input cable lengths available for top and side mount devices upon request — consult factory.

Male input plug option available for top and side mount devices — consult factory.

Stainless steel hardware available upon request — consult factory.

## WIRING DIAGRAM AC LED



# SPECIFICATIONS MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – “PARALLEL” WIRING

- Parallel Wired Circuit
- 4, 6, 8 Ports Available
- Female Output Receptacles
- DC DIN Micro-Mini Configuration
- Top or Side Mount Outputs
- Male Input Receptacle (Side Mount)
- Input Cable Option (Top Mount)
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals



File #E169897

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: 3 AMPS  
 Voltage Rating: 300 VDC

### Environmental Data

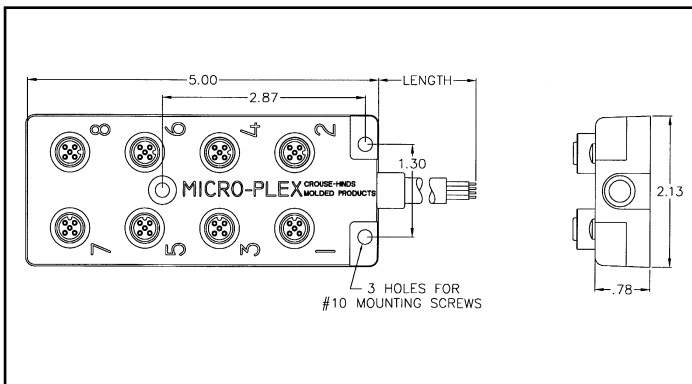
Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
 Temperature Range:  $-20^{\circ}C$  to  $+105^{\circ}C$   
 High Pressure Water Test: 1200 PSI spray

### Material Data

Body: Yellow, PET (black optional)  
 Insert: Black, PUR  
 Input Cable: Optional — consult factory  
 Contacts: Machined Brass  
 Contact Plating: 24 karat Gold over Nickel  
 Receptacle Shell: Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

Note: see pages 192-193 for dimensions



# SELECTION GUIDE MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – “PARALLEL” WIRING

PORTS	FACE VIEW FEMALE	COLOR CODE	CABLE LENGTH (METERS)	TOP MOUNT PART NUMBER	SIDE MOUNT PART NUMBER
4		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT4F4A050M MMDT4F4A100M	MMDS4F4A000*
6		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT6F4A050M MMDT6F4A100M	MMDS6F4A000*
8		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT8F4A050M MMDT8F4A100M	MMDS8F4A000*

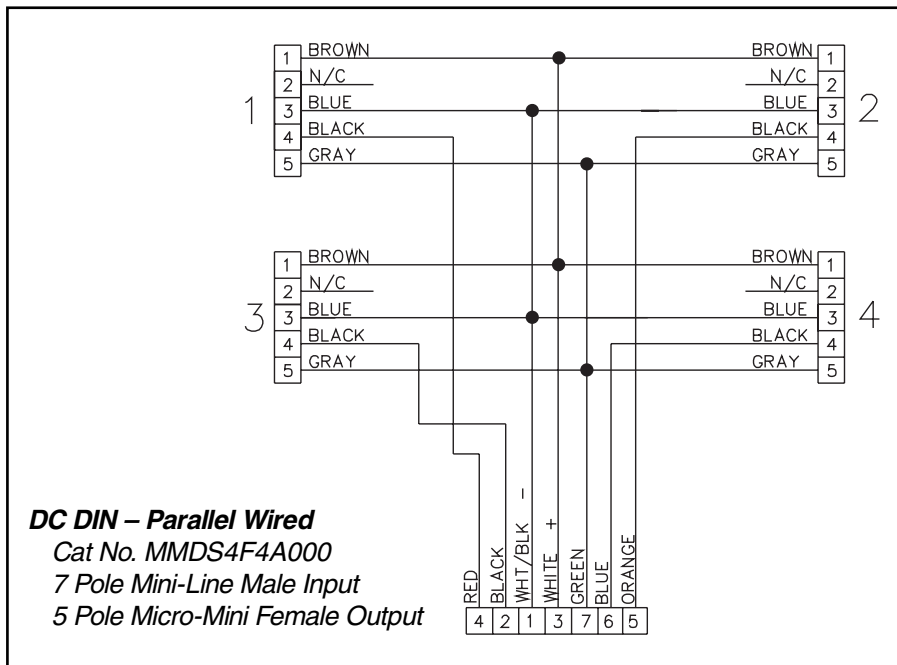
\* Side mount micro-plex utilize male input receptacle

Note: Special input cable lengths available for top and side mount devices upon request — consult factory.

Male input plug option available for top and side mount devices — consult factory.

Stainless steel hardware available upon request — consult factory.

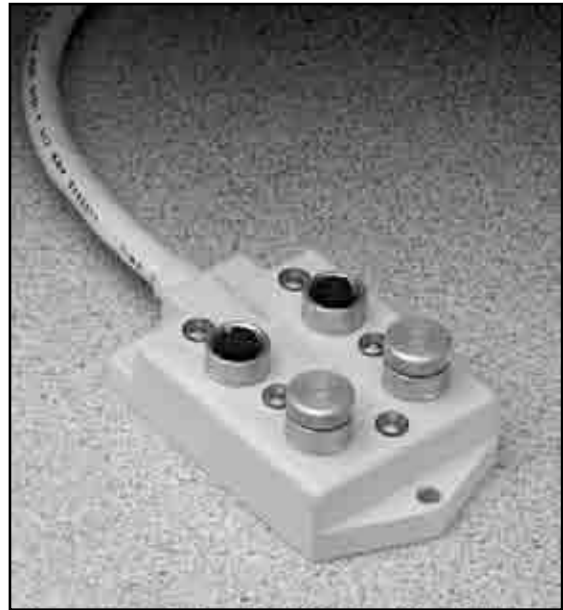
## WIRING DIAGRAM DC PARALLEL





# SPECIFICATIONS MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – LED WIRING “PNP”

- 4, 6, 8 Ports Available
- Female Output Receptacles
- DC DIN Micro-Mini Configuration
- Top or Side Mount Outputs
- Male Input Receptacle (Side Mount)
- Input Cable Option (Top Mount)
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals



File #E169897

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: 3 AMPS  
 Voltage Rating: 10-30 VDC

### Environmental Data

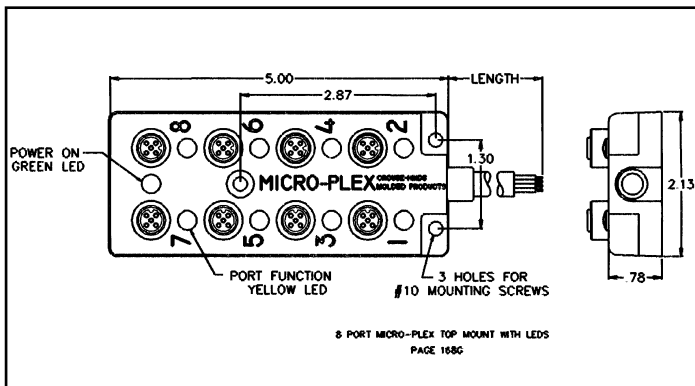
Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
 Temperature Range: -20°C to +105°C  
 High Pressure Water Test: 1200 PSI spray

### Material Data




Body: Yellow, PET (black optional)  
 Insert: Black, PUR  
 Input Cable: Optional — consult factory  
 Contacts: Machined Brass  
 Contact Plating: 24 karat Gold over Nickel  
 Receptacle Shell: Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

Note: see pages 192-193 for dimensions



# MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – LED WIRING “PNP”

PORTS	FACE VIEW FEMALE	COLOR CODE	CABLE LENGTH (METERS)	TOP MOUNT PART NUMBER	SIDE MOUNT PART NUMBER
4		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT4F4C050M MMDT4F4C100M	MMDS4F4C000*
6		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT6F4C050M MMDT6F4C100M	MMDS6F4C000*
8		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT8F4C050M MMDT8F4C100M	MMDS8F4C000*

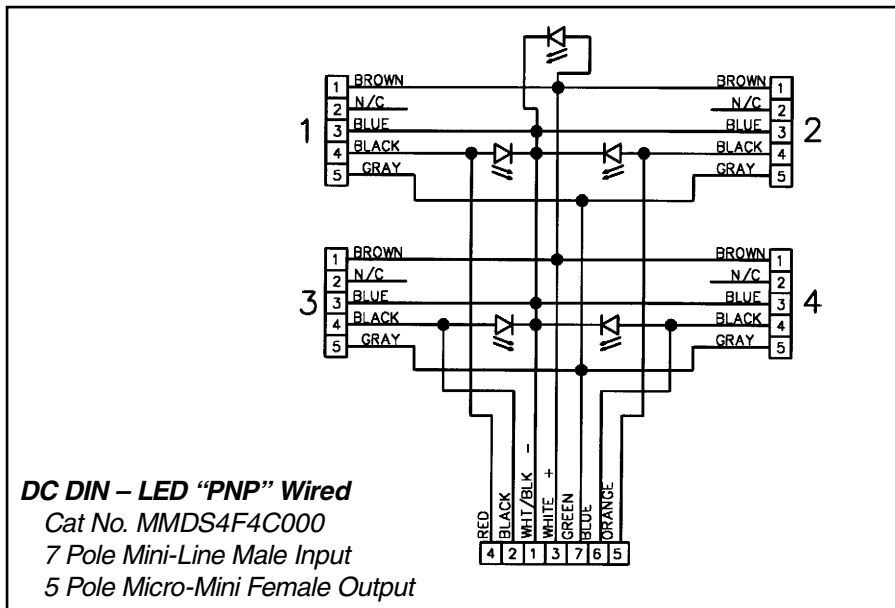
\* Side mount micro-plex utilize male input receptacle

Note: Special input cable lengths available for top and side mount devices upon request — consult factory.

Male input plug option available for top and side mount devices — consult factory.

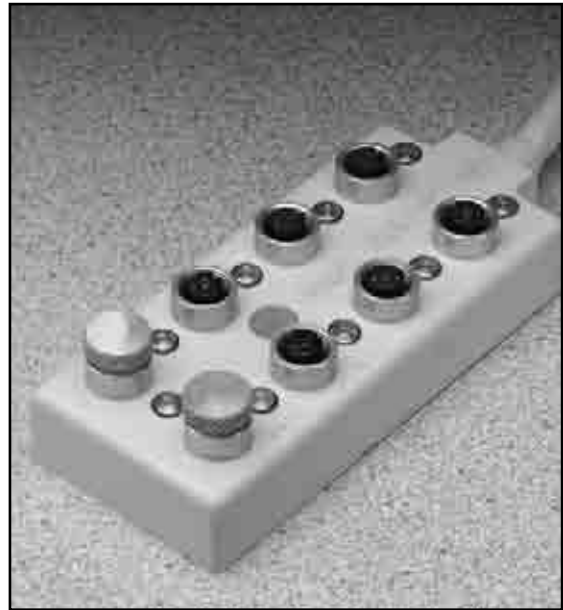
Stainless steel hardware available upon request — consult factory.

## WIRING DIAGRAM DC “PNP”



# SPECIFICATIONS MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – LED WIRING “NPN”

- 4, 6, 8 Ports Available
- Female Output Receptacles
- DC DIN Micro-Mini Configuration
- Top or Side Mount Outputs
- Male Input Receptacle (Side Mount)
- Input Cable Option (Top Mount)
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals



File #E169897

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
Current Rating: 3 AMPS  
Voltage Rating: 10-30 VDC

### Environmental Data

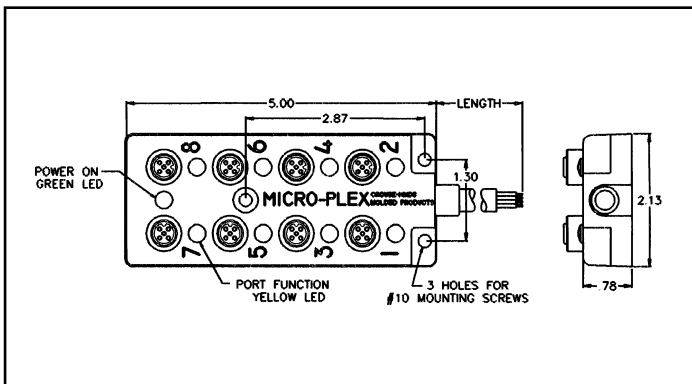
Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
Temperature Range:  $-20^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$   
High Pressure Water Test: 1200 PSI spray

### Material Data




Body: Yellow, PET (black optional)  
Insert: Black, PUR  
Input Cable: Optional — consult factory  
Contacts: Machined Brass  
Contact Plating: 24 karat Gold over Nickel  
Receptacle Shell: Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

Note: see pages 192-193 for dimensions



# MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – LED WIRING “NPN”

PORTS	FACE VIEW FEMALE	COLOR CODE	CABLE LENGTH (METERS)	TOP MOUNT PART NUMBER	SIDE MOUNT PART NUMBER
4		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT4F4N050M MMDT4F4N100M	MMDS4F4N000*
6		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT6F4N050M MMDT6F4N100M	MMDS6F4N000*
8		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT8F4N050M MMDT8F4N100M	MMDS8F4N000*

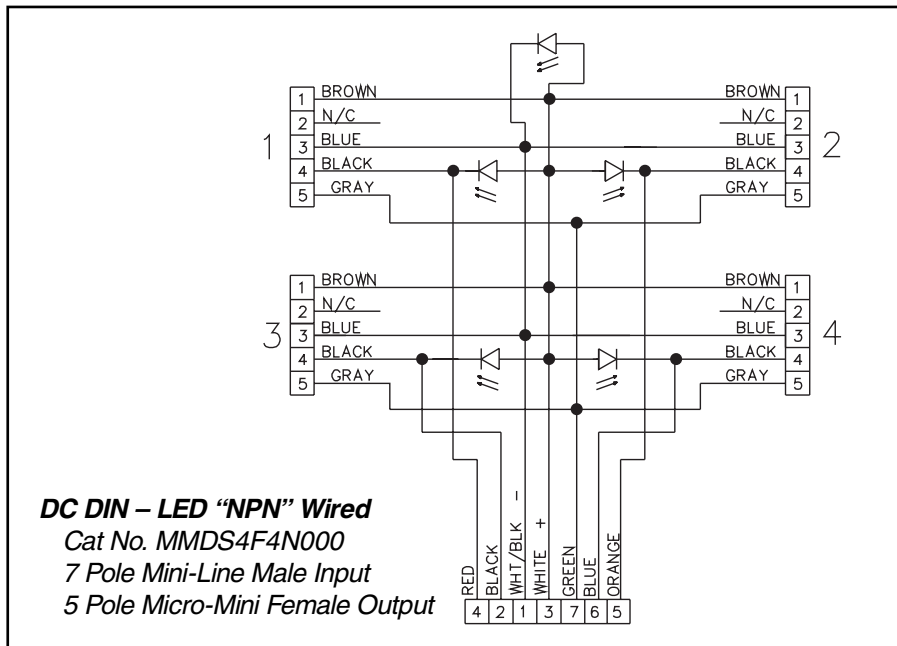
\* Side mount micro-plex utilize male input receptacle

Note: Special input cable lengths available for top and side mount devices upon request — consult factory.

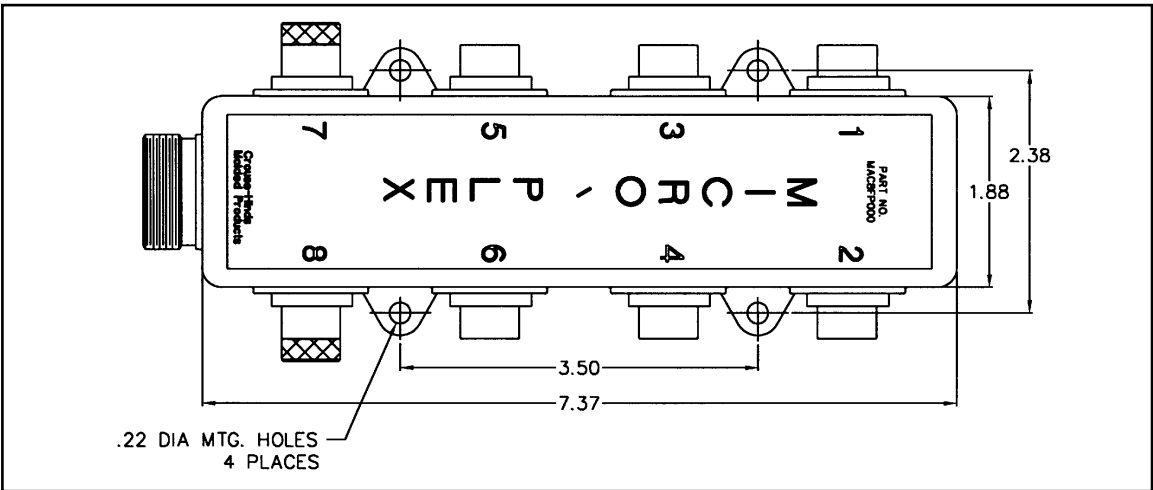
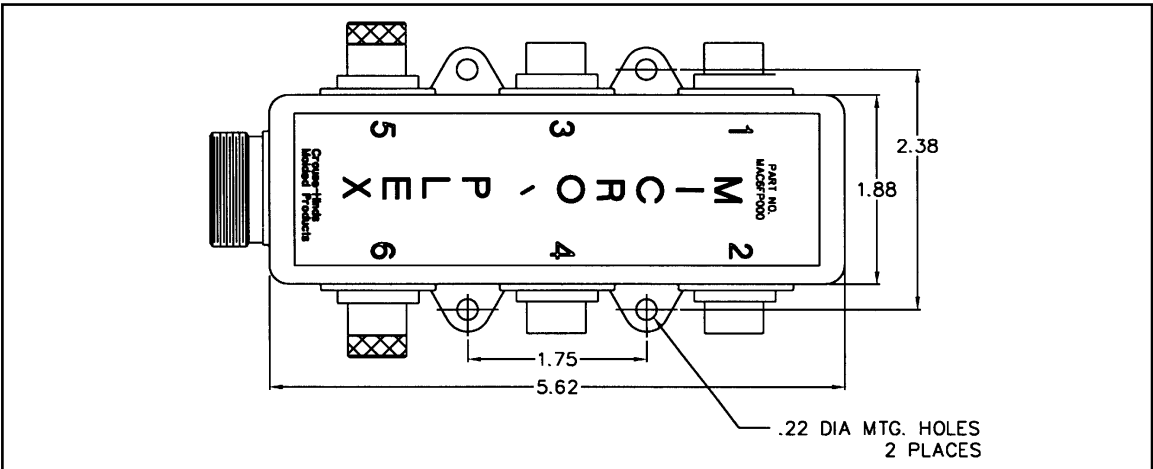
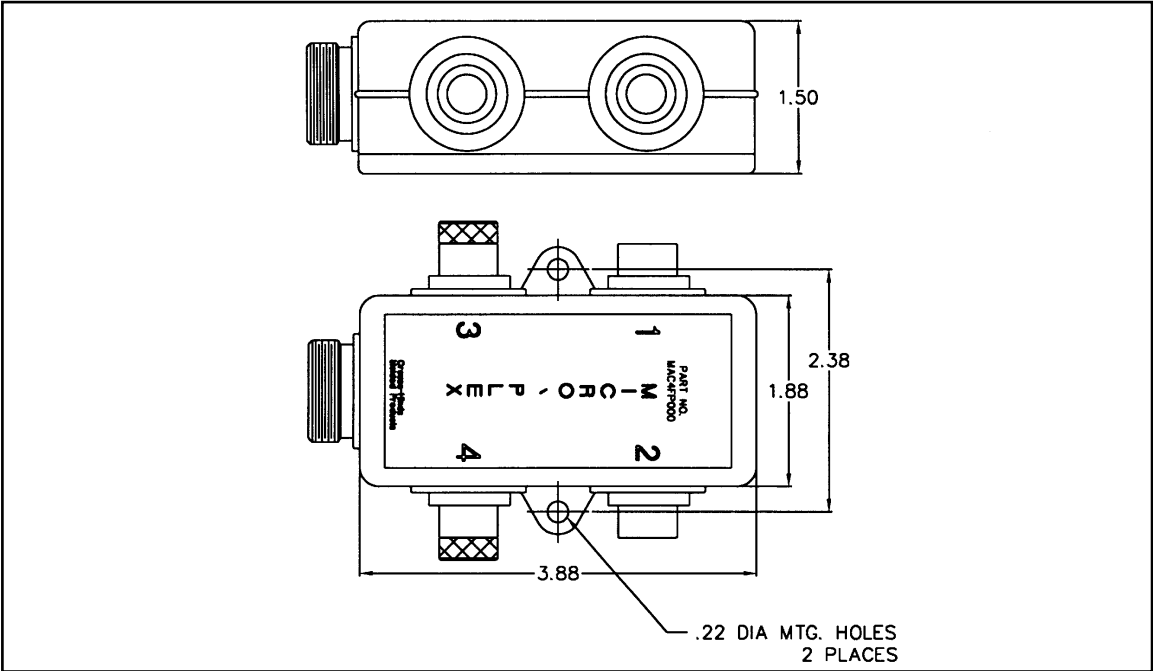
Male input plug option available for top and side mount devices — consult factory.

Stainless steel hardware available upon request — consult factory.

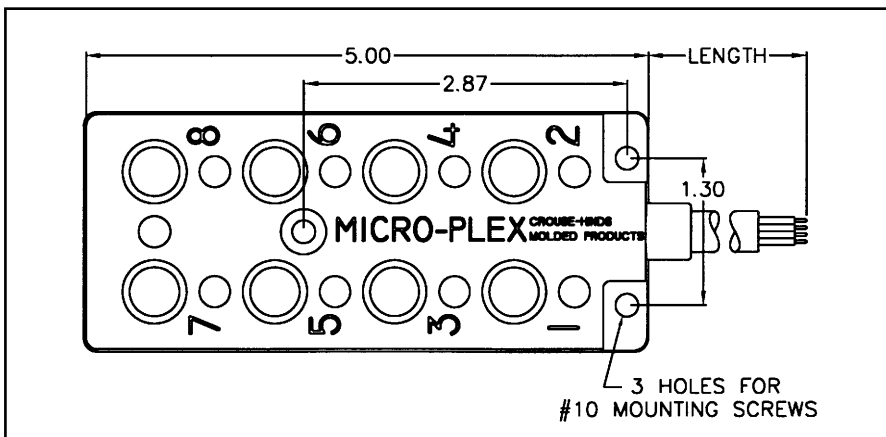
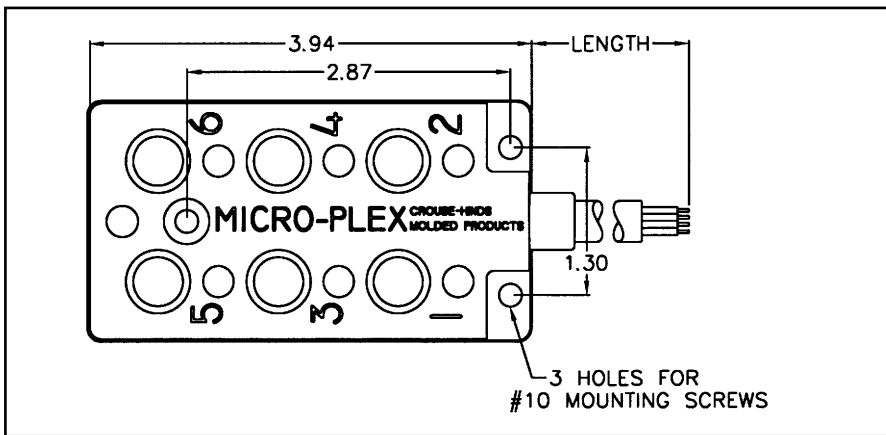
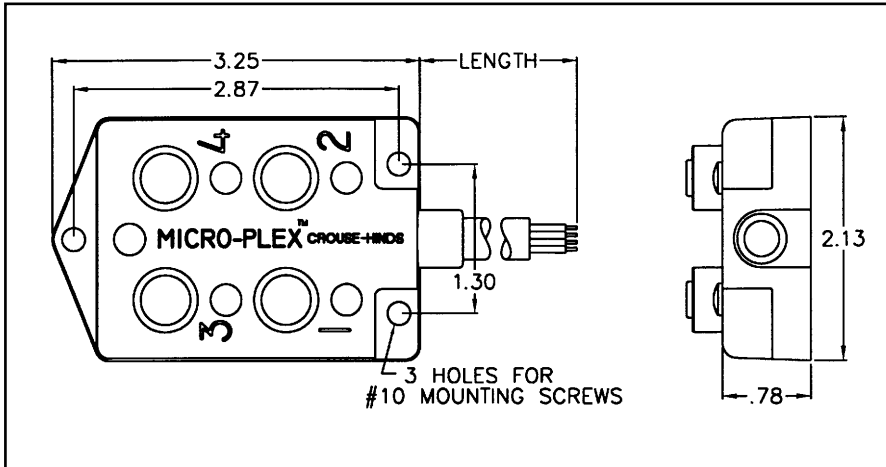
## WIRING DIAGRAM DC “NPN”



# DIMENSIONS MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – SIDE MOUNT



# DIMENSIONS MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – TOP MOUNT





# SPECIFICATIONS MINI-PLEX & MICRO-PLEX ACCESSORIES

- Machined Aluminum and Nylon
- Meets Current SAE #H1738-2 Specifications
- Metric and Standard Threading



## TECHNICAL DATA

### Environmental Data

Protection: IEC IP 65

### Material Data

Caps: Machined Aluminum or nylon  
 Gasket: Nitrile  
 Bead Chain: Stainless Steel

## MINI-PLEX CLOSURE CAPS

With Chain

**ALUMINUM  
INTERNAL THREAD**  
3316582-1

**NYLON  
INTERNAL THREAD**  
A600196-2

## MICRO-PLEX CLOSURE CAPS

With Chain  
Without Chain

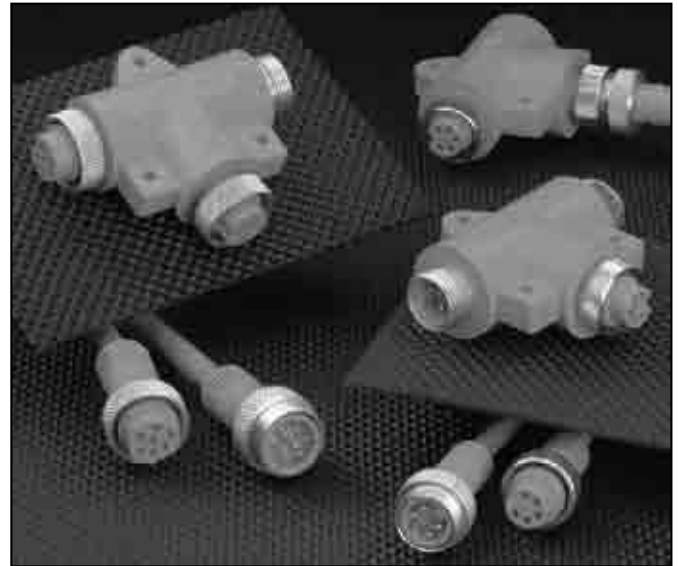
**DC DIN STYLE  
M12X1 EXTERNAL THREAD**  
5000117-73  
1463343

**DUAL KEY STYLE  
1/2-20 EXTERNAL THREAD**  
3463287  
1463402

# NETWORK PRODUCTS

**“THE  
TOUGH LINE  
FOR TOUGH  
JOBS”**

Crouse-Hinds offers a full line of miniature connector products specially designed to meet network physical layer specifications. These products were developed to meet DeviceNet™, SDS™ and Seriplex™ architecture.



## NETWORK CABLE PARAMETERS:

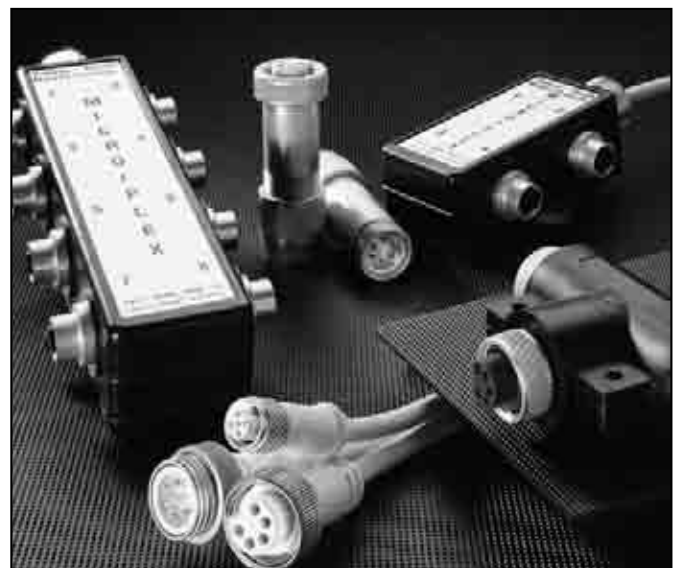
**DeviceNet:** Trunk cable requires gray PVC jacket with 2 shielded pairs (15 AWG - Power, 18 AWG - Data) with 18 AWG drain wire  
Drop cable requires yellow CPE jacket with 2 shielded pairs (22 AWG - Power, 24 AWG - Data) with 22 AWG drain wire

**SDS:** Trunk cable requires PVC jacket with 2 shielded pairs (16 AWG - Power, 22 AWG - Data) with 22 AWG drain wire.  
Drop cable requires PVC jacket with 2 shielded pairs (22 AWG - Power, 22 AWG - Data) with 22 AWG drain wire.

**Seriplex:** Trunk cable requires orange PVC jacket with 4 conductors (two 16 AWG, Two 22 AWG) with 22 AWG drain wire.  
Drop cable requires orange PVC jacket with 4 conductors (Two 18 AWG, Two 22 AWG) with 22 AWG drain wire

## CABLE ASSEMBLY PIN OUT/COLOR CODE (FUNCTION)

PIN #	DeviceNet™	SDS™	Seriplex™
1	Drain (Bus Shield)	Drain (Bus Shield)	Drain (Bus Shield)
2	Red (V+)	Brown (V+)	Red (V+)
3	Black (V-)	Blue (V-)	Black (V-)
4	White (Data +)	Black (Data +)	Blue (Clock)
5	Blue (Data -)	White (Data -)	White (Data)



DeviceNet is a trademark of Allen-Bradley.  
Seri-Plex is a trademark of Square D Company.  
SDS is a trademark of Honeywell Microswitch.

# TECHNICAL DATA NETWORK DROP ASSEMBLIES

## Agency Approvals:

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

## Electrical Data:

Contact Resistance:

≤ 5mΩ

Current Rating:

3 AMPS

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

## Environmental Data:

Protection:

NEMA 6P; IEC IP 68

Temperature Range:

-20°C to +80°C

Corrosion Resistance:

1000 hr. salt spray per MIL STD 202F

High Pressure Water Test:

1200 PSI spray

## Material Data:

Body:

TPE, Yellow

Insert:

PUR, Yellow (Micro-Mini)

Contact:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Diecast Zamak 5 with black epoxy coat

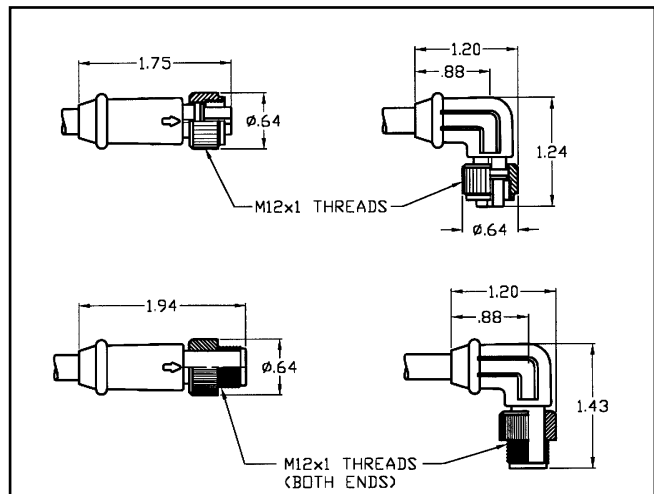
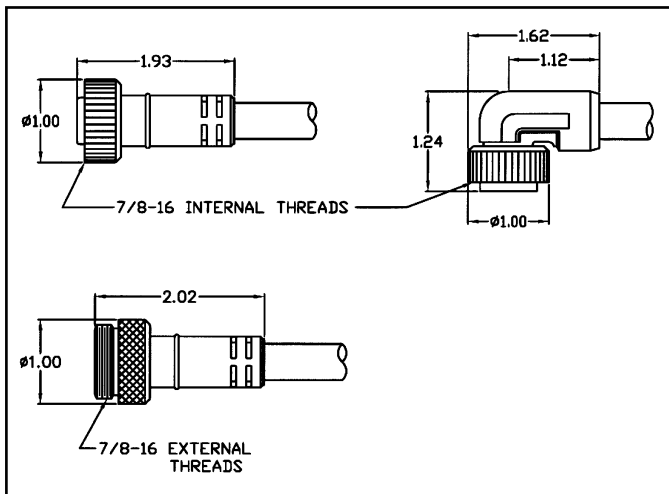
## NETWORK DROP ASSEMBLIES

PIN	DESCRIPTION	LENGTH	DEVICENET	SDS	SERIPLEX
5P	Mini Female	1M	CHDN-CE-C1	CHSDS-CE-C1	CHSPX5-CE-C1
5P	Mini Female	2M	CHDN-CE-C2	CHSDS-CE-C2	CHSPX5-CE-C1
5P	Mini Male In-Line	1M	CHDN-CA-C1	CHSDS-CA-C1	CHSPX5-CA-C1
5P	Mini Male In-Line	2M	CHDN-CA-C2	CHSDS-CA-C2	CHSPX5-CA-C2
5P	Micro Female	1M	CHDN-CG-C1	CHSDS-CG-C1	CHSPX5-CG-C1
5P	Micro Male In-Line	1M	CHDN-CC-C1	CHSDS-CC-C1	CHSPX5-CC-C1
5P	Micro Female-Male In-Line	1M	CHDN-ECG-C1	CHSDS-ECG-C1	CHSPX5-ECG-C1

Note: Special lengths and configurations available — consult factory.

Stainless steel hardware available — consult factory.

## DIMENSIONS



# TECHNICAL DATA NETWORK TRUNK ASSEMBLIES

## Agency Approvals:

UL Recognition: File #E169897  
 CSA Certification: File #LR13963

## Electrical Data:

Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: 8 AMPS  
 Voltage Rating: 300 VAC  
 Dielectric Withstand Voltage: 1600 VAC

## Environmental Data:

Protection Level: NEMA 6P; IEC IP 68  
 Temperature Range:  $-20^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$   
 Corrosion Resistance: 1000 hr. salt spray per MIL STD 202F  
 High Pressure Water Test: 1200 PSI spray

## Material Data:

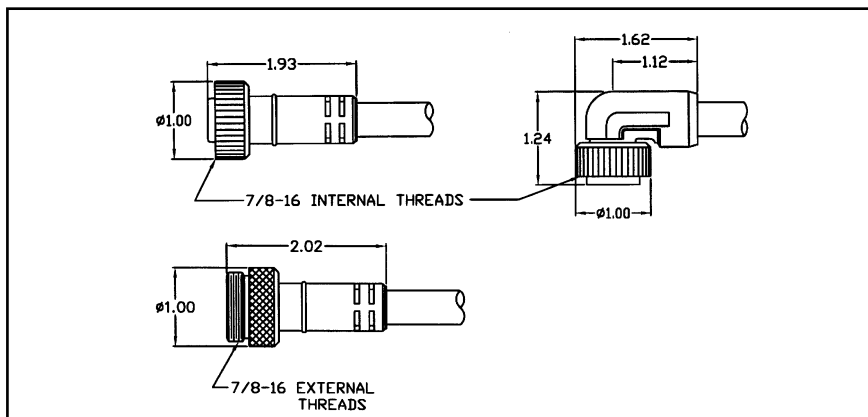
Body: PVC, Black  
 Contact: Machined Brass  
 Contact Plating: 30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
 Coupling Nut: Diecast Zamak 5 with black epoxy coat

## NETWORK TRUNK ASSEMBLIES

PIN	DESCRIPTION	LENGTH	DEVICENET	SDS	SERIPLEX
5P	ML Female	1M	CHDN-CE-T1	CHSDS-CE-T1	CHSPX5-CE-T1
5P	ML Female	2M	CHDN-CE-T2	CHSDS-CE-T2	CHSPX5-CE-T1
5P	ML Male In-Line	1M	CHDN-CA-T1	CHSDS-CA-T1	CHSPX5-CA-T1
5P	ML Male In-Line	2M	CHDN-CA-T2	CHSDS-CA-T2	CHSPX5-CA-T2
5P	ML Female to Male In-Line	1M	CHDN-EAE-T1	CHSDS-EAE-T1	CHSPX5-EAE-T1
5P	ML Female to Male In-Line	2M	CHDN-EAE-T2	CHSDS-EAE-T2	CHSPX5-EAE-T2

Note: Special lengths available upon request — consult factory.  
 Stainless steel hardware available — consult factory.

## DIMENSIONS



# TECHNICAL DATA NETWORK TAPPING TEE

## Agency Approvals:

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

## Electrical Data:

Contact Resistance:

≤ 5mΩ

Current Rating:

8 AMPS

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

## Environmental Data:

Protection Level:

NEMA 6P; IEC IP 68

Temperature Range:

-20°C to +105°C

High Pressure Water Test:

1200 PSI spray

## Material Data:

Body:

Santoprene™, Black

Insert:

Santoprene™, Black

Contact:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Diecast Zamak 5 with black epoxy coat

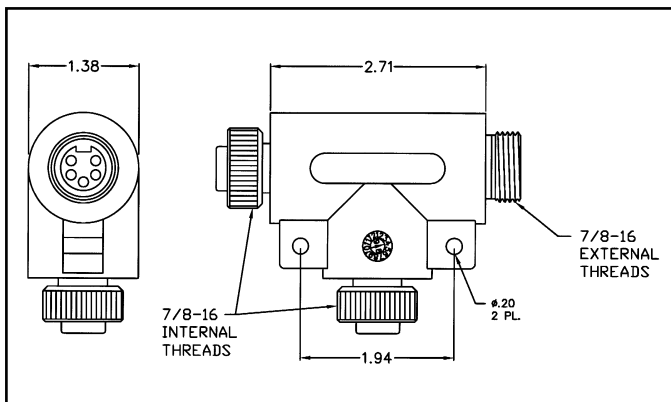
# NETWORK MALE TO FEMALE TO FEMALE TAPPING TEE

PIN	DESCRIPTION		DEVICENET	SDS	SERIPLEX
5P	ML Male-Female-Female	Right Tee	CHDN-TAER-N	CHSDS-TAER-N	CHSPX5-TAER-N
5P	ML Male-Female-Female	Left Tee	CHDN-TAEL-N	CHSDS-TAEL-N	CHSPX5-TAEL-N

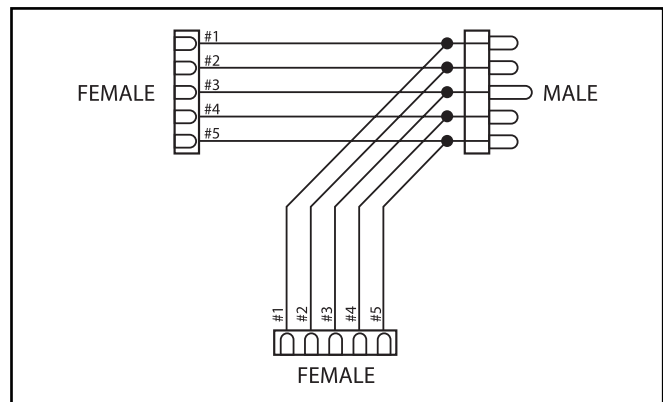
Note: PVC compound available upon request — consult factory.

Stainless steel hardware available — consult factory.

## DIMENSIONS



## WIRING DIAGRAM



Santoprene is a registered trademark of Advanced Elastomer Systems.

**COOPER** Crouse-Hinds

# TECHNICAL DATA NETWORK TERMINATOR ASSEMBLIES

**Agency Approvals:**

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

**Electrical Data:**

Contact Resistance:

≤ 5mΩ

Voltage Rating:

24 VDC

Load Resistance:

Device Net 121Ω

Seri-Plex 121Ω

SDS 120Ω

**Environmental Data:**

Protection Level:

NEMA 6P; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL STD 202F

High Pressure Water Test:

1200 PSI spray

**Material Data:**

Body:

Santoprene™, Black

Contact:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Diecast Zamak 5 with black epoxy coat

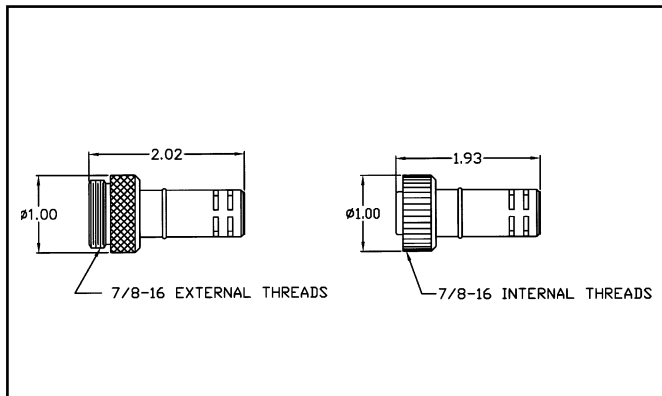
## NETWORK TERMINATOR ASSEMBLIES

PIN	DESCRIPTION	DEVICENET	SDS	SERIPLEX
5P	Mini Male In-Line	CHDN-SA-N	CHSDS-SA-N	CHSPX5-SA-N
5P	Mini Female	CHDN-SE-N	CHSDS-SE-N	CHSPX5-SE-N

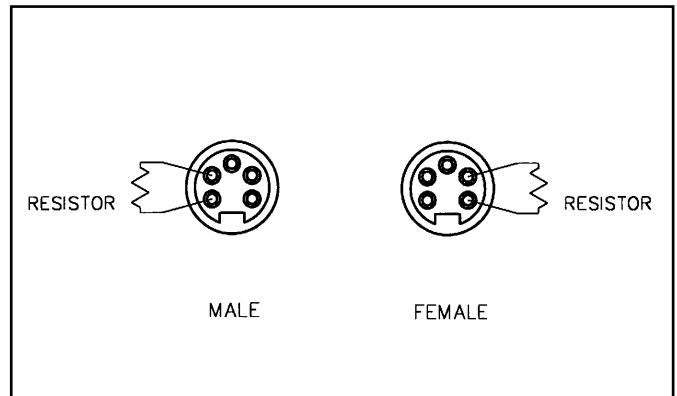
Note: PVC compound available upon request — consult factory.

Stainless steel hardware available — consult factory.

## DIMENSIONS



## WIRING DIAGRAM





# TECHNICAL DATA NETWORK MICRO-PLEX DISTRIBUTION SYSTEM

## Agency Approvals:

UL Recognition: File #E169897  
 CSA Certification: File #LR13963

## Electrical Data:

Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: 8 AMPS  
 Voltage Rating: 300 VAC

## Environmental Data:

Protection Level: NEMA 6P; IEC IP 68  
 Temperature Range:  $-20^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$   
 High Pressure Water Test: 1200 PSI spray

## Material Data:

Body: PET, Black  
 Insert: TPE, Black  
 Contact: Machined Brass  
 Contact Plating: 30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
 Receptacle Shell: Machined Aluminum with anodized finish

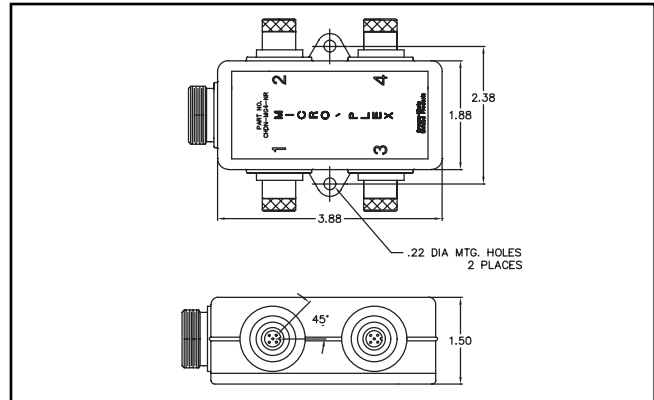
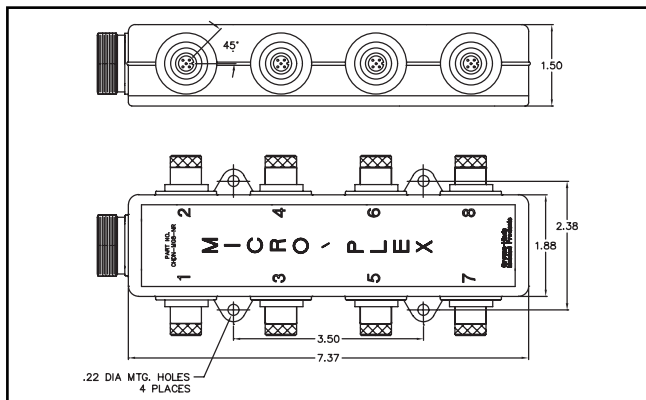
## NETWORK MICRO-PLEX ASSEMBLIES

PORT	DESCRIPTION	DEVICENET	SDS	SERIPLEX
4 Port	Micro-Plex with 2M Drop	CHDN-MG4-C2	CHSDS-MG4-C2	CHSPX5-MG4-C2
8 Port	Micro-Plex with 2M Drop	CHDN-MG8-C2	CHSDS-MG8-C2	CHSPX5-MG8-C2
8 Port	Micro-Plex with Male Recept.	CHDN-MG8-NR	CHSDS-MG8-NR	CHSPX5-MG8-NR

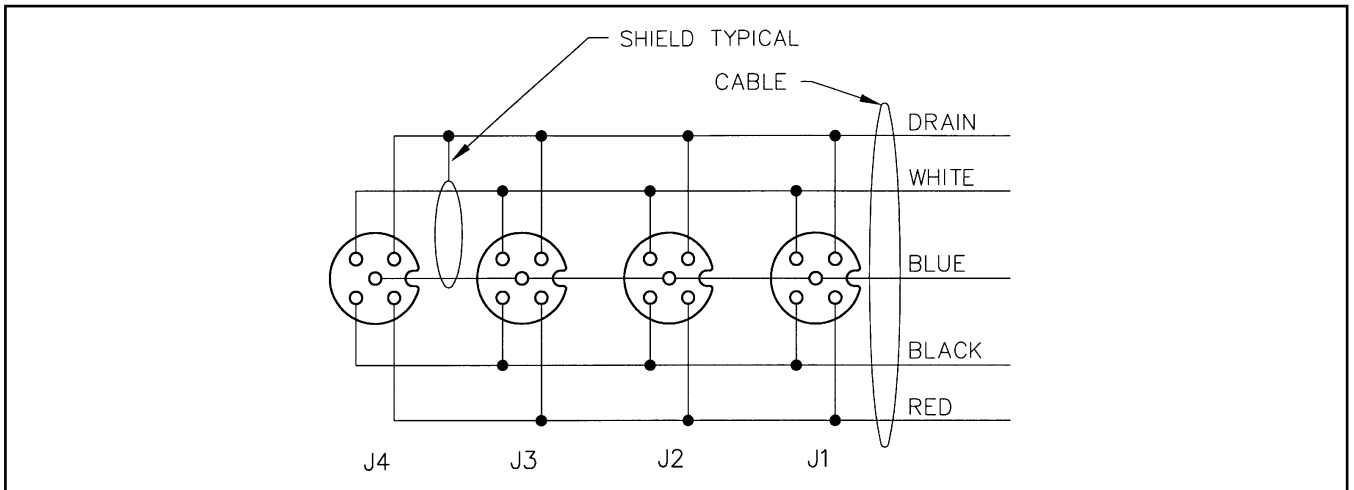
Note: Stainless steel hardware available — consult factory.

## DIMENSIONS

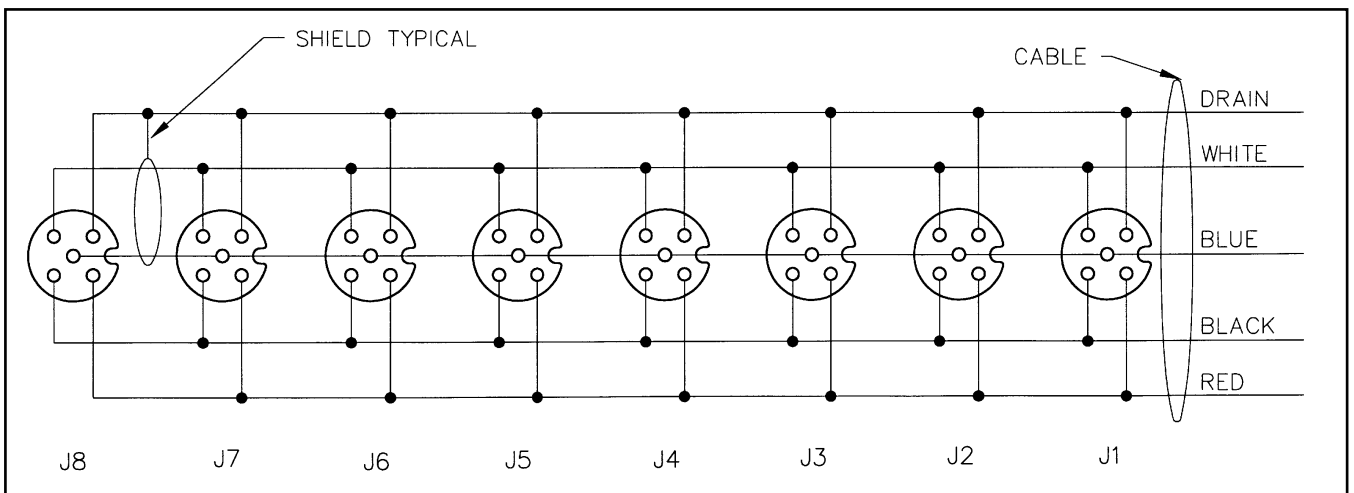
Note: see page 192



## WIRING DIAGRAM NETWORK MICRO-PLEX DISTRIBUTION SYSTEM (4 PORT)



## WIRING DIAGRAM NETWORK MICRO-PLEX DISTRIBUTION SYSTEM (8 PORT)



# NETWORK CUSTOM ORDERING INFORMATION

- Product part number created by combination of feature identifiers. (See matrix below.)
- Consult factory for price and availability.

**Example #1: CHDN-EAG-C2**

Mini-Line male in-line straight plug to Micro-Mini female straight plug on 2 meters of CPE drop cable.

**Example #2: CHDN-MG8-NR**

Micro-Plex with 8 female output ports with 1 male Mini-Line input receptacle (no cable).

CH NETWORK (PREFIX)	PRODUCT TYPE	PRODUCT CONFIGURATION	PORT/KEYWAY DESIGN	DASH (-)	CABLE TYPE	CABLE LENGTH	OPTIONS
	POSITION #1	POSITION #2 & #3	POSITION #4		POSITION #5	POSITION #6	POSITION #7
DN	A = Attachable (Trunk)	A = Mini-Line Male Straight	4 = 4 Port	-	C = CPE (Drop)	1 = 1 Meter	G = Gray Molding
	B = Attachable (Drop)	B = Mini-Line Male-In Line Right Angle	6 = 6 Port		D = PVC (Drop) Gray		X = Stainless Steel
SDS	C = Connector	C = Micro-Mini Male Straight	8 = 8 Port		F = Hi-Flex (Trunk)		
	D = Dustcap	D = Micro-Mini Male Right Angle	L = Left Key		H = Hi-Flex (Drop)		
SPX	E = Extension	E = Mini-Line Female Straight	R = Right Key		N = N/A	2 = 2 Meter	
	M = Micro-Plex	F = Mini-Line Female Right Angle			P = PVC (Drop)	3 = 3 Meter	
	N = Mini-Plex	G = Micro-Mini Female Straight			T = PVC (Trunk)	R = Receptacle	
	S = Seal (Terminator)	H = Micro-Mini Female Right Angle					
	T = Tapping Tee						

- Notes: 1. DeviceNet products utilize 5 pole configuration only.  
2. Extension part number require both ends identified, per above matrix (#2 & #3).

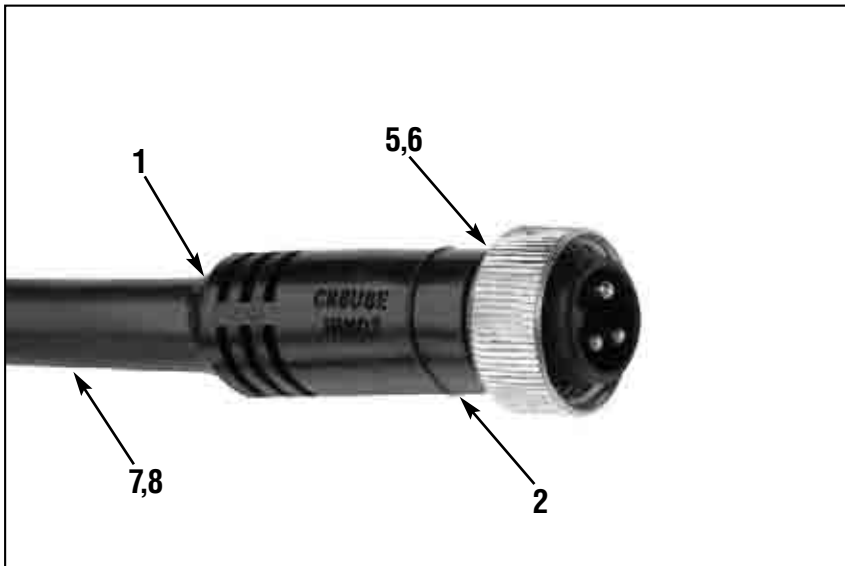
DN = DeviceNet Networks  
SDS = SDS Networks  
SPX = Seri-Plex Networks

# SUREMATE CONNECTORS

**“THE  
TOUGH LINE  
FOR TOUGH  
JOBS”**

Crouse-Hinds Suremate connectors are designed to provide dependable and economical service. They are molded of high-quality thermoplastic allowing a high power-to-size ratio, lightweight connector. The one-piece molded-to-cable design and double-face seal are unaffected by water, coolants or condensation.

Safe, two-way polarization thru an eccentric pin pattern and keyway guard against mismating. In addition, keyways for the 2, 3 and 4 pole connectors are different from each other. Suremate connectors for 2, 3 and 4 pole configurations are available in various lengths to suit specific application needs.



## FEATURES & BENEFITS

- 1 **Connector-to-cable molded junction** securely bonds for excellent reliability.
- 2 **Indicating arrow** for easy identification and proper keyway alignment.
- 3 **Superior female contact** design with steel sleeve to maintain contact withdrawal force.
- 4 **Gold plated female contact** for superior conductivity and chemical resistance.
- 5 **Vibration-resistant ratchet coupler** design prevents loosening in sever, high-vibration applications.
- 6 **Epoxy-coated coupler** that passes 1000-hour salt-spray test per MIL-STD-202F for exceptional corrosion resistance.
- 7 **Easy stripping PVC jacketed cable** with “fillerless” design allows fast stripping with simple hand tools.  
**Cable options** available for industrial applications with the following types:
  - **STOOW cable** with PVC jacket having oil resistant jacket and conductors
  - **SEOW “TPE” cable** with oil resistant jacket/conductors having elastomer jacket.
- 8 **Optional #12 AWG cable** available for increased ampacity rating up to 25 amps.
- 9 Every unit is **100% electrically tested** using state of the art automated test equipment.

# SPECIFICATIONS SURE-MATE PLUGS (2-4 POLE)

- Male and Female Plugs
- 14 AWG Standard Color Code
- 600V STOOW Cable
- Black PVC Molding
- Epoxy Coated Zinc Diecast Hardware
- Vibration Resistant Ratchet Design



## TECHNICAL DATA

### Agency Approvals



File #E169897

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
Current Rating: See chart with part number detail  
Voltage Rating: 600 VAC  
Dielectric Withstand Voltage: 2200 VAC

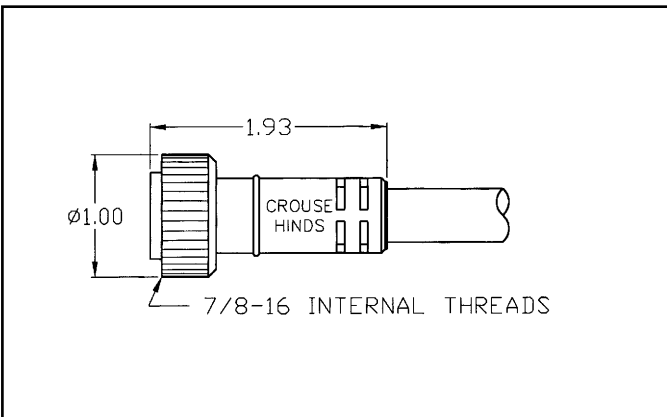
### Environmental Data

Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
Temperature Range:  $-20^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$   
Corrosion Resistance: 1000 hr. salt spray per MIL-STD-202F



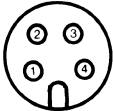
### Material Data

Body: Black, PVC  
Cable: Black, STOOW  
Contacts: Machined Brass  
Female Contact Plating: Gold plating  
Coupling Nut: Diecast Zamak 5 with black epoxy coat

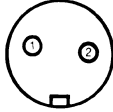

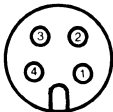
## DIMENSIONS



## **SURE-MATE FEMALE PLUG** WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

<b>POLES</b>	<b>FACE VIEW FEMALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>CABLE LENGTH</b>	<b>STRAIGHT</b>
2		1. White 2. Black	600V, 18A	14	6' 12'	5000101-17 5000101-18
3		1. Green 2. Black 3. White	600V, 18A	14	6' 12'	5000102-17 5000102-18
4		1. Black 2. White 3. Red 4. Green	600V, 15A	14	6' 12'	5000104-17 5000104-18

## **SURE-MATE MALE PLUG** WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

<b>POLES</b>	<b>FACE VIEW MALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>CABLE LENGTH</b>	<b>STRAIGHT</b>
2		1. White 2. Black	600V, 18A	14	6' 12'	5000101-19 5000101-20
3		1. Green 2. Black 3. White	600V, 18A	14	6' 12'	5000102-19 5000102-20
4		1. Black 2. White 3. Red 4. Green	600V, 15A	14	6' 12'	5000104-19 5000104-20

Note: Special lengths available upon request — consult factory.  
 Nylon and stainless steel hardware available upon request — consult factory.  
 SEOW cable available upon request — consult factory.  
 Optional 12 AWG available upon request — consult factory.



# SPECIFICATIONS SURE-MATE RECEPTACLES (2-4 POLE)

- Male and Female Receptacles
- 14 AWG Standard Color Code
- Single Conductor PVC Jacket
- Zinc Diecast Hardware



## TECHNICAL DATA

### Agency Approvals



File #E 169897

### Electrical Data

Contact Resistance:	$\leq 5m\Omega$
Current Rating:	See chart with part number detail
Voltage Rating:	600 VAC
Dielectric Withstand Voltage:	2200 VAC

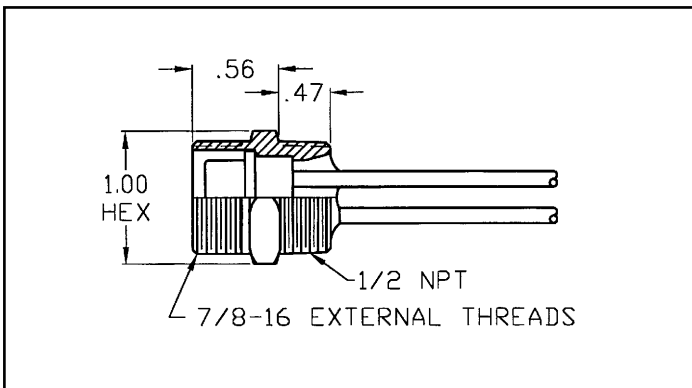
### Environmental Data

Protection:	NEMA 1, 3, 4, 6P and 13; IEC IP 68
Temperature Range:	-20°C to +105°C
Corrosion Resistance:	1000 hr. salt spray per MIL-STD-202F



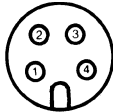
### Material Data

Insert:	Black, santoprene
Pigtail Leads:	MTW PVC jacket
Contacts:	Machined Brass
Female Contact Plating:	Gold plating
Receptacle Shell:	Diecast Zamak 5 with zinc plate

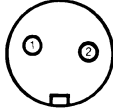

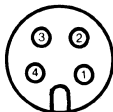
## DIMENSIONS



## **SURE-MATE FEMALE RECEPTACLES** WITH **ZINC DIECAST** RECEPTACLE SHELL

<b>POLES</b>	<b>FACE VIEW FEMALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>LEAD LENGTH</b>	<b>PART NUMBER</b>
2		1. White 2. Black	600V, 18A	14	10"	5000101-21
3		1. Green 2. Black 3. White	600V, 18A	14	10"	5000102-21
4		1. Black 2. White 3. Red 4. Green	300V, 15A	14	10"	5000104-21

## **SURE-MATE MALE RECEPTACLES** WITH **ZINC DIECAST** RECEPTACLE SHELL

<b>POLES</b>	<b>FACE VIEW MALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>LEAD LENGTH</b>	<b>PART NUMBER</b>
2		1. White 2. Black	600V, 18A	14	10"	5000101-22
3		1. Green 2. Black 3. White	600V, 18A	14	10"	5000102-22
4		1. Black 2. White 3. Red 4. Green	300V, 15A	14	10"	5000104-22

Note: Special lead lengths available upon request — consult factory.  
 Nylon and stainless steel hardware available upon request — consult factory.  
 Optional 12 AWG available upon request — consult factory.

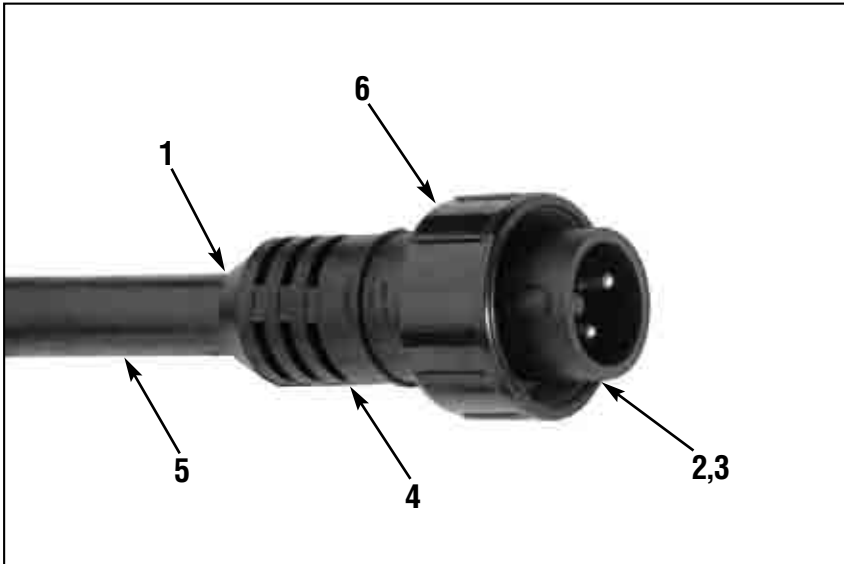


# CHANGE-OUT CONNECTORS

**“THE  
TOUGH LINE  
FOR TOUGH  
JOBS”**

Crouse-Hinds Change-Out connectors provide superior service for your tough industrial environments. Our factory molded-to-cable design provides rugged, sealed construction. The resilient one-piece molded construction shrugs off heavy physical abuse while maintaining an environmental seal.

Cable and hardware options allow easy design improvements to meet your application requirements. Connector and receptacle pigtail lead lengths available to meet your specific requirements upon request.



## FEATURES & BENEFITS

- 1 **Connector-to-cable molded junction** securely bonds for excellent reliability
- 2 **Molded keyway** design facilitates proper alignment reducing mismatching damage
- 3 **Shroud and cork** design seals out moisture ensuring environmental protection to IP-68 and NEMA-6P requirements
- 4 **Thermoplastic or thermoset** compound options available to support your most severe environment applications for oils, acids, coolants and other contaminants
- 5 **Easy stripping PVC jacketed cable** with “fillerless” design allows fast stripping with simple hand tools.  
**Cable options** available for industrial applications with the following types:
  - **STOOW cable** with PVC jacket having oil resistant jacket and conductors
  - **SEOW “TPE” cable** with oil resistant jacket/conductors having elastomer jacket
  - **“SO” cable** with oil resistant and low temperature jacket
- 6 Hardware available with **zinc diecast or nylon** coupling nuts/receptacle shells
- 7 **Receptacle shells** available with 1/2 and 3/4 pipe threads for 2 through 9 pin configurations.
- 8 Every unit is **100% electrically tested** using state of the art automated test equipment.

# SPECIFICATIONS CHANGE-OUT PLUGS

## Series A

- 2-9 Pole Configurations
- 2-4 Pole; #14 AWG, 12 AWG, 10 AWG
- 5-9 Pole; #18 AWG
- Nylon or Zinc Diecast Hardware

## Series B

- 2-8 Pole Configurations
- 2-7 Pole; #10 AWG
- 8 Pole; #14 AWG
- Anodized Aluminum Hardware



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Recognition:

File #E169897  
File #LR13963

### Electrical Data

Current Rating:  
Voltage Rating:  
Dielectric Withstand Voltage:

See chart with part number detail  
See chart with part number detail  
2200 VAC

### Environmental Data

Protection:  
  
Temperature Range:

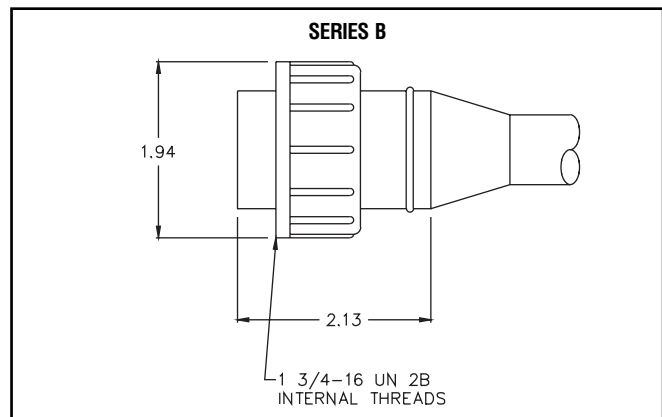
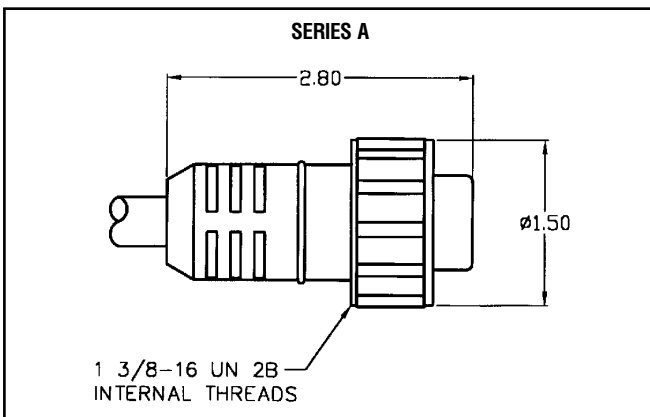
NEMA 1, 3, 4, 6P and 13; IEC IP 68  
(Nylon: NEMA 4X, Hose down pressure 1000 PSI)  
-20°C to +105°C

### Material Data




Body:  
Cable:  
Contacts:  
Coupling Nut:

Black flame resistant PVC, Neoprene  
STOOW, SO  
Series A Machined Brass; Series B copper  
Series A Zamak, nylon 6/6 weather stabilized  
Series B Machined Aluminum




## DIMENSIONS






## CHANGE-OUT SERIES A STOOW FEMALE PLUGS WITH ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 18A	14	6' 12' 18'	X8651-49P X8651-50P X8651-51P
3		1. Black 2. White 3. Green	600V, 18A	14	6' 12' 18'	X8652-48P X8652-49P X8652-50P
4		1. Black 2. Green 3. Red 4. White	600V, 15A	14	6' 12' 18'	X8653-44P X8653-45P X8653-46P

## CHANGE-OUT SERIES A STOOW MALE PLUGS WITH ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 18A	14	6' 12' 18'	X8651-52P X8651-53P X8651-54P
3		1. Black 2. White 3. Green	600V, 18A	14	6' 12' 18'	X8652-51P X8652-52P X8652-53P
4		1. Black 2. Green 3. Red 4. White	600V, 15A	14	6' 12' 18'	X8653-47P X8653-48P X8653-49P




## CHANGE-OUT SERIES A STOOW FEMALE PLUGS WITH NYLON COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 18A	14	6' 12' 18'	X8651-78P X8651-80P X8651-82P
3		1. Black 2. White 3. Green	600V, 18A	14	6' 12' 18'	X8652-92P X8652-94P X8652-96P
4		1. Black 2. Green 3. Red 4. White	600V, 15A	14	6' 12' 18'	X8653-92P X8653-94P X8653-96P




Note: Special lengths available upon request — consult factory.






## CHANGE-OUT SERIES A STOOW MALE PLUGS WITH NYLON COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 18A	14	6' 12' 18'	X8651-79P X8651-81P X8651-83P
3		1. Black 2. White 3. Green	600V, 18A	14	6' 12' 18'	X8652-93P X8652-95P X8652-97P
4		1. Black 2. Green 3. Red 4. White	600V, 15A	14	6' 12' 18'	X8653-93P X8653-95P X8653-97P

## CHANGE-OUT SERIES A STOOW FEMALE PLUGS WITH ZINC DIECAST COUPLING NUT




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 25A	12	6' 12' 18'	X8651-528P X8651-529P X8651-644P
3		1. Black 2. White 3. Green	600V, 25A	12	6' 12' 18'	X8652-528P X8652-529P X8652-644P
4		1. Black 2. Green 3. Red 4. White	600V, 20A	12	6' 12' 18'	X8653-528P X8653-529P X8653-644P

## CHANGE-OUT SERIES A STOOW MALE PLUGS WITH ZINC DIECAST COUPLING NUT




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 25A	12	6' 12' 18'	X8651-516P X8651-517P X8651-640P
3		1. Black 2. White 3. Green	600V, 25A	12	6' 12' 18'	X8652-516P X8652-517P X8652-640P
4		1. Black 2. Green 3. Red 4. White	600V, 20A	12	6' 12' 18'	X8653-516P X8653-517P X8653-640P

Note: Special lengths available upon request — consult factory.




## CHANGE-OUT SERIES A STOOW FEMALE PLUGS WITH NYLON COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 25A	12	6' 12' 18'	X8651-1528P X8651-1529P X8651-1644P
3		1. Black 2. White 3. Green	600V, 25A	12	6' 12' 18'	X8652-1528P X8652-1529P X8652-1644P
4		1. Black 2. Green 3. Red 4. White	600V, 20A	12	6' 12' 18'	X8653-1528P X8653-1529P X8653-1644P

## CHANGE-OUT SERIES A STOOW MALE PLUGS WITH NYLON COUPLING NUT




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 25A	12	6' 12' 18'	X8651-1516P X8651-1517P X8651-1640P
3		1. Black 2. White 3. Green	600V, 25A	12	6' 12' 18'	X8652-1516P X8652-222P X8652-1640P
4		1. Black 2. Green 3. Red 4. White	600V, 20A	12	6' 12' 18'	X8653-1516P X8653-1517P X8653-1640P

## CHANGE-OUT SERIES A STOOW FEMALE PLUGS WITH ZINC DIECAST COUPLING NUT




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 30A	10	6' 12' 18'	X8651-645P X8651-646P X8651-647P
3		1. Black 2. White 3. Green	600V, 30A	10	6' 12' 18'	X8652-645P X8652-646P X8652-647P
4		1. Black 2. Green 3. Red 4. White	600V, 25A	10	6' 12' 18'	X8653-645P X8653-646P X8653-647P

Note: Special lengths available upon request — consult factory.




## CHANGE-OUT SERIES A STOOW MALE PLUGS WITH ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 30A	10	6' 12' 18'	X8651-641P X8651-642P X8651-643P
3		1. Black 2. White 3. Green	600V, 30A	10	6' 12' 18'	X8652-641P X8652-642P X8652-643P
4		1. Black 2. Green 3. Red 4. White	600V, 25A	10	6' 12' 18'	X8653-641P X8653-642P X8653-643P

## CHANGE-OUT SERIES A STOOW FEMALE PLUGS WITH NYLON COUPLING NUT




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 30A	10	6' 12' 18'	X8651-1645P X8651-1646P X8651-1647P
3		1. Black 2. White 3. Green	600V, 30A	10	6' 12' 18'	X8652-1645P X8652-1646P X8652-1647P
4		1. Black 2. Green 3. Red 4. White	600V, 25A	10	6' 12' 18'	X8653-1645P X8653-1646P X8653-1647P

## CHANGE-OUT SERIES A STOOW MALE PLUGS WITH NYLON COUPLING NUT




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 30A	10	6' 12' 18'	X8651-1641P X8651-1642P X8651-1643P
3		1. Black 2. White 3. Green	600V, 30A	10	6' 12' 18'	X8652-1641P X8652-1642P X8652-1643P
4		1. Black 2. Green 3. Red 4. White	600V, 25A	10	6' 12' 18'	X8653-1641P X8653-1642P X8653-1643P

Note: Special lengths available upon request — consult factory.

## CHANGE-OUT SERIES A "SO" FEMALE PLUGS WITH ZINC DIECAST COUPLING NUT





POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
5		1. Red 2. White 3. Black 4. Orange 5. Green	300V, 6A	18	6' 12' 18'	X8872-5A X8872-7A X8872-9A
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	300V, 6A	18	6' 12' 18'	X8871-5A X8871-7A X8871-9A
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	300V, 5A	18	6' 12' 18'	X8870-5A X8870-8A X8870-10A

## CHANGE-OUT SERIES A "SO" MALE PLUGS WITH ZINC DIECAST COUPLING NUT





POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
5		1. Red 2. White 3. Black 4. Orange 5. Green	300V, 6A	18	6' 12' 18'	X8872-6A X8872-8A X8872-10A
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	300V, 6A	18	6' 12' 18'	X8871-6A X8871-8A X8871-10A
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	300V, 5A	18	6' 12' 18'	X8870-6A X8870-9A X8870-11A

Note: Special lengths available upon request — consult factory.

## CHANGE-OUT SERIES A "SO" FEMALE PLUGS WITH NYLON COUPLING NUT

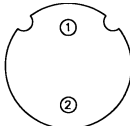
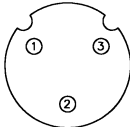
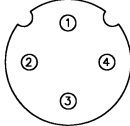
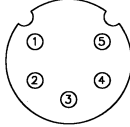
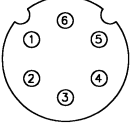
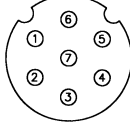
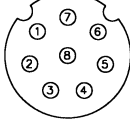
POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
5		1. Red	300V, 6A	18	6'	X8872-15A
		2. White			12'	X8872-17A
		3. Black			18'	X8872-19A
		4. Orange				
		5. Green				
6		1. Red	300V, 6A	18	6'	X8871-21A
		2. White			12'	X8871-23A
		3. Black			18'	X8871-25A
		4. Blue				
		5. Orange				
		6. Green				
7		1. Red	300V, 5A	18	6'	X8870-16A
		2. White			12'	X8870-18A
		3. Black			18'	X8870-20A
		4. Blue				
		5. Orange				
		6. Green				
		7. White-Black				
9		1. Green	110V, 3A	18	6'	X8980-7
		2. Red				
		3. White				
		4. Black				
		5. Red-Black				
		6. White-Black				
		7. Blue				
		8. Orange				
		9. Green-Black				

## CHANGE-OUT SERIES A "SO" MALE PLUGS WITH NYLON COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
5		1. Red	300V, 6A	18	6'	X8872-16A
		2. White			12'	X8872-18A
		3. Black			18'	X8872-20A
		4. Orange				
		5. Green				
6		1. Red	300V, 6A	18	6'	X8871-22A
		2. White			12'	X8871-24A
		3. Black			18'	X8871-26A
		4. Blue				
		5. Orange				
		6. Green				
7		1. Red	300V, 5A	18	6'	X8870-17A
		2. White			12'	X8870-19A
		3. Black			18'	X8870-21A
		4. Blue				
		5. Orange				
		6. Green				
		7. White-Black				
9		1. Green	110V, 3A	18	6'	X8980-10
		2. Red				
		3. White				
		4. Black				
		5. Red-Black				
		6. White-Black				
		7. Blue				
		8. Orange				
		9. Green-Black				

Note: Special lengths available upon request — consult factory.

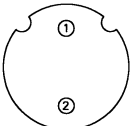
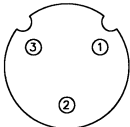
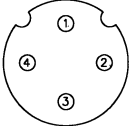
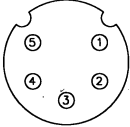
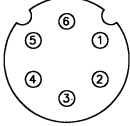
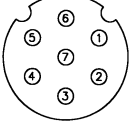
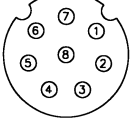
# CHANGE-OUT SERIES B "SO" FEMALE PLUGS WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. White 2. Black	600V, 25A	10	6' 12' 18'	X8881-5 X8881-7 X8881-9
3		1. Black 2. White 3. Green	600V, 25A	10	6' 12' 18'	X8880-5 X8880-7 X8880-9
4		1. Red 2. White 3. Black 4. Green	600V, 20A	10	6' 12' 18'	X8879-5 X8879-7 X8879-9
5		1. Red 2. White 3. Black 4. Orange 5. Green	600V, 20A	10	6' 12' 18'	X8878-5 X8878-7 X8878-9
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	600V, 20A	10	6' 12' 18'	X8877-7 X8877-9 X8877-11
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	600V, 18A	10	6' 12' 18'	X8876-7 X8876-9 X8876-11
8		1. Red 2. White 3. Black 4. White-Black 5. Blue 6. Orange 7. Green 8. Red-Black	600V, 11A	14	6' 12' 18'	X8916-5 X8916-6 X8916-7

Note: Special lengths available upon request — consult factory.



# CHANGE-OUT SERIES B "SO" MALE PLUGS WITH DIECAST ALUMINUM COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. White 2. Black	600V, 25A	10	6' 12' 18'	X8881-6B X8881-8B X8881-10B
3		1. Black 2. White 3. Green	600V, 25A	10	6' 12' 18"	X8880-6B X8880-8B X8880-10B
4		1. Red 2. White 3. Black 4. Green	600V, 20A	10	6' 12' 18'	X8879-6B X8879-8B X8879-10B
5		1. Red 2. White 3. Black 4. Orange 5. Green	600V, 20A	10	6' 12' 18'	X8878-6B X8878-8B X8878-10B
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	600V, 20A	10	6' 12' 18'	X8877-8B X8877-10B X8877-12B
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	600V, 18A	10	6' 12' 18'	X8876-8B X8876-10B X8876-12B
8		1. Red 2. White 3. Black 4. White-Black 5. Blue 6. Orange 7. Green 8. Red-Black	600V, 11A	14	6' 12' 18'	X8916-8B X8916-9B X8916-10B

Note: Special lengths available upon request — consult factory.



# SPECIFICATIONS CHANGE-OUT RECEPTACLES

## Series A

- 2-9 Pole Configurations
- 2-4 Pole; #14 AWG, 12 AWG, 10 AWG
- 5-9 Pole; #18 AWG
- Lexan™ or Zinc Diecast Hardware

## Series B

- 2-8 Pole Configurations
- 2-7 Pole; #10 AWG
- 8 Pole; #14 AWG
- Anodized Aluminum Hardware



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

CSA Recognition:

File #E169897

File #LR13963

### Electrical Data

Current Rating:

Voltage Rating:

Dielectric Withstand Voltage:

See chart with part number detail

See chart with part number detail

2200 VAC

### Environmental Data

Protection:

Temperature Range:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

-20°C to +105°C

### Material Data

Body:

Pigtail Leads:

Contacts:

Receptacle Shell:

Series A: Black flame resistant PVC; Series B: Neoprene

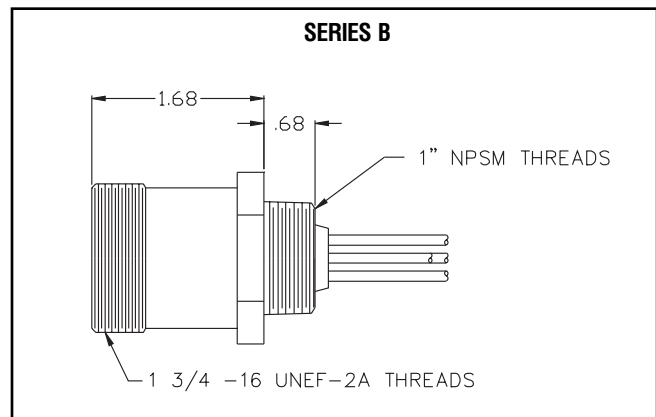
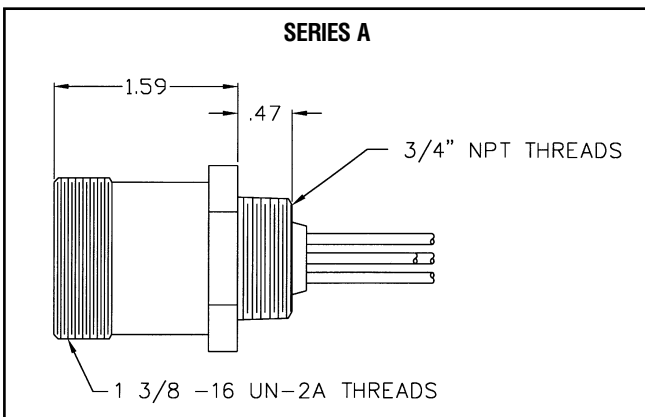
Color coded type MTW or AWM style 1015/1230

Machined Brass, copper

Series A: Zamak or Lexan™




Series B: Machined Aluminum

## DIMENSIONS






Lexan is a registered trademark of GE Plastics.




## CHANGE-OUT SERIES A FEMALE RECEPTACLES WITH ZINC DIECAST RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 18A	14	12"	1/2" 3/4"	X8651-10P X8651-11P
3		1. Black 2. White 3. Green	600V, 18A	14	12"	1/2" 3/4"	X8652-14P X8652-15P
4		1. Black 2. Green 3. Red 4. White	600V, 15A	14	12"	1/2" 3/4"	X8653-15P X8653-16P

## CHANGE-OUT SERIES A MALE RECEPTACLES WITH ZINC DIECAST RECEPTACLE SHELL




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 18A	14	12"	1/2" 3/4"	X8651-8P X8651-9P
3		1. Black 2. White 3. Green	600V, 18A	14	12"	1/2" 3/4"	X8652-12P X8652-13P
4		1. Black 2. Green 3. Red 4. White	600V, 15A	14	12"	1/2" 3/4"	X8653-13P X8653-14P

## CHANGE-OUT SERIES A FEMALE RECEPTACLES WITH LEXAN RECEPTACLE SHELL




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 18A	14	12"	1/2" 3/4"	X8651-76P X8651-84P
3		1. Black 2. White 3. Green	600V, 18A	14	12"	1/2" 3/4"	X8652-90P X8652-98P
4		1. Black 2. Green 3. Red 4. White	600V, 15A	14	12"	1/2" 3/4"	X8653-90P X8653-98P

Note: Special lead lengths available upon request — consult factory.




## CHANGE-OUT SERIES A MALE RECEPTACLES WITH LEXAN RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 18A	14	12"	1/2" 3/4"	X8651-77P X8651-85P
3		1. Black 2. White 3. Green	600V, 18A	14	12"	1/2" 3/4"	X8652-91P X8652-99P
4		1. Black 2. Green 3. Red 4. White	600V, 15A	14	12"	1/2" 3/4"	X8653-91P X8653-99P

## CHANGE-OUT SERIES A FEMALE RECEPTACLES WITH ZINC DIECAST RECEPTACLE SHELL




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 25A	12	12"	1/2" 3/4"	X8651-654P X8651-655P
3		1. Black 2. White 3. Green	600V, 25A	12	12"	1/2" 3/4"	X8652-654P X8652-686P
4		1. Black 2. Green 3. Red 4. White	600V, 20A	12	12"	1/2" 3/4"	X8653-654P X8653-655P

## CHANGE-OUT SERIES A MALE RECEPTACLES WITH ZINC DIECAST RECEPTACLE SHELL




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT THREAD	PART NUMBER
2		1. Black 2. White	600V, 25A	12	12"	1/2" 3/4"	X8651-648P X8651-649P
3		1. Black 2. White 3. Green	600V, 25A	12	12"	1/2" 3/4"	X8652-255P X8652-649P
4		1. Black 2. Green 3. Red 4. White	600V, 20A	12	12"	1/2" 3/4"	X8653-18P X8653-17P

Note: Special lead lengths available upon request — consult factory.




## CHANGE-OUT SERIES A FEMALE RECEPTACLES WITH LEXAN RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 25A	12	12"	1/2" 3/4"	X8651-1654P X8651-1655P
3		1. Black 2. White 3. Green	600V, 25A	12	12"	1/2" 3/4"	X8652-221P X8652-262P
4		1. Black 2. Green 3. Red 4. White	600V, 20A	12	12"	1/2" 3/4"	X8653-1634P X8653-383P

## CHANGE-OUT SERIES A MALE RECEPTACLES WITH LEXAN RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 25A	12	12"	1/2" 3/4"	X8651-1648P X8651-1649P
3		1. Black 2. White 3. Green	600V, 25A	12	12"	1/2" 3/4"	X8652-219P X8652-1649P
4		1. Black 2. Green 3. Red 4. White	600V, 20A	12	12"	1/2" 3/4"	X8653-253P X8653-1649P




## CHANGE-OUT SERIES A FEMALE RECEPTACLES WITH ZINC DIECAST RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 30A	10	12"	1/2" 3/4"	X8651-656P X8651-657P
3		1. Black 2. White 3. Green	600V, 30A	10	12"	1/2" 3/4"	X8652-656P X8652-657P
4		1. Black 2. Green 3. Red 4. White	600V, 25A	10	12"	1/2" 3/4"	X8653-656P X8653-657P




Note: Special lead lengths available upon request — consult factory.






## CHANGE-OUT SERIES A MALE RECEPTACLES WITH ZINC DIECAST RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 30A	10	12"	1/2" 3/4"	X8651-650P X8651-651P
3		1. Black 2. White 3. Green	600V, 30A	10	12"	1/2" 3/4"	X8652-650P X8652-651P
4		1. Black 2. Green 3. Red 4. White	600V, 25A	10	12"	1/2" 3/4"	X8653-650P X8653-651P

## CHANGE-OUT SERIES A FEMALE RECEPTACLES WITH LEXAN RECEPTACLE SHELL




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 30A	10	12"	1/2" 3/4"	X8651-1656P X8651-1657P
3		1. Black 2. White 3. Green	600V, 30A	10	12"	1/2" 3/4"	X8652-1656P X8652-1657P
4		1. Black 2. Green 3. Red 4. White	600V, 25A	10	12"	1/2" 3/4"	X8653-1656P X8653-384P

## CHANGE-OUT SERIES A MALE RECEPTACLES WITH LEXAN RECEPTACLE SHELL




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 30A	10	12"	1/2" 3/4"	X8651-1650P X8651-1651P
3		1. Black 2. White 3. Green	600V, 30A	10	12"	1/2" 3/4"	X8652-1650P X8652-1651P
4		1. Black 2. Green 3. Red 4. White	600V, 25A	10	12"	1/2" 3/4"	X8653-1650P X8653-1651P

Note: Special lead lengths available upon request — consult factory.

## CHANGE-OUT SERIES A FEMALE RECEPTACLES WITH ZINC DIECAST RECEPTACLE SHELL





POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
5		1. Red 2. White 3. Black 4. Orange 5. Green	300V, 6A	18	12"	1/2" 3/4"	X8872-1B X8872-11B
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	300V, 6A	18	12"	1/2" 3/4"	X8871-1B X8871-11B
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	300V, 5A	18	12"	1/2" 3/4"	X8870-12B X8870-2B

## CHANGE-OUT SERIES A MALE RECEPTACLES WITH ZINC DIECAST RECEPTACLE SHELL





POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
5		1. Red 2. White 3. Black 4. Orange 5. Green	300V, 6A	18	12"	1/2" 3/4"	X8872-3B X8872-12B
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	300V, 6A	18	12"	1/2" 3/4"	X8871-3B X8871-12B
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	300V, 5A	18	12"	1/2" 3/4"	X8870-13B X8870-4B

Note: Special lead lengths available upon request — consult factory.

## CHANGE-OUT SERIES A FEMALE RECEPTACLES WITH LEXAN RECEPTACLE SHELL

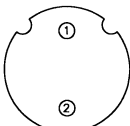
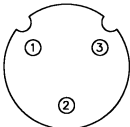
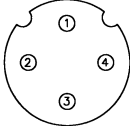
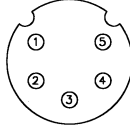
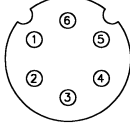
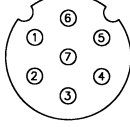
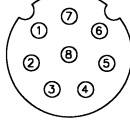
POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
5		1. Red 2. White 3. Black 4. Orange 5. Green	300V, 6A	18	12"	1/2" 3/4"	X8872-13B X8872-21B
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	300V, 6A	18	12"	1/2" 3/4"	X8871-19B X8871-27B
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	300V, 5A	18	12"	1/2" 3/4"	X8870-22B X8870-14B
9		1. Green 2. Red 3. White 4. Black 5. Red-Black 6. White-Black 7. Blue 8. Orange 9. Green-Black	110V, 3A	18	12"	3/4"	X8980-3B

## CHANGE-OUT SERIES A MALE RECEPTACLES WITH LEXAN RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
5		1. Red 2. White 3. Black 4. Orange 5. Green	300V, 30A	6	12"	1/2" 3/4"	X8872-14B X8872-22B
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	300V, 30A	6	12"	1/2" 3/4"	X8871-20B X8871-28B
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	300V, 25A	5	12"	1/2" 3/4"	X8870-23B X8870-15B
9		1. Green 2. Red 3. White 4. Black 5. Red-Black 6. White-Black 7. Blue 8. Orange 9. Green-Black	110V, 25A	3	12"	3/4"	X8980-5B

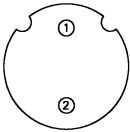
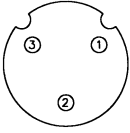
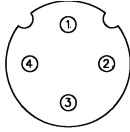
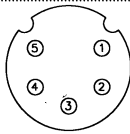
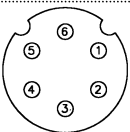
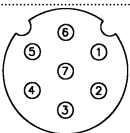
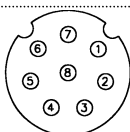
Note: Special lead lengths available upon request — consult factory.

# CHANGE-OUT SERIES B FEMALE RECEPTACLES WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. White 2. Black	600V, 25A	10	12"	1"	X8881-1
3		1. Black 2. White 3. Green	600V, 25A	10	12"	1"	X8880-1
4		1. Red 2. White 3. Black 4. Green	600V, 20A	10	12"	1"	X8879-1
5		1. Red 2. White 3. Black 4. Orange 5. Green	600V, 20A	10	12"	1"	X8878-1
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	600V, 20A	10	12"	1"	X8877-1
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	600V, 18A	10	12"	1"	X8876-1
8		1. Red 2. White 3. Black 4. White-Black 5. Blue 6. Orange 7. Green 8. Red-Black	600V, 11A	14	12"	1"	X8916-1

Note: Special lead lengths available upon request — consult factory.

# CHANGE-OUT SERIES B MALE RECEPTACLES WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. White 2. Black	600V, 25A	10	12"	1"	X8881-3B
3		1. Black 2. White 3. Green	600V, 25A	10	12"	1"	X8880-3B
4		1. Red 2. White 3. Black 4. Green	600V, 20A	10	12"	1"	X8879-3B
5		1. Red 2. White 3. Black 4. Orange 5. Green	600V, 20A	10	12"	1"	X8878-3B
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	600V, 20A	10	12"	1"	X8877-3B
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	600V, 18A	10	12"	1"	X8876-3B
8		1. Red 2. White 3. Black 4. White-Black 5. Blue 6. Orange 7. Green 8. Red-Black	600V, 11A	14	12"	1"	X8916-3B

Note: Special lead lengths available upon request — consult factory.

## WIRE AND CABLE TYPE DESCRIPTIONS

**AWM** – Designation for appliance wiring material.

**MTW** – Thermoplastic insulated machine tool wire, temperature rated 90° C to 105° C.

**PUR** – Thermoplastic polyurethane jacketed cable with excellent resistance to automotive fluids and abrasion.

**SEOW** – Thermoplastic elastomer “TPE” jacketed hard service cable, oil resistant jacket, 600 Volt, suitable for outdoor use.

**SO** – Thermoset rubber insulated hard service cable, oil resistant jacket, 600 Volt.

**SOOW** – Thermoset rubber insulated hard service cable, oil resistant jacket and conductor insulation, 600 volt, suitable for outdoor use.

**STOOW** – Thermoplastic insulated hard service cable, oil resistant jacket and conductor insulation, 600 volt, suitable for outdoor use.

## INDUSTRY STANDARDS

**UL** – Products recognized or listed with Underwriters Laboratories have been evaluated by UL and found to meet or exceed applicable safety standards. UL maintains a file on these products, and requires them to be retested on a regular basis to insure ongoing conformity to the standards.

**CSA** – The Canadian Standards Association is Canada’s governmental testing and certifying agency. Products that have CSA approval have been tested and certified to have passed their own safety related standards.

**VDE** – Verband Deutscher Elektrotechniker is the German counterpart to UL.

**DIN 43650** – This international standard defines the geometry for connectors commonly used on hydraulic and pneumatic valves.

**NEMA** – The National Electrical Manufacturers Association is the largest trade association in the United States representing the interests of electrical industry manufacturers. Its alphanumeric rating system provides an indication of the type of environment a device should be suitable for. Definitions for NEMA ratings used in this catalog are shown below:

**NEMA 1** – Provides a degree of protection against accidental bodily contact and falling dirt.

**NEMA 3** – Provides a degree of protection against accidental bodily contact, falling dirt, wind-blown dust, rain, sleet, and external ice formation.

**NEMA 4** – Provides a degree of protection against accidental bodily contact, falling dirt, wind-blown dust and rain, splashing water, and hose-directed water.

**NEMA 6P** – Provides a degree of protection against all the above, corrosive agents, and the entry of water during prolonged submersion at a limited depth.

**NEMA 13** – Provides a degree of protection against accidental bodily contact, falling dirt, dust, splashing water, and oil or coolant splash or spray.

**IEC** – The International Electrotechnical Commission is an organization that also uses a rating system to provide an indication of the type of environment a device should be suitable for. Definitions for IEC ratings used in this catalog are shown below:

**IEC IP 65** – No ingress of dust; water projected from a 12mm nozzle at 43psi from any direction shall have no harmful effect.

**IEC IP 68** – No ingress of dust; suitable for continuous submersion in water under conditions specified by the manufacturer, but not less than 1 meter for 30 minutes.



# TERMINAL & CONNECTOR TERMINOLOGY

**Abrasion Resistance** – Ability of wire, cable or material to resist surface wear.

**AC Alternating Current (A.C.)** – Current in which the polarity reverses at regular intervals.

**Ambient Temperature** – The temperature of a medium (gas or liquid) surrounding an object.

**American Wire Gauge (AWG)** – The standard system used for designating wire diameter. The lower the AWG number, the larger the diameter.

**Ampacity** – The maximum allowable current flow rating given to a conductor or group of conductors in order to insure safe operation. Exceeding the rated ampacity can cause overheating.

**Ampere (A)** – The unit of measuring electrical current flow. One ampere is the current flowing through one OHM of resistance at one volt potential.

**ANSI** – Abbreviation for American National Standards Institute.

**Appliance Wiring Material (AWM)** – A UL designation covering insulated wire and cable for internal wiring of appliances and equipment.

**Armored Cable** – A cable provided with a wrapping of metal for mechanical protection.

**ASTM** – Abbreviation for the American Society for Testing and Materials, a non-profit industry-wide organization which publishes standards, methods of test, recommended practices, definitions and other related material.

**Back Mounting** – Mounting a device with its mounting flange inside an enclosure.

**Braid** – A metallic mesh of filaments interwoven to form a covering over one or more wires, providing a barrier against electromagnetic interference and strengthening the cable.

**Bonded** – Permanent physical attachment of one surface to another. In connectors, usually referring to the joint between connector body and cable jacket.

**Body** – The main or largest portion of a connector to which other components are attached.

**Breakdown Voltage** – The voltage at which the insulation between two conductors breaks down, causing arcing.

**Cable** – An insulated conductor or group of conductors used for the transmission of electrical energy.

**Cable Assembly** – A cable with connectors on one or both ends.

**Cable Filler** – The material used in multiple-conductor cables to occupy the voids between the insulated conductors.

**Circuit** – A complete path for electrical current. When the continuity of a circuit is broken, current no longer flows (an “open” circuit). When continuity is restored, current flows (a “closed” circuit).

**Circular Mil** – A measurement used in reference to the size of a conductor. Equal to the area of a circle one thousandth of an inch in diameter.

**Color Code** – A color system for wire or circuit identification by use of solid colors, tracers, braids, surface printing, etc.

**Conductivity** – The ability of a material to allow electrical current to flow. It is the opposite of resistivity.

**Conductor** – A wire (or combination of wires not insulated from one another) suitable for carrying electric current.

**Conduit** – A rigid or flexible tube in which insulated wires and cable are run.

**Connector** – A device used to provide rapid connect/disconnect service for electrical cable and wire terminations.

**Contact** – The part of a connector which actually carries the electrical current, and are touched together or separated to control the flow.

**Contact Plating** – Surface coating of metal applied to the contact to provide resistance to corrosion and/or wear.

**Contact Resistance** – Electrical resistance of a mated pair of contacts in a connector. Measured across both contacts (excluding crimps) at a specified test current. Usually given in milliohms (thousandths of an ohm).

**Contact Retention** – Minimum axial load in either direction which a contact must withstand while remaining firmly fixed within a connector.

**Contact Spacing** – The distance between the centers of contacts in a connector.

**Continuity Test** – Test done to insure that conductors are properly terminated to the correct contacts.

**Control Cable** – A multiconductor cable made for use in signal control circuits.

**Cord** – A small, flexible insulated cable.

**Cord Sets** – Portable cords fitted with any type of wiring device at one or both ends.

**Coupling Nut** – A device used on cylindrical connectors to lock plug and receptacle together.

**Crimp Termination** – Connection in which a metal sleeve is secured to a conductor by mechanically forming the sleeve.

**Cross-Linked** – Bonds produced between molecules, by chemical or electron bombardment means, resulting in a change in physical properties in the material.

**Current Rating** – The current a conductor of given size is capable of carrying safely without exceeding its own insulation and jacket temperature ratings.

**Detent** – A feature providing tactile feedback during movement of a mechanism.

**Dielectric Withstand Voltage** – The voltage at which leakage current through an insulator does not exceed a maximum allowable value. See Hipot Testing.

**Direct Current (DC)** – An electrical current that flows in one direction only.

**Drain Wire** – A bare wire running inside and in contact with a shield. Usually terminated so as to provide a circuit path to “drain” electrostatic charges induced into the shield to ground.

**Elastomer** – A material which can be stretched at room temperature to at least twice its original length and return to approximately its original length upon release. Can be thermoset or thermoplastic material.

**Engaging and Separating Force** – The amount of force needed to engage and/or separate contact elements in mating connectors.

**Environmentally Sealed** – A connector provided with gaskets, seals, potting or other devices to keep out moisture, dirt or dust which might reduce its performance.

**Female** – An open socket or receptacle which mates with a male pin.

**Filler** – A material used in the cable to fill large voids between electrical components.

**Flange Mount** – Mounting by means of a projection extending from, or around the periphery of, a connector.

**Flex Life** – Ability of a conductor, wire or cable to withstand repeated bending.

**Front Mounted** – A connector is front mounted when it is attached to the outside or mating side of a panel. A front mounted connector can only be installed or removed from the outside of the equipment.

**Ground** – A point in a circuit which has zero voltage potential with respect to earth or to the chassis of the device.

**Hipot Test** – A test conducted using a high voltage (high potential) which insures that conductors do not have continuity with each other, and that the insulation resistance meets a specified minimum value.

**Hydraulic** – Operated by oil or other liquid.

**Insert** – That part which holds the contacts in their proper arrangement and electrically insulates them from each other and from the shell.

**Insert Retention** – Axial load in either direction which an insert must withstand without being dislocated from its normal position in the connector shell or molding.

**Insulation** – A non-conductive material usually surrounding or separating two conductive materials.

**Interconnection** – Mechanically joining devices together to complete an electrical circuit.

**Interface** – The two surfaces which face each other when connectors are mated.

**Key** – A short pin or other projection which slides in a mating slot or groove to guide two parts being assembled. Generally used in round, shell enclosed connectors to prevent mating wrong connectors and to assist in polarization.

**Load** – Any device that converts electrical energy into some useful function.

**LED** – Light-emitting diode, a component commonly used to give visual indication of circuit status.

**Male** – A solid pin or a tab that fits into a female receptacle-type terminal or contact.

**Megohm** – One million OHMS.

**Mil** – One one-thousandth of an inch (.001").

**Multiconductor** – More than one conductor within a single cable jacket.

**NPN** – (negative-positive-negative) Refers to the polarity of transistors used in sensor switching circuits. Transistor collector and emitter leads are wired to n-type junctions; transistor base is wired to p-type junction. This configuration is commonly called "current sinking".

**Pin Contact** – A male type contact, usually designed to mate with a socket or female contact. It is normally connected to the "load" side of a circuit.

**Plug** – The part of the two mating halves of a connector which is free to move when not fastened to the other mating half.

**PNP** – (positive-negative-positive) Refers to the polarity of transistors used in sensor switching circuits. Transistor collector and emitter leads are wired to p-type junctions; transistor base is wired to n-type junction. This configuration is commonly called "current sourcing".

**Pneumatic** – Operated by air or other gas.

**Polarization** – A feature which insures proper orientation of connectors when mating.

**Potting** – Encapsulating material used to exclude moisture, prevent short circuits, provide strain relief, etc.

**PUR** – Polyurethane.

**PVC** – Polyvinyl chloride.

**Quick Disconnect** – A type of connector which permits rapid locking and unlocking of two mating halves.

**Ratcheting** – A feature of coupling nuts with detents that helps prevent unmating due to vibration.

**Receptacle** – A male or female connector that is mounted in a stationary position.

**Resistance** – The property of a conductor or insulator which opposes the flow of electrical current. Measured in OHMS.

**SAE** – Society of Automotive Engineers.

**Shell** – Outside case into which a connector insert and contacts are assembled. Provides protection of projecting contacts.

**Shield** – A conductive sleeving surrounding one or more conductors used to prevent electromagnetic interference, interaction or current leakage.

**Side-load Force** – A force applied perpendicular to the axis of a connector. Used in testing the strength of various connector components.

**Snap-On** – A method of attaching connectors to each other which relies on friction alone.

**Solenoid** – An electrically operated actuator.

**Thermoplastic** – Material that is capable of softening when heated and of hardening again when cooled. The material composition does not change.

**Thermoset** – Material that undergoes a permanent, irreversible molecular change when processed.

**Varistor** – Also called MOV (metal oxide varistor) and VDR (voltage dependent resistor). A device used to suppress transient voltages that exceed the rated voltage of connected equipment.

**VDE** – Verband Deutscher Elektrotechniker. A German approval agency similar to U.L or C.S.A.

**Volt** – Unit used to express electrical pressure. For a fixed value of resistance, raising the voltage in a circuit will cause more current to flow.

**Voltage Drop** – A term expressing the amount of voltage that can be measured across a component or conductor in a closed circuit.

**Voltage Rating** – The maximum voltage that should be applied to a device to insure safe operation. Alternatively, the operating voltage at which a device will give the desired performance. (A varistor rated at 120 volts will suppress voltages that are higher.)

**Wicking** – The flow of liquid into wire or cable due to capillary action.

**Wiping Action** – The action which occurs when contacts are mated with a sliding action. Wiping has the effect of removing small amounts of contamination from the contact surfaces, thus improving conductivity.



# CROUSE-HINDS® MOLDED PRODUCTS MINIATURE CONNECTORS

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# SPECIFICATIONS MINI-LINE STYLE III STOOW MALE TO FEMALE EXTENSIONS (9, 10 AND 12 POLE)

- 16 AWG Standard Color Code
- 600V 105°C STOOW
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-40°C to +105°C

### Material Data

Body:

Yellow, 82A durometer, flame resistant PVC

Cable:

Yellow, STOOW per UL62

Contacts:

Machined Brass per ASTM B-16

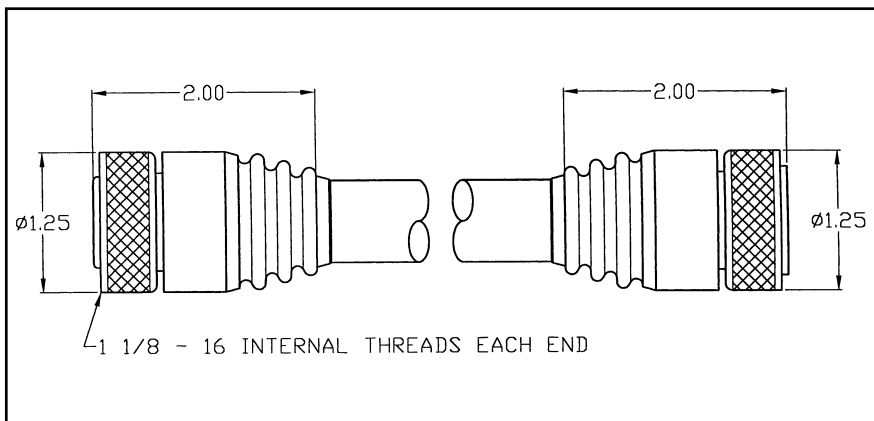
Female Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel




Coupling Nut:

Machined Aluminum with anodize finish and clear sealant

## DIMENSIONS



# MINI-LINE STOOW MALE TO FEMALE EXTENSIONS WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
9		1. Orange	600V, 7A	16	3'	X8990-33
		2. Blue			6'	X8990-34
		3. Red-Black			12'	X8990-35
		4. Green-Black			15'	X8990-4031
		5. White			20'	X8990-73
		6. Red			25'	X8990-74
		7. Green			30'	X8990-75
		8. White-Black				
		9. Black				
10		1. Orange	600V, 7A	16	3'	X8991-33
		2. Blue			6'	X8991-34
		3. White-Black			12'	X8991-35
		4. Red-Black			15'	X8991-4056
		5. Green-Black			20'	X8991-73
		6. Orange-Black			25'	X8991-74
		7. Red			30'	X8991-75
		8. Green				
		9. Black				
		10. White				
12		1. Orange	600V, 7A	16	3'	X8992-33
		2. Blue			6'	X8992-34
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		4. Red-Black			15'	X8992-4035
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		6. Orange-Black			25'	X8992-74
		7. Blue-Black			30'	X8992-75
		8. Black-White				
		9. Green				
		10. Red				
		11. White				
		12. Black				

Note: Special lengths available upon request — consult factory.  
 Right angle male and female plugs available — consult factory.  
 Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MINI-LINE STYLE III RECEPTACLES (9, 10 AND 12 POLE)

- Male and Female Receptacles
- Standard Color Code
- 16 AWG Pigtail Leads
- 600V 105°C
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

600 VAC / 600 VDC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

### Material Data

Insert:

Yellow, 82A durometer, flame resistant PVC

Pigtail leads:

Color Coded type MTW or AWM style 1015/1230

Contacts:

Machined Brass per ASTM B-16

Receptacle Shell:

Machined Aluminum with anodize finish and clear sealant

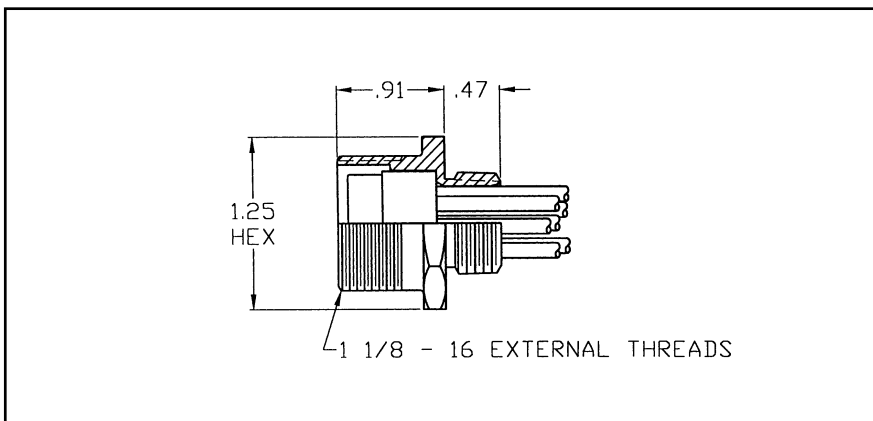
Potting Compound:

303 Stainless Steel




Potting Compound:

Black rigid epoxy




## DIMENSIONS



# MINI-LINE FEMALE RECEPTACLES WITH MACHINED ALUMINUM RECEPTACLE SHELL




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" NPT
9		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. Red-Black</li> <li>4. Green-Black</li> <li>5. White</li> <li>6. Red</li> <li>7. Green</li> <li>8. White-Black</li> <li>9. Black</li> </ol>	600V, 7A	16	12"	X8990-1
10		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. White-Black</li> <li>4. Red-Black</li> <li>5. Green-Black</li> <li>6. Orange-Black</li> <li>7. Red</li> <li>8. Green</li> <li>9. Black</li> <li>10. White</li> </ol>	600V, 7A	16	12"	X8991-1
12		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. White-Black</li> <li>4. Red-Black</li> <li>5. Green-Black</li> <li>6. Orange-Black</li> <li>7. Blue-Black</li> <li>8. Black-White</li> <li>9. Green</li> <li>10. Red</li> <li>11. White</li> <li>12. Black</li> </ol>	600V, 7A	16	12"	X8992-1

# MINI-LINE MALE RECEPTACLES WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" NPT
9		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. Red-Black</li> <li>4. Green-Black</li> <li>5. White</li> <li>6. Red</li> <li>7. Green</li> <li>8. White-Black</li> <li>9. Black</li> </ol>	600V, 7A	16	12"	X8990-2
10		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. White-Black</li> <li>4. Red-Black</li> <li>5. Green-Black</li> <li>6. Orange-Black</li> <li>7. Red</li> <li>8. Green</li> <li>9. Black</li> <li>10. White</li> </ol>	600V, 7A	16	12"	X8991-2
12		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. White-Black</li> <li>4. Red-Black</li> <li>5. Green-Black</li> <li>6. Orange-Black</li> <li>7. Blue-Black</li> <li>8. Black-White</li> <li>9. Green</li> <li>10. Red</li> <li>11. White</li> <li>12. Black</li> </ol>	600V, 7A	16	12"	X8992-2

Note: Special lead lengths available upon request — consult factory.




# MINI-LINE FEMALE RECEPTACLES WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" NPT
9		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. Red-Black</li> <li>4. Green-Black</li> <li>5. White</li> <li>6. Red</li> <li>7. Green</li> <li>8. White-Black</li> <li>9. Black</li> </ol>	600V, 7A	16	12"	X8990-1X
10		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. White-Black</li> <li>4. Red-Black</li> <li>5. Green-Black</li> <li>6. Orange-Black</li> <li>7. Red</li> <li>8. Green</li> <li>9. Black</li> <li>10. White</li> </ol>	600V, 7A	16	12"	X8991-1X
12		<ol style="list-style-type: none"> <li>1. Orange</li> <li>2. Blue</li> <li>3. White-Black</li> <li>4. Red-Black</li> <li>5. Green-Black</li> <li>6. Orange-Black</li> <li>7. Blue-Black</li> <li>8. Black-White</li> <li>9. Green</li> <li>10. Red</li> <li>11. White</li> <li>12. Black</li> </ol>	600V, 7A	16	12"	X8992-1X

Note: Special lead lengths available upon request — consult factory.



# MINI-LINE MALE RECEPTACLES WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/2" NPT
9		1. Orange 2. Blue 3. Red-Black 4. Green-Black 5. White 6. Red 7. Green 8. White-Black 9. Black	600V, 7A	16	12"	X8990-2X
10		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	600V, 7A	16	12"	X8991-2X
12		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Blue-Black 8. Black-White 9. Green 10. Red 11. White 12. Black	600V, 7A	16	12"	X8992-2X

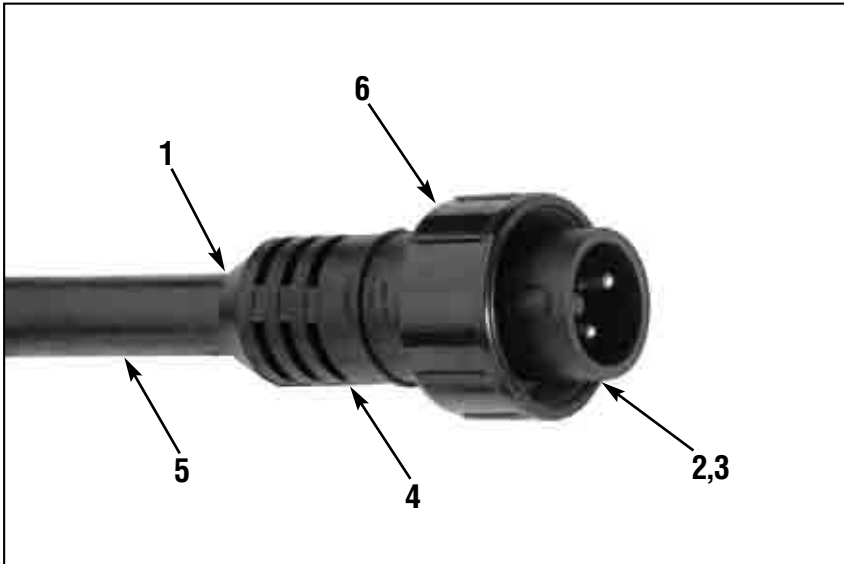
Note: Special lead lengths available upon request — consult factory.

# CHANGE-OUT CONNECTORS

**“THE  
TOUGH LINE  
FOR TOUGH  
JOBS”**

Crouse-Hinds Change-Out connectors provide superior service for your tough industrial environments. Our factory molded-to-cable design provides rugged, sealed construction. The resilient one-piece molded construction shrugs off heavy physical abuse while maintaining an environmental seal.

Cable and hardware options allow easy design improvements to meet your application requirements. Connector and receptacle pigtail lead lengths available to meet your specific requirements upon request.



## FEATURES & BENEFITS

- 1 **Connector-to-cable molded junction** securely bonds for excellent reliability
- 2 **Molded keyway** design facilitates proper alignment reducing mismatching damage
- 3 **Shroud and cork** design seals out moisture ensuring environmental protection to IP-68 and NEMA-6P requirements
- 4 **Thermoplastic or thermoset** compound options available to support your most severe environment applications for oils, acids, coolants and other contaminants
- 5 **Easy stripping PVC jacketed cable** with “fillerless” design allows fast stripping with simple hand tools.  
**Cable options** available for industrial applications with the following types:
  - **STOOW cable** with PVC jacket having oil resistant jacket and conductors
  - **SEOW “TPE” cable** with oil resistant jacket/conductors having elastomer jacket
  - **“SO” cable** with oil resistant and low temperature jacket
- 6 Hardware available with **zinc diecast or nylon** coupling nuts/receptacle shells
- 7 **Receptacle shells** available with 1/2 and 3/4 pipe threads for 2 through 9 pin configurations.
- 8 Every unit is **100% electrically tested** using state of the art automated test equipment.

# SPECIFICATIONS CHANGE-OUT PLUGS

## Series A

- 2-9 Pole Configurations
- 2-4 Pole; #14 AWG, 12 AWG, 10 AWG
- 5-9 Pole; #18 AWG
- Nylon or Zinc Diecast Hardware

## Series B

- 2-8 Pole Configurations
- 2-7 Pole; #10 AWG
- 8 Pole; #14 AWG
- Anodized Aluminum Hardware



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Recognition:

File #E169897  
File #LR13963

### Electrical Data

Current Rating:  
Voltage Rating:  
Dielectric Withstand Voltage:

See chart with part number detail  
See chart with part number detail  
2200 VAC

### Environmental Data

Protection:  
  
Temperature Range:

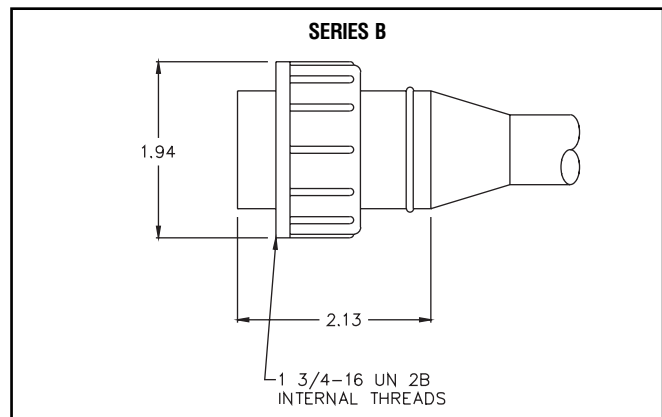
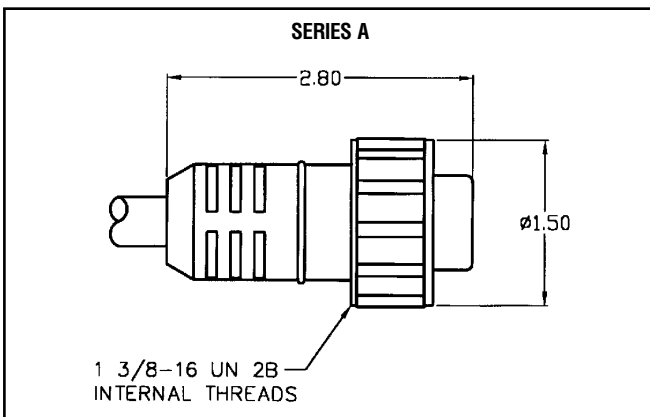
NEMA 1, 3, 4, 6P and 13; IEC IP 68  
(Nylon: NEMA 4X, Hose down pressure 1000 PSI)  
-20°C to +105°C

### Material Data




Body:  
Cable:  
Contacts:  
Coupling Nut:

Black flame resistant PVC, Neoprene  
STOOW, SO  
Series A Machined Brass; Series B copper  
Series A Zamak, nylon 6/6 weather stabilized  
Series B Machined Aluminum




## DIMENSIONS






## CHANGE-OUT SERIES A STOOW FEMALE PLUGS WITH ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 18A	14	6' 12' 18'	X8651-49P X8651-50P X8651-51P
3		1. Black 2. White 3. Green	600V, 18A	14	6' 12' 18'	X8652-48P X8652-49P X8652-50P
4		1. Black 2. Green 3. Red 4. White	600V, 15A	14	6' 12' 18'	X8653-44P X8653-45P X8653-46P

## CHANGE-OUT SERIES A STOOW MALE PLUGS WITH ZINC DIECAST COUPLING NUT




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 18A	14	6' 12' 18'	X8651-52P X8651-53P X8651-54P
3		1. Black 2. White 3. Green	600V, 18A	14	6' 12' 18'	X8652-51P X8652-52P X8652-53P
4		1. Black 2. Green 3. Red 4. White	600V, 15A	14	6' 12' 18'	X8653-47P X8653-48P X8653-49P

## CHANGE-OUT SERIES A STOOW FEMALE PLUGS WITH NYLON COUPLING NUT




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 18A	14	6' 12' 18'	X8651-78P X8651-80P X8651-82P
3		1. Black 2. White 3. Green	600V, 18A	14	6' 12' 18'	X8652-92P X8652-94P X8652-96P
4		1. Black 2. Green 3. Red 4. White	600V, 15A	14	6' 12' 18'	X8653-92P X8653-94P X8653-96P

Note: Special lengths available upon request — consult factory.




## CHANGE-OUT SERIES A STOOW MALE PLUGS WITH NYLON COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 18A	14	6' 12' 18'	X8651-79P X8651-81P X8651-83P
3		1. Black 2. White 3. Green	600V, 18A	14	6' 12' 18'	X8652-93P X8652-95P X8652-97P
4		1. Black 2. Green 3. Red 4. White	600V, 15A	14	6' 12' 18'	X8653-93P X8653-95P X8653-97P

## CHANGE-OUT SERIES A STOOW FEMALE PLUGS WITH ZINC DIECAST COUPLING NUT




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 25A	12	6' 12' 18'	X8651-528P X8651-529P X8651-644P
3		1. Black 2. White 3. Green	600V, 25A	12	6' 12' 18'	X8652-528P X8652-529P X8652-644P
4		1. Black 2. Green 3. Red 4. White	600V, 20A	12	6' 12' 18'	X8653-528P X8653-529P X8653-644P

## CHANGE-OUT SERIES A STOOW MALE PLUGS WITH ZINC DIECAST COUPLING NUT




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 25A	12	6' 12' 18'	X8651-516P X8651-517P X8651-640P
3		1. Black 2. White 3. Green	600V, 25A	12	6' 12' 18'	X8652-516P X8652-517P X8652-640P
4		1. Black 2. Green 3. Red 4. White	600V, 20A	12	6' 12' 18'	X8653-516P X8653-517P X8653-640P

Note: Special lengths available upon request — consult factory.




## CHANGE-OUT SERIES A STOOW FEMALE PLUGS WITH NYLON COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 25A	12	6' 12' 18'	X8651-1528P X8651-1529P X8651-1644P
3		1. Black 2. White 3. Green	600V, 25A	12	6' 12' 18'	X8652-1528P X8652-1529P X8652-1644P
4		1. Black 2. Green 3. Red 4. White	600V, 20A	12	6' 12' 18'	X8653-1528P X8653-1529P X8653-1644P

## CHANGE-OUT SERIES A STOOW MALE PLUGS WITH NYLON COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 25A	12	6' 12' 18'	X8651-1516P X8651-1517P X8651-1640P
3		1. Black 2. White 3. Green	600V, 25A	12	6' 12' 18'	X8652-1516P X8652-222P X8652-1640P
4		1. Black 2. Green 3. Red 4. White	600V, 20A	12	6' 12' 18'	X8653-1516P X8653-1517P X8653-1640P




## CHANGE-OUT SERIES A STOOW FEMALE PLUGS WITH ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 30A	10	6' 12' 18'	X8651-645P X8651-646P X8651-647P
3		1. Black 2. White 3. Green	600V, 30A	10	6' 12' 18'	X8652-645P X8652-646P X8652-647P
4		1. Black 2. Green 3. Red 4. White	600V, 25A	10	6' 12' 18'	X8653-645P X8653-646P X8653-647P




Note: Special lengths available upon request — consult factory.






## CHANGE-OUT SERIES A STOOW MALE PLUGS WITH ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 30A	10	6' 12' 18'	X8651-641P X8651-642P X8651-643P
3		1. Black 2. White 3. Green	600V, 30A	10	6' 12' 18'	X8652-641P X8652-642P X8652-643P
4		1. Black 2. Green 3. Red 4. White	600V, 25A	10	6' 12' 18'	X8653-641P X8653-642P X8653-643P

## CHANGE-OUT SERIES A STOOW FEMALE PLUGS WITH NYLON COUPLING NUT




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 30A	10	6' 12' 18'	X8651-1645P X8651-1646P X8651-1647P
3		1. Black 2. White 3. Green	600V, 30A	10	6' 12' 18'	X8652-1645P X8652-1646P X8652-1647P
4		1. Black 2. Green 3. Red 4. White	600V, 25A	10	6' 12' 18'	X8653-1645P X8653-1646P X8653-1647P

## CHANGE-OUT SERIES A STOOW MALE PLUGS WITH NYLON COUPLING NUT




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. Black 2. White	600V, 30A	10	6' 12' 18'	X8651-1641P X8651-1642P X8651-1643P
3		1. Black 2. White 3. Green	600V, 30A	10	6' 12' 18'	X8652-1641P X8652-1642P X8652-1643P
4		1. Black 2. Green 3. Red 4. White	600V, 25A	10	6' 12' 18'	X8653-1641P X8653-1642P X8653-1643P

Note: Special lengths available upon request — consult factory.

## CHANGE-OUT SERIES A "SO" FEMALE PLUGS WITH ZINC DIECAST COUPLING NUT





POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
5		1. Red 2. White 3. Black 4. Orange 5. Green	300V, 6A	18	6' 12' 18'	X8872-5A X8872-7A X8872-9A
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	300V, 6A	18	6' 12' 18'	X8871-5A X8871-7A X8871-9A
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	300V, 5A	18	6' 12' 18'	X8870-5A X8870-8A X8870-10A

## CHANGE-OUT SERIES A "SO" MALE PLUGS WITH ZINC DIECAST COUPLING NUT





POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
5		1. Red 2. White 3. Black 4. Orange 5. Green	300V, 6A	18	6' 12' 18'	X8872-6A X8872-8A X8872-10A
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	300V, 6A	18	6' 12' 18'	X8871-6A X8871-8A X8871-10A
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	300V, 5A	18	6' 12' 18'	X8870-6A X8870-9A X8870-11A

Note: Special lengths available upon request — consult factory.

## CHANGE-OUT SERIES A "SO" FEMALE PLUGS WITH NYLON COUPLING NUT

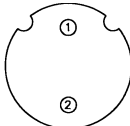
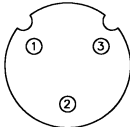
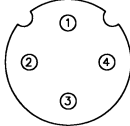
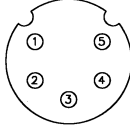
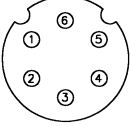
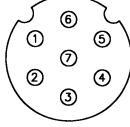
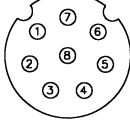
POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
5		1. Red	300V, 6A	18	6'	X8872-15A
		2. White			12'	X8872-17A
		3. Black			18'	X8872-19A
		4. Orange				
		5. Green				
6		1. Red	300V, 6A	18	6'	X8871-21A
		2. White			12'	X8871-23A
		3. Black			18'	X8871-25A
		4. Blue				
		5. Orange				
		6. Green				
7		1. Red	300V, 5A	18	6'	X8870-16A
		2. White			12'	X8870-18A
		3. Black			18'	X8870-20A
		4. Blue				
		5. Orange				
		6. Green				
		7. White-Black				
9		1. Green	110V, 3A	18	6'	X8980-7
		2. Red				
		3. White				
		4. Black				
		5. Red-Black				
		6. White-Black				
		7. Blue				
		8. Orange				
		9. Green-Black				

## CHANGE-OUT SERIES A "SO" MALE PLUGS WITH NYLON COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
5		1. Red	300V, 6A	18	6'	X8872-16A
		2. White			12'	X8872-18A
		3. Black			18'	X8872-20A
		4. Orange				
		5. Green				
6		1. Red	300V, 6A	18	6'	X8871-22A
		2. White			12'	X8871-24A
		3. Black			18'	X8871-26A
		4. Blue				
		5. Orange				
		6. Green				
7		1. Red	300V, 5A	18	6'	X8870-17A
		2. White			12'	X8870-19A
		3. Black			18'	X8870-21A
		4. Blue				
		5. Orange				
		6. Green				
		7. White-Black				
9		1. Green	110V, 3A	18	6'	X8980-10
		2. Red				
		3. White				
		4. Black				
		5. Red-Black				
		6. White-Black				
		7. Blue				
		8. Orange				
		9. Green-Black				

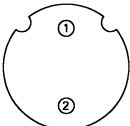
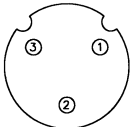
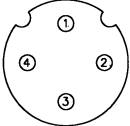
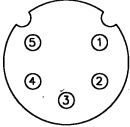
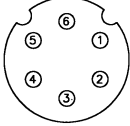
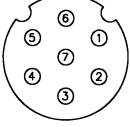
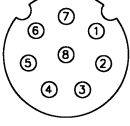
Note: Special lengths available upon request — consult factory.

# CHANGE-OUT SERIES B "SO" FEMALE PLUGS WITH MACHINED ALUMINUM COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. White 2. Black	600V, 25A	10	6' 12' 18'	X8881-5 X8881-7 X8881-9
3		1. Black 2. White 3. Green	600V, 25A	10	6' 12' 18'	X8880-5 X8880-7 X8880-9
4		1. Red 2. White 3. Black 4. Green	600V, 20A	10	6' 12' 18'	X8879-5 X8879-7 X8879-9
5		1. Red 2. White 3. Black 4. Orange 5. Green	600V, 20A	10	6' 12' 18'	X8878-5 X8878-7 X8878-9
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	600V, 20A	10	6' 12' 18'	X8877-7 X8877-9 X8877-11
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	600V, 18A	10	6' 12' 18'	X8876-7 X8876-9 X8876-11
8		1. Red 2. White 3. Black 4. White-Black 5. Blue 6. Orange 7. Green 8. Red-Black	600V, 11A	14	6' 12' 18'	X8916-5 X8916-6 X8916-7

Note: Special lengths available upon request — consult factory.

# CHANGE-OUT SERIES B "SO" MALE PLUGS WITH DIECAST ALUMINUM COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER
2		1. White 2. Black	600V, 25A	10	6' 12' 18'	X8881-6B X8881-8B X8881-10B
3		1. Black 2. White 3. Green	600V, 25A	10	6' 12' 18"	X8880-6B X8880-8B X8880-10B
4		1. Red 2. White 3. Black 4. Green	600V, 20A	10	6' 12' 18'	X8879-6B X8879-8B X8879-10B
5		1. Red 2. White 3. Black 4. Orange 5. Green	600V, 20A	10	6' 12' 18'	X8878-6B X8878-8B X8878-10B
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	600V, 20A	10	6' 12' 18'	X8877-8B X8877-10B X8877-12B
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	600V, 18A	10	6' 12' 18'	X8876-8B X8876-10B X8876-12B
8		1. Red 2. White 3. Black 4. White-Black 5. Blue 6. Orange 7. Green 8. Red-Black	600V, 11A	14	6' 12' 18'	X8916-8B X8916-9B X8916-10B

Note: Special lengths available upon request — consult factory.





# SPECIFICATIONS CHANGE-OUT RECEPTACLES

## Series A

- 2-9 Pole Configurations
- 2-4 Pole; #14 AWG, 12 AWG, 10 AWG
- 5-9 Pole; #18 AWG
- Lexan™ or Zinc Diecast Hardware

## Series B

- 2-8 Pole Configurations
- 2-7 Pole; #10 AWG
- 8 Pole; #14 AWG
- Anodized Aluminum Hardware



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

CSA Recognition:

File #E169897

File #LR13963

### Electrical Data

Current Rating:

Voltage Rating:

Dielectric Withstand Voltage:

See chart with part number detail

See chart with part number detail

2200 VAC

### Environmental Data

Protection:

Temperature Range:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

-20°C to +105°C

### Material Data

Body:

Pigtail Leads:

Contacts:

Receptacle Shell:

Series A: Black flame resistant PVC; Series B: Neoprene

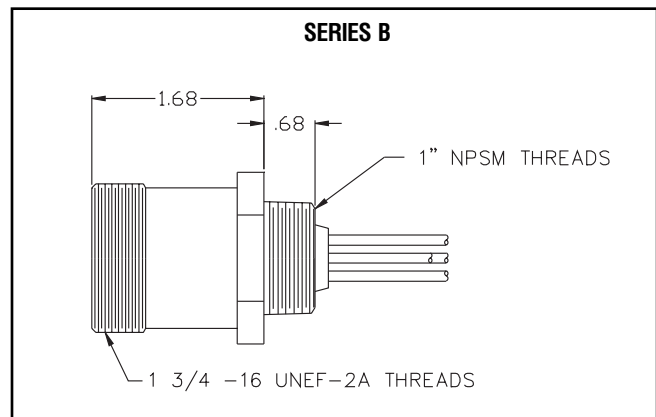
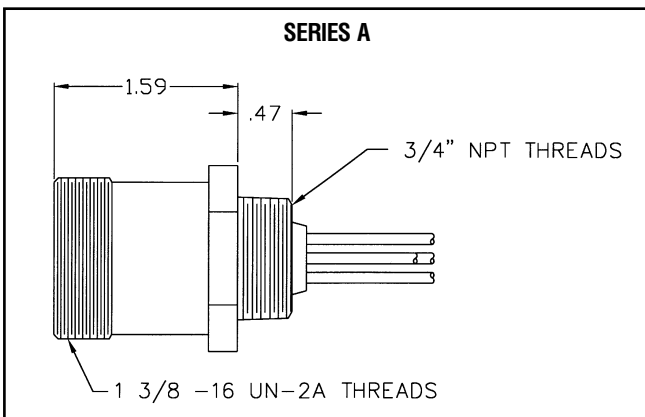
Color coded type MTW or AWM style 1015/1230

Machined Brass, copper

Series A: Zamak or Lexan™




Series B: Machined Aluminum

## DIMENSIONS






Lexan is a registered trademark of GE Plastics.




## CHANGE-OUT SERIES A FEMALE RECEPTACLES WITH ZINC DIECAST RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 18A	14	12"	1/2" 3/4"	X8651-10P X8651-11P
3		1. Black 2. White 3. Green	600V, 18A	14	12"	1/2" 3/4"	X8652-14P X8652-15P
4		1. Black 2. Green 3. Red 4. White	600V, 15A	14	12"	1/2" 3/4"	X8653-15P X8653-16P

## CHANGE-OUT SERIES A MALE RECEPTACLES WITH ZINC DIECAST RECEPTACLE SHELL




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 18A	14	12"	1/2" 3/4"	X8651-8P X8651-9P
3		1. Black 2. White 3. Green	600V, 18A	14	12"	1/2" 3/4"	X8652-12P X8652-13P
4		1. Black 2. Green 3. Red 4. White	600V, 15A	14	12"	1/2" 3/4"	X8653-13P X8653-14P

## CHANGE-OUT SERIES A FEMALE RECEPTACLES WITH LEXAN RECEPTACLE SHELL




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 18A	14	12"	1/2" 3/4"	X8651-76P X8651-84P
3		1. Black 2. White 3. Green	600V, 18A	14	12"	1/2" 3/4"	X8652-90P X8652-98P
4		1. Black 2. Green 3. Red 4. White	600V, 15A	14	12"	1/2" 3/4"	X8653-90P X8653-98P

Note: Special lead lengths available upon request — consult factory.




## CHANGE-OUT SERIES A MALE RECEPTACLES WITH LEXAN RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 18A	14	12"	1/2" 3/4"	X8651-77P X8651-85P
3		1. Black 2. White 3. Green	600V, 18A	14	12"	1/2" 3/4"	X8652-91P X8652-99P
4		1. Black 2. Green 3. Red 4. White	600V, 15A	14	12"	1/2" 3/4"	X8653-91P X8653-99P

## CHANGE-OUT SERIES A FEMALE RECEPTACLES WITH ZINC DIECAST RECEPTACLE SHELL




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 25A	12	12"	1/2" 3/4"	X8651-654P X8651-655P
3		1. Black 2. White 3. Green	600V, 25A	12	12"	1/2" 3/4"	X8652-654P X8652-686P
4		1. Black 2. Green 3. Red 4. White	600V, 20A	12	12"	1/2" 3/4"	X8653-654P X8653-655P

## CHANGE-OUT SERIES A MALE RECEPTACLES WITH ZINC DIECAST RECEPTACLE SHELL




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT THREAD	PART NUMBER
2		1. Black 2. White	600V, 25A	12	12"	1/2" 3/4"	X8651-648P X8651-649P
3		1. Black 2. White 3. Green	600V, 25A	12	12"	1/2" 3/4"	X8652-255P X8652-649P
4		1. Black 2. Green 3. Red 4. White	600V, 20A	12	12"	1/2" 3/4"	X8653-18P X8653-17P

Note: Special lead lengths available upon request — consult factory.




## CHANGE-OUT SERIES A FEMALE RECEPTACLES WITH LEXAN RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 25A	12	12"	1/2" 3/4"	X8651-1654P X8651-1655P
3		1. Black 2. White 3. Green	600V, 25A	12	12"	1/2" 3/4"	X8652-221P X8652-262P
4		1. Black 2. Green 3. Red 4. White	600V, 20A	12	12"	1/2" 3/4"	X8653-1634P X8653-383P

## CHANGE-OUT SERIES A MALE RECEPTACLES WITH LEXAN RECEPTACLE SHELL




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 25A	12	12"	1/2" 3/4"	X8651-1648P X8651-1649P
3		1. Black 2. White 3. Green	600V, 25A	12	12"	1/2" 3/4"	X8652-219P X8652-1649P
4		1. Black 2. Green 3. Red 4. White	600V, 20A	12	12"	1/2" 3/4"	X8653-253P X8653-1649P

## CHANGE-OUT SERIES A FEMALE RECEPTACLES WITH ZINC DIECAST RECEPTACLE SHELL




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 30A	10	12"	1/2" 3/4"	X8651-656P X8651-657P
3		1. Black 2. White 3. Green	600V, 30A	10	12"	1/2" 3/4"	X8652-656P X8652-657P
4		1. Black 2. Green 3. Red 4. White	600V, 25A	10	12"	1/2" 3/4"	X8653-656P X8653-657P

Note: Special lead lengths available upon request — consult factory.




## CHANGE-OUT SERIES A MALE RECEPTACLES WITH ZINC DIECAST RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 30A	10	12"	1/2" 3/4"	X8651-650P X8651-651P
3		1. Black 2. White 3. Green	600V, 30A	10	12"	1/2" 3/4"	X8652-650P X8652-651P
4		1. Black 2. Green 3. Red 4. White	600V, 25A	10	12"	1/2" 3/4"	X8653-650P X8653-651P

## CHANGE-OUT SERIES A FEMALE RECEPTACLES WITH LEXAN RECEPTACLE SHELL




POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 30A	10	12"	1/2" 3/4"	X8651-1656P X8651-1657P
3		1. Black 2. White 3. Green	600V, 30A	10	12"	1/2" 3/4"	X8652-1656P X8652-1657P
4		1. Black 2. Green 3. Red 4. White	600V, 25A	10	12"	1/2" 3/4"	X8653-1656P X8653-384P

## CHANGE-OUT SERIES A MALE RECEPTACLES WITH LEXAN RECEPTACLE SHELL




POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. Black 2. White	600V, 30A	10	12"	1/2" 3/4"	X8651-1650P X8651-1651P
3		1. Black 2. White 3. Green	600V, 30A	10	12"	1/2" 3/4"	X8652-1650P X8652-1651P
4		1. Black 2. Green 3. Red 4. White	600V, 25A	10	12"	1/2" 3/4"	X8653-1650P X8653-1651P

Note: Special lead lengths available upon request — consult factory.

## CHANGE-OUT SERIES A FEMALE RECEPTACLES WITH ZINC DIECAST RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
5		1. Red 2. White 3. Black 4. Orange 5. Green	300V, 6A	18	12"	1/2" 3/4"	X8872-1B X8872-11B
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	300V, 6A	18	12"	1/2" 3/4"	X8871-1B X8871-11B
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	300V, 5A	18	12"	1/2" 3/4"	X8870-12B X8870-2B





## CHANGE-OUT SERIES A MALE RECEPTACLES WITH ZINC DIECAST RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
5		1. Red 2. White 3. Black 4. Orange 5. Green	300V, 6A	18	12"	1/2" 3/4"	X8872-3B X8872-12B
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	300V, 6A	18	12"	1/2" 3/4"	X8871-3B X8871-12B
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	300V, 5A	18	12"	1/2" 3/4"	X8870-13B X8870-4B





Note: Special lead lengths available upon request — consult factory.



## CHANGE-OUT SERIES A FEMALE RECEPTACLES WITH LEXAN RECEPTACLE SHELL

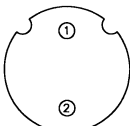
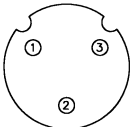
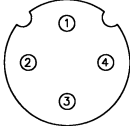
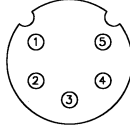
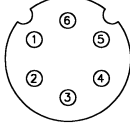
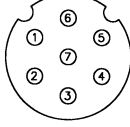
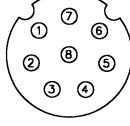
POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
5		1. Red 2. White 3. Black 4. Orange 5. Green	300V, 6A	18	12"	1/2" 3/4"	X8872-13B X8872-21B
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	300V, 6A	18	12"	1/2" 3/4"	X8871-19B X8871-27B
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	300V, 5A	18	12"	1/2" 3/4"	X8870-22B X8870-14B
9		1. Green 2. Red 3. White 4. Black 5. Red-Black 6. White-Black 7. Blue 8. Orange 9. Green-Black	110V, 3A	18	12"	3/4"	X8980-3B

## CHANGE-OUT SERIES A MALE RECEPTACLES WITH LEXAN RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
5		1. Red 2. White 3. Black 4. Orange 5. Green	300V, 30A	6	12"	1/2" 3/4"	X8872-14B X8872-22B
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	300V, 30A	6	12"	1/2" 3/4"	X8871-20B X8871-28B
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	300V, 25A	5	12"	1/2" 3/4"	X8870-23B X8870-15B
9		1. Green 2. Red 3. White 4. Black 5. Red-Black 6. White-Black 7. Blue 8. Orange 9. Green-Black	110V, 25A	3	12"	3/4"	X8980-5B

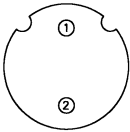
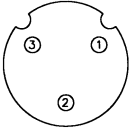
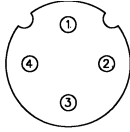
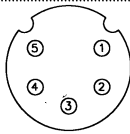
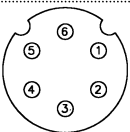
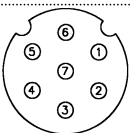
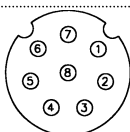
Note: Special lead lengths available upon request — consult factory.

# CHANGE-OUT SERIES B FEMALE RECEPTACLES WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. White 2. Black	600V, 25A	10	12"	1"	X8881-1
3		1. Black 2. White 3. Green	600V, 25A	10	12"	1"	X8880-1
4		1. Red 2. White 3. Black 4. Green	600V, 20A	10	12"	1"	X8879-1
5		1. Red 2. White 3. Black 4. Orange 5. Green	600V, 20A	10	12"	1"	X8878-1
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	600V, 20A	10	12"	1"	X8877-1
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	600V, 18A	10	12"	1"	X8876-1
8		1. Red 2. White 3. Black 4. White-Black 5. Blue 6. Orange 7. Green 8. Red-Black	600V, 11A	14	12"	1"	X8916-1

Note: Special lead lengths available upon request — consult factory.

# CHANGE-OUT SERIES B MALE RECEPTACLES WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	1/C PIGTAIL	NPT PIPE THREAD	PART NUMBER
2		1. White 2. Black	600V, 25A	10	12"	1"	X8881-3B
3		1. Black 2. White 3. Green	600V, 25A	10	12"	1"	X8880-3B
4		1. Red 2. White 3. Black 4. Green	600V, 20A	10	12"	1"	X8879-3B
5		1. Red 2. White 3. Black 4. Orange 5. Green	600V, 20A	10	12"	1"	X8878-3B
6		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green	600V, 20A	10	12"	1"	X8877-3B
7		1. Red 2. White 3. Black 4. Blue 5. Orange 6. Green 7. White-Black	600V, 18A	10	12"	1"	X8876-3B
8		1. Red 2. White 3. Black 4. White-Black 5. Blue 6. Orange 7. Green 8. Red-Black	600V, 11A	14	12"	1"	X8916-3B

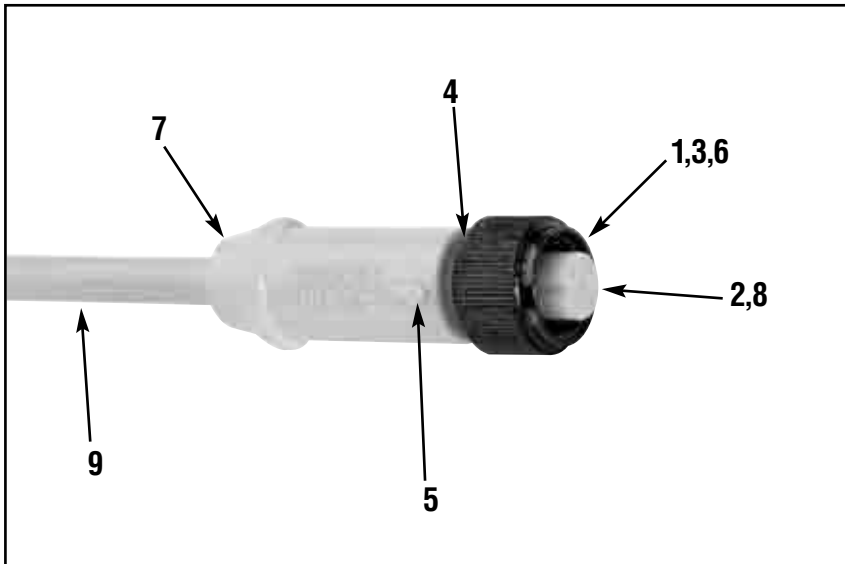
Note: Special lead lengths available upon request — consult factory.

# MICRO-MINI CONNECTORS

**“THE  
TOUGH LINE  
FOR TOUGH  
JOBS”**

Crouse-Hinds has the largest selection of Micro-Mini connectors available on the market today. Our tough lines of connectors have been designed for low amperage AC or DC control systems and are ideally suited for use in abusive manufacturing environments. Our plugs are compatible with the pin configurations used by major sensor manufacturers in the U.S. and Europe and meet the current SAE H1738-2 specifications.

Factory molded-to-cable for durability, the Micro-Mini connectors are available with or without braided cable and with metal or nylon coupling nuts. Contact inserts are securely bonded in place using a unique and proprietary process.



## FEATURES & BENEFITS

- 1 **Epoxy-coated coupler** that passes 1000-hour salt-spray test per MIL-STD 202F for exceptional corrosion resistance.
- 2 **Heavy-duty contact insert** provides superior strength for your most abusive applications.
- 3 **Vibration-resistant ratchet coupler** design prevents loosening in severe, high-vibration applications.
- 4 **Superior side load strength** in excess of 100 lbs., which surpasses current industry standards by five times.
- 5 **Indicating arrow** for easy identification and proper keyway alignment.
- 6 **Internal gasket** assures watertight performance to IP-68 and NEMA 6P rating.
- 7 **Connector-to-cable molded junction** securely bonds for excellent reliability.
- 8 **Gold plated contacts** provide superior conductivity and corrosion resistance.
- 9 **Easy stripping PVC jacketed cable** with “fillerless” design allows fast stripping with simple hand tools with high-flex “tinned copper stranding for improved flexibility.  
**Cable options** available for industrial applications with the following types:
  - **AWM cable** with PVC jacket having oil resistant jacket and conductors
  - **Polyurethane “PUR” cable** with jacket having excellent oil and abrasion resistance
  - **SJOOW “thermoset” cable** with oil resistant jacket/conductors with higher resistance to automotive fluids
  - **“TPE” cable** with oil resistant jacket/conductors having elastomer jacket
  - **High-flex ROBOTIC cable** provides superior flexing in applications where combined continuous twisting and bending stresses occur.
- 10 Every unit is **100% electrically tested** using state of the art automated test equipment.

# SPECIFICATIONS MICRO-MINI DUAL KEY AC PLUGS (2-6 POLE)

- Male and Female Plugs
- 22 AWG Standard Color Code
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Rigid black Polyurethane

Cable:

Yellow, AWM UL style 2661

Contacts:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

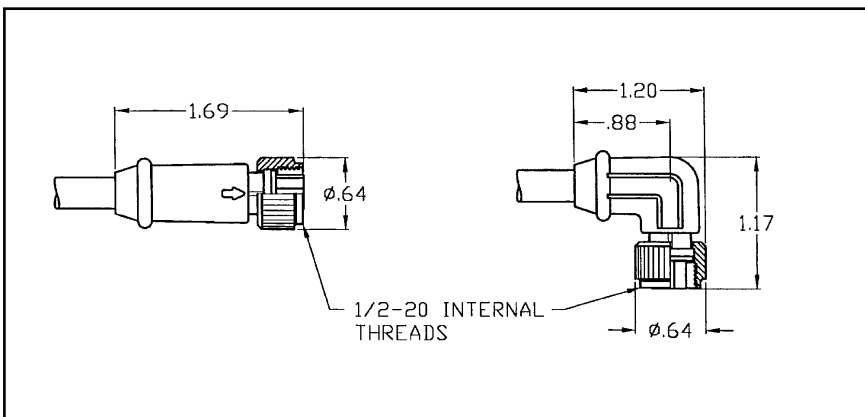
Coupling Nut:

Diecast Zamak 5 with black epoxy coat






Nylon 6/6 weather stabilized

303 Stainless Steel






## DIMENSIONS



## MICRO-MINI DUAL KEY FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 4A	22	6'	5000113-2	5000113-5
					12'	5000113-3	5000113-6
					20'	5000113-4	5000113-7
					25'	5000113-4019	5000113-4020
					30'	5000113-4021	5000113-4022
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6'	5000114-2	5000114-5
					12'	5000114-3	5000114-6
					20'	5000114-4	5000114-7
					25'	5000114-4025	5000114-4096
					30'	5000114-4097	5000114-4063
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6'	5000115-2	5000115-5
					12'	5000115-3	5000115-6
					20'	5000115-4	5000115-7
					25'	5000115-4052	5000115-4053
					30'	5000115-4054	5000115-4055
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6'	5000116-2	5000116-5
					12'	5000116-3	5000116-6
					20'	5000116-4	5000116-7
					25'	5000116-4054	5000116-4055
					30'	5000116-4056	5000116-4057
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	6'	5000127-2	5000127-5
					12'	5000127-3	5000127-6
					20'	5000127-4	5000127-7
					25'	5000127-4016	5000127-4017
					30'	5000127-4018	5000127-4019






## MICRO-MINI DUAL KEY MALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 4A	22	6'	5000113-28	5000113-31
					12'	5000113-29	5000113-32
					20'	5000113-30	5000113-33
					25'	5000113-4024	5000113-4002
					30'	5000113-4026	5000113-4027
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6'	5000114-28	5000114-31
					12'	5000114-29	5000114-32
					20'	5000114-30	5000114-33
					25'	5000114-4098	5000114-4099
					30'	5000114-4100	5000114-4101
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6'	5000115-28	5000115-31
					12'	5000115-29	5000115-32
					20'	5000115-30	5000115-33
					25'	5000115-4056	5000115-4057
					30'	5000115-4058	5000115-4059
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6'	5000116-28	5000116-31
					12'	5000116-29	5000116-32
					20'	5000116-30	5000116-33
					25'	5000116-4058	5000116-4059
					30'	5000116-4060	5000116-4061
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	6'	5000127-28	5000127-31
					12'	5000127-29	5000127-32
					20'	5000127-30	5000127-33
					25'	5000127-4020	5000127-4021
					30'	5000127-4022	5000127-4023





Note: Special lengths available upon request — consult factory.



## MICRO-MINI DUAL KEY FEMALE PLUG WITH NYLON COUPLING NUT






POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 4A	22	6' 12' 20' 25' 30'	5000113-2N 5000113-3N 5000113-4N 5000113-4019N 5000113-4021N	5000113-5N 5000113-6N 5000113-7N 5000113-4020N 5000113-4022N
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6' 12' 20' 25' 30'	5000114-2N 5000114-3N 5000114-4N 5000114-4025N 5000114-4097N	5000114-5N 5000114-6N 5000114-7N 5000114-4096N 5000114-4063N
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6' 12' 20' 25' 30'	5000115-2N 5000115-3N 5000115-4N 5000115-4052N 5000115-4054N	5000115-5N 5000115-6N 5000115-7N 5000115-4053N 5000115-4055N
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6' 12' 20' 25' 30'	5000116-2N 5000116-3N 5000116-4N 5000116-4054N 5000116-4056N	5000116-5N 5000116-6N 5000116-7N 5000116-4055N 5000116-4057N
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	6' 12' 20' 25' 30'	5000127-2N 5000127-3N 5000127-4N 5000127-4016N 5000127-4018N	5000127-5N 5000127-6N 5000127-7N 5000127-4017N 5000127-4019N

## MICRO-MINI DUAL KEY MALE PLUG WITH NYLON COUPLING NUT






POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 4A	22	6' 12' 20' 25' 30'	5000113-28N 5000113-29N 5000113-30N 5000113-4024N 5000113-4026N	5000113-31N 5000113-32N 5000113-33N 5000113-4002N 5000113-4027N
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6' 12' 20' 25' 30'	5000114-28N 5000114-29N 5000114-30N 5000114-4098N 5000114-4100N	5000114-31N 5000114-32N 5000114-33N 5000114-4099N 5000114-4101N
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6' 12' 20' 25' 30'	5000115-28N 5000115-29N 5000115-30N 5000115-4056N 5000115-4058N	5000115-31N 5000115-32N 5000115-33N 5000115-4057N 5000115-4059N
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6' 12' 20' 25' 30'	5000116-28N 5000116-29N 5000116-30N 5000116-4058N 5000116-4060N	5000116-31N 5000116-32N 5000116-33N 5000116-4059N 5000116-4061N
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	6' 12' 20' 25' 30'	5000127-28N 5000127-29N 5000127-30N 5000127-4020N 5000127-4022N	5000127-31N 5000127-32N 5000127-33N 5000127-4021N 5000127-4023N

Note: Special lengths available upon request — consult factory.

## MICRO-MINI DUAL KEY FEMALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 4A	22	6'	5000113-2X	5000113-5X
					12'	5000113-3X	5000113-6X
					20'	5000113-4X	5000113-7X
					25'	5000113-4019X	5000113-4020X
					30'	5000113-4021X	5000113-4022X
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6'	5000114-2X	5000114-5X
					12'	5000114-3X	5000114-6X
					20'	5000114-4X	5000114-7X
					25'	5000114-4025X	5000114-4096X
					30'	5000114-4097X	5000114-4063X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6'	5000115-2X	5000115-5X
					12'	5000115-3X	5000115-6X
					20'	5000115-4X	5000115-7X
					25'	5000115-4052X	5000115-4053X
					30'	5000115-4054X	5000115-4055X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6'	5000116-2X	5000116-5X
					12'	5000116-3X	5000116-6X
					20'	5000116-4X	5000116-7X
					25'	5000116-4054X	5000116-4055X
					30'	5000116-4056X	5000116-4057X
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	6'	5000127-2X	5000127-5X
					12'	5000127-3X	5000127-6X
					20'	5000127-4X	5000127-7X
					25'	5000127-4016X	5000127-4017X
					30'	5000127-4018X	5000127-4019X

## MICRO-MINI DUAL KEY MALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 4A	22	6'	5000113-28X	5000113-31X
					12'	5000113-29X	5000113-32X
					20'	5000113-30X	5000113-33X
					25'	5000113-4024X	5000113-4002X
					30'	5000113-4026X	5000113-4027X
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6'	5000114-28X	5000114-31X
					12'	5000114-29X	5000114-32X
					20'	5000114-30X	5000114-33X
					25'	5000114-4098X	5000114-4099X
					30'	5000114-4100X	5000114-4101X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6'	5000115-28X	5000115-31X
					12'	5000115-29X	5000115-32X
					20'	5000115-30X	5000115-33X
					25'	5000115-4056X	5000115-4057X
					30'	5000115-4058X	5000115-4059X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6'	5000116-28X	5000116-31X
					12'	5000116-29X	5000116-32X
					20'	5000116-30X	5000116-33X
					25'	5000116-4058X	5000116-4059X
					30'	5000116-4060X	5000116-4061X
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	6'	5000127-28X	5000127-31X
					12'	5000127-29X	5000127-32X
					20'	5000127-30X	5000127-33X
					25'	5000127-4020X	5000127-4021X
					30'	5000127-4022X	5000127-4023X

Note: Special lengths available upon request — consult factory.

# SPECIFICATIONS MICRO-MINI DUAL KEY AC PLUGS (2-5 POLE)

- Male and Female Plugs
- 18 AWG Standard Color Code
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Rigid black Polyurethane

Cable:

Yellow, AWM UL style 2661

Contacts:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

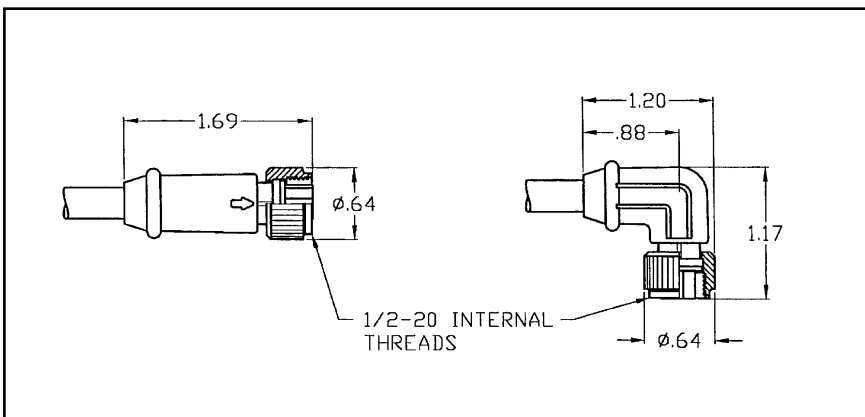
Coupling Nut:

Diecast Zamak 5 with black epoxy coat





Nylon 6/6 weather stabilized

303 Stainless Steel





## DIMENSIONS



## MICRO-MINI DUAL KEY FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT





POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 5A	18	6'	5000113-8	5000113-11
					12'	5000113-9	5000113-12
					20'	5000113-10	5000113-13
					25'	5000113-4036	5000113-4037
					30'	5000113-4038	5000113-4039
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-8	5000114-11
					12'	5000114-9	5000114-12
					20'	5000114-10	5000114-13
					25'	5000114-4111	5000114-4112
					30'	5000114-4037	5000114-4045
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-8	5000115-11
					12'	5000115-9	5000115-12
					20'	5000115-10	5000115-13
					25'	5000115-4067	5000115-4068
					30'	5000115-4033	5000115-4069
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-8	5000116-11
					12'	5000116-9	5000116-12
					20'	5000116-10	5000116-13
					25'	5000116-4069	5000116-4070
					30'	5000116-4071	5000116-4072

## MICRO-MINI DUAL KEY MALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT





POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 5A	18	6'	5000113-20	5000113-23
					12'	5000113-21	5000113-24
					20'	5000113-22	5000113-25
					25'	5000113-4041	5000113-4042
					30'	5000113-4043	5000113-4044
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-20	5000114-23
					12'	5000114-21	5000114-24
					20'	5000114-22	5000114-25
					25'	5000114-4114	5000114-4115
					30'	5000114-4116	5000114-4117
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-20	5000115-23
					12'	5000115-21	5000115-24
					20'	5000115-22	5000115-25
					25'	5000115-4070	5000115-4071
					30'	5000115-4072	5000115-4073
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-20	5000116-23
					12'	5000116-21	5000116-24
					20'	5000116-22	5000116-25
					25'	5000116-4074	5000116-4075
					30'	5000116-4039	5000116-4076

Note: Special lengths available upon request — consult factory.

## MICRO-MINI DUAL KEY FEMALE PLUG WITH NYLON COUPLING NUT





POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 5A	18	6' 12' 20' 25' 30'	5000113-8N 5000113-9N 5000113-10N 5000113-4036N 5000113-4038N	5000113-11N 5000113-12N 5000113-13N 5000113-4037N 5000113-4039N
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6' 12' 20' 25' 30'	5000114-8N 5000114-9N 5000114-10N 5000114-4111N 5000114-4037N	5000114-11N 5000114-12N 5000114-13N 5000114-4112N 5000114-4045N
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6' 12' 20' 25' 30'	5000115-8N 5000115-9N 5000115-10N 5000115-4067N 5000115-4033N	5000115-11N 5000115-12N 5000115-13N 5000115-4068N 5000115-4069N
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6' 12' 20' 25' 30'	5000116-8N 5000116-9N 5000116-10N 5000116-4069N 5000116-4071N	5000116-11N 5000116-12N 5000116-13N 5000116-4070N 5000116-4072N

## MICRO-MINI DUAL KEY MALE PLUG WITH NYLON COUPLING NUT





POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 5A	18	6' 12' 20' 25' 30'	5000113-20N 5000113-21N 5000113-22N 5000113-4041N 5000113-4043N	5000113-23N 5000113-24N 5000113-25N 5000113-4042N 5000113-4044N
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6' 12' 20' 25' 30'	5000114-20N 5000114-21N 5000114-22N 5000114-4114N 5000114-4116N	5000114-23N 5000114-24N 5000114-25N 5000114-4115N 5000114-4117N
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6' 12' 20' 25' 30'	5000115-20N 5000115-21N 5000115-22N 5000115-4070N 5000115-4072N	5000115-23N 5000115-24N 5000115-25N 5000115-4071N 5000115-4073N
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6' 12' 20' 25' 30'	5000116-20N 5000116-21N 5000116-22N 5000116-4074N 5000116-4039N	5000116-23N 5000116-24N 5000116-25N 5000116-4075N 5000116-4076N

Note: Special lengths available upon request — consult factory.

## MICRO-MINI DUAL KEY FEMALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 5A	18	6'	5000113-8X	5000113-11X
					12'	5000113-9X	5000113-12X
					20'	5000113-10X	5000113-13X
					25'	5000113-4036X	5000113-4037X
					30'	5000113-4038X	5000113-4039X
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-8X	5000114-11X
					12'	5000114-9X	5000114-12X
					20'	5000114-10X	5000114-13X
					25'	5000114-4111X	5000114-4112X
					30'	5000114-4037X	5000114-4045X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-8X	5000115-11X
					12'	5000115-9X	5000115-12X
					20'	5000115-10X	5000115-13X
					25'	5000115-4067X	5000115-4068X
					30'	5000115-4033X	5000115-4069X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-8X	5000116-11X
					12'	5000116-9X	5000116-12X
					20'	5000116-10X	5000116-13X
					25'	5000116-4069X	5000116-4070X
					30'	5000116-4071X	5000116-4072X

## MICRO-MINI DUAL KEY MALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 5A	18	6'	5000113-20X	5000113-23X
					12'	5000113-21X	5000113-24X
					20'	5000113-22X	5000113-25X
					25'	5000113-4041X	5000113-4042X
					30'	5000113-4043X	5000113-4044X
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-20X	5000114-23X
					12'	5000114-21X	5000114-24X
					20'	5000114-22X	5000114-25X
					25'	5000114-4114X	5000114-4115X
					30'	5000114-4116X	5000114-4117X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-20X	5000115-23X
					12'	5000115-21X	5000115-24X
					20'	5000115-22X	5000115-25X
					25'	5000115-4070X	5000115-4071X
					30'	5000115-4072X	5000115-4073X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-20X	5000116-23X
					12'	5000116-21X	5000116-24X
					20'	5000116-22X	5000116-25X
					25'	5000116-4074X	5000116-4075X
					30'	5000116-4039X	5000116-4076X

Note: Special lengths available upon request — consult factory.



# SPECIFICATIONS MICRO-MINI DUAL KEY AC PLUGS WITH BRAIDED CABLE (3 AND 5 POLE)

- Male, Female and Male-In-Line Plugs
- 22 AWG Standard Color Code
- 300V 105°C AWM Braided Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Rigid black Polyurethane

Cable:

Yellow, AWM UL style 2661, with 85% coverage braided shield

Contacts:

Machined Brass

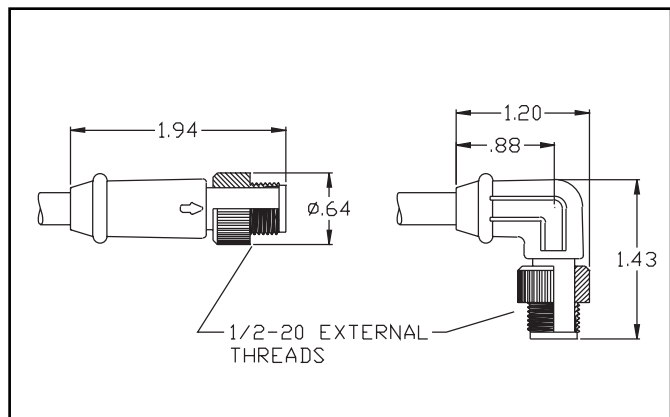
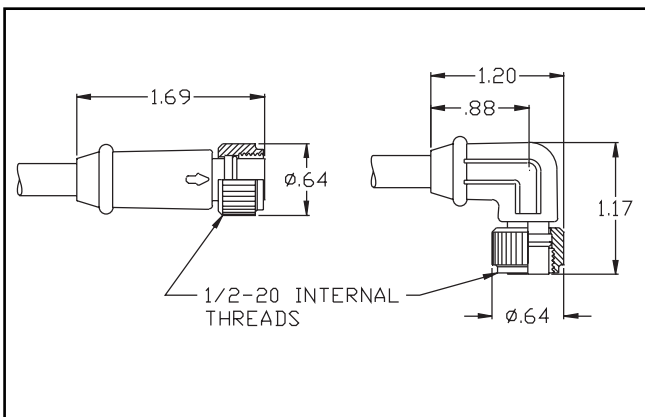
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel



Coupling Nut:

Diecast Zamak 5 with black epoxy coat



## DIMENSIONS





## MICRO-MINI DUAL KEY FEMALE PLUG WITH BRAIDED CABLE

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6'	5000114-2B	5000114-5B
					12'	5000114-3B	5000114-6B
					20'	5000114-4B	5000114-7B
					25'	5000114-4025B	5000114-4026B
					30'	5000114-4097B	5000114-4063B
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6'	5000116-2B	5000116-5B
					12'	5000116-3B	5000116-6B
					20'	5000116-4B	5000116-7B
					25'	5000116-4054B	5000116-4055B
					30'	5000116-4056B	5000116-4057B

## MICRO-MINI DUAL KEY MALE PLUG WITH BRAIDED CABLE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6'	5000114-28B	5000114-31B
					12'	5000114-29B	5000114-32B
					20'	5000114-30B	5000114-33B
					25'	5000114-4098B	5000114-4099B
					30'	5000114-4100B	5000114-4101B
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6'	5000116-28B	5000116-31B
					12'	5000116-29B	5000116-32B
					20'	5000116-30B	5000116-33B
					25'	5000116-4058B	5000116-4059B
					30'	5000116-4060B	5000116-4061B

## MICRO-MINI DUAL KEY MALE-IN-LINE PLUG WITH BRAIDED CABLE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6'	5000114-59B	5000114-65B
					12'	5000114-60B	5000114-66B
					20'	5000114-61B	5000114-67B
					25'	5000114-4107B	5000114-4108B
					30'	5000114-4109B	5000114-4110B
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6'	5000116-59B	5000116-65B
					12'	5000116-60B	5000116-66B
					20'	5000116-61B	5000116-67B
					25'	5000116-4065B	5000116-4066B
					30'	5000116-4067B	5000116-4068B

Cable: Yellow, AWM UL style 2661, with 85% coverage braided shield

Note: Special lengths available upon request — consult factory.

Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MICRO-MINI DUAL KEY AC MALE-IN-LINE PLUGS (2-6 POLE)

- 22 AWG Standard Color Code
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Rigid black Polyurethane

Cable:

Yellow, AWM UL style 2661

Contacts:

Machined Brass

Contact Plating:

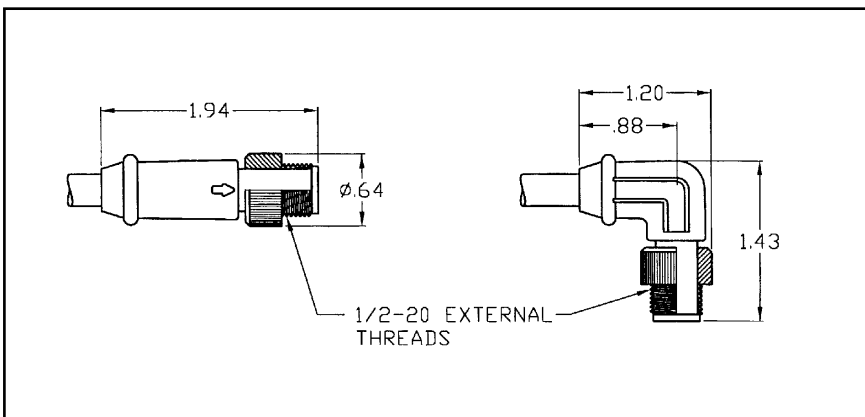
30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:






Diecast Zamak 5 with black epoxy coat

303 Stainless Steel






## DIMENSIONS



## MICRO-MINI DUAL KEY MALE-IN-LINE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 4A	22	6' 12' 20' 25' 30'	5000113-59 5000113-60 5000113-61 5000113-4029 5000113-4031	5000113-65 5000113-66 5000113-67 5000113-4030 5000113-4032
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6' 12' 20' 25' 30'	5000114-59 5000114-60 5000114-61 5000114-4107 5000114-4109	5000114-65 5000114-66 5000114-67 5000114-4108 5000114-4110
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6' 12' 20' 25' 30'	5000115-59 5000115-60 5000115-61 5000115-4063 5000115-4065	5000115-65 5000115-66 5000115-67 5000115-4064 5000115-4066
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6' 12' 20' 25' 30'	5000116-59 5000116-60 5000116-61 5000116-4065 5000116-4067	5000116-65 5000116-66 5000116-67 5000116-4066 5000116-4068
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	6' 12' 20' 25' 30'	5000127-59 5000127-60 5000127-61 5000127-4029 5000127-4031	5000127-65 5000127-66 5000127-67 5000127-4030 5000127-4032

## MICRO-MINI DUAL KEY MALE-IN-LINE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 4A	22	6' 12' 20' 25' 30'	5000113-59X 5000113-60X 5000113-61X 5000113-4029X 5000113-4031X	5000113-65X 5000113-66X 5000113-67X 5000113-4030X 5000113-4032X
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6' 12' 20' 25' 30'	5000114-59X 5000114-60X 5000114-61X 5000114-4107X 5000114-4109X	5000114-65X 5000114-66X 5000114-67X 5000114-4108X 5000114-4110X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6' 12' 20' 25' 30'	5000115-59X 5000115-60X 5000115-61X 5000115-4063X 5000115-4065X	5000115-65X 5000115-66X 5000115-67X 5000115-4064X 5000115-4066X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6' 12' 20' 25' 30'	5000116-59X 5000116-60X 5000116-61X 5000116-4065X 5000116-4067X	5000116-65X 5000116-66X 5000116-67X 5000116-4066X 5000116-4068X
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	6' 12' 20' 25' 30'	5000127-59X 5000127-60X 5000127-61X 5000127-4029X 5000127-4031X	5000127-65X 5000127-66X 5000127-67X 5000127-4030X 5000127-4032X

Note: Special lengths available upon request — consult factory.

# SPECIFICATIONS MICRO-MINI DUAL KEY AC MALE-IN-LINE PLUGS (2-5 POLE)

- 18 AWG Standard Color Code
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Rigid black Polyurethane

Cable:

Yellow, AWM UL style 2661

Contacts:

Machined Brass

Contact Plating:

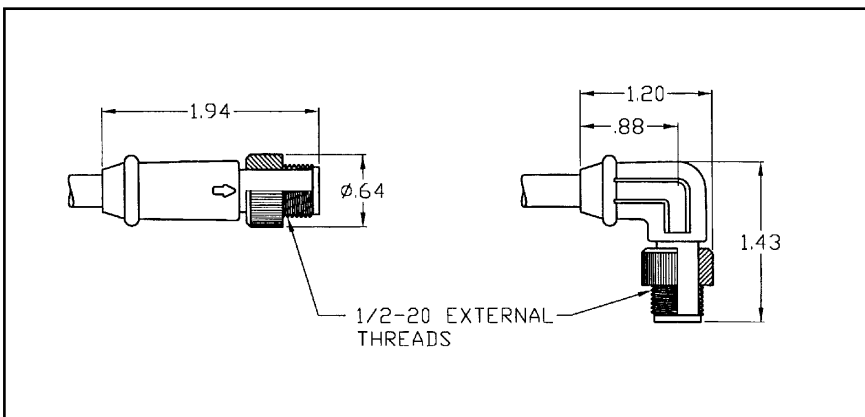
30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:





Diecast Zamak 5 with black epoxy coat

303 Stainless Steel





## DIMENSIONS



## MICRO-MINI DUAL KEY MALE-IN-LINE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 5A	18	6'	5000113-62	5000113-68
					12'	5000113-63	5000113-69
					20'	5000113-64	5000113-70
					25'	5000113-4049	5000113-4050
					30'	5000113-4051	5000113-4052
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-62	5000114-68
					12'	5000114-63	5000114-69
					20'	5000114-64	5000114-70
					25'	5000114-4121	5000114-4122
					30'	5000114-4123	5000114-4124
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-62	5000115-68
					12'	5000115-63	5000115-69
					20'	5000115-64	5000115-70
					25'	5000115-4076	5000115-4077
					30'	5000115-4078	5000115-4079
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-62	5000116-68
					12'	5000116-63	5000116-69
					20'	5000116-64	5000116-70
					25'	5000116-4082	5000116-4083
					30'	5000116-4084	5000116-4085

## MICRO-MINI DUAL KEY MALE-IN-LINE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
2		1. Brown 2. Blue	300V, 5A	18	6'	5000113-62X	5000113-68X
					12'	5000113-63X	5000113-69X
					20'	5000113-64X	5000113-70X
					25'	5000113-4049X	5000113-4050X
					30'	5000113-4051X	5000113-4052X
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-62X	5000114-68X
					12'	5000114-63X	5000114-69X
					20'	5000114-64X	5000114-70X
					25'	5000114-4121X	5000114-4122X
					30'	5000114-4123X	5000114-4124X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-62X	5000115-68X
					12'	5000115-63X	5000115-69X
					20'	5000115-64X	5000115-70X
					25'	5000115-4076X	5000115-4077X
					30'	5000115-4078X	5000115-4079X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-62X	5000116-68X
					12'	5000116-63X	5000116-69X
					20'	5000116-64X	5000116-70X
					25'	5000116-4082X	5000116-4083X
					30'	5000116-4084X	5000116-4085X

Note: Special lengths available upon request — consult factory.



# SPECIFICATIONS MICRO-MINI DUAL KEY MALE TO FEMALE EXTENSIONS (2-6 POLE)

- 18 and 22 AWG Standard Color Code
- 300V 105°C AWM Cable
- Straight and Right Angle Versions Available – C/F
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Rigid black Polyurethane

Cable:

Yellow, AWM UL style 2661

Contacts:

Machined Brass

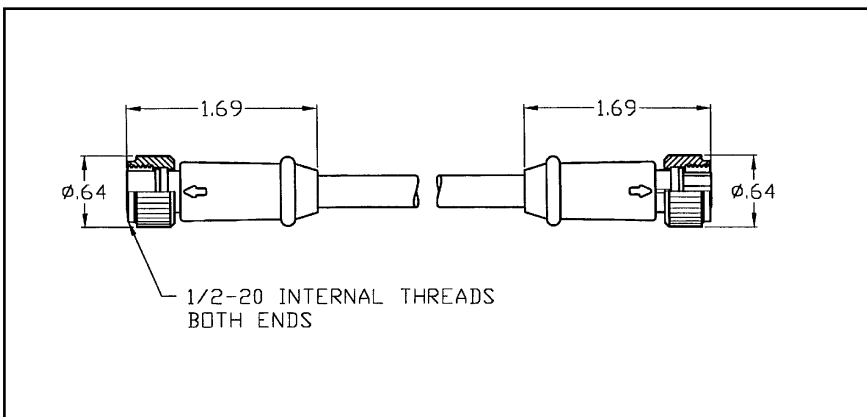
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:






Diecast Zamak 5 with black epoxy coat

## DIMENSIONS







## MICRO-MINI DUAL KEY MALE TO FEMALE EXTENSIONS

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
2		1. Brown 2. Blue	300V, 4A	22	6' 12' 20' 25' 30'	5000113-204 5000113-205 5000113-206 5000113-4053 5000113-4054
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	6' 12' 20' 25' 30'	5000114-204 5000114-205 5000114-206 5000114-4125 5000114-4126
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	6' 12' 20' 25' 30'	5000115-204 5000115-205 5000115-206 5000115-4080 5000115-4081
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	6' 12' 20' 25' 30'	5000116-204 5000116-205 5000116-206 5000116-4086 5000116-4087
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 4A	22	6' 12' 20' 25' 30'	5000127-204 5000127-205 5000127-206 5000127-4035 5000127-4036

## MICRO-MINI DUAL KEY MALE TO FEMALE EXTENSIONS

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSIONS
2		1. Brown 2. Blue	300V, 5A	18	6' 12' 20' 25' 30'	5000113-201 5000113-202 5000113-203 5000113-4055 5000113-4056
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6' 12' 20' 25' 30'	5000114-201 5000114-202 5000114-203 5000114-4127 5000114-4128
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6' 12' 20' 25' 30'	5000115-201 5000115-202 5000115-203 5000115-4082 5000115-4083
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6' 12' 20' 25' 30'	5000116-201 5000116-202 5000116-203 5000116-4088 5000116-4089

Note: Special lengths available upon request — consult factory.

Male in-line coupling nut available upon request — consult factory.

Nylon and stainless steel available upon request — consult factory.

Right angle male and female plugs available — consult factory.

# SPECIFICATIONS MICRO-MINI DUAL KEY AC SJOOW PLUGS (3 AND 4 POLE)

- Male, Female and Male-In-Line Plugs
- 18 AWG Standard Color Code
- 300V 105°C SJOOW Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-50°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Rigid black Polyurethane

Cable:

Yellow, SJOOW per UL-62

Contacts:

Machined Brass

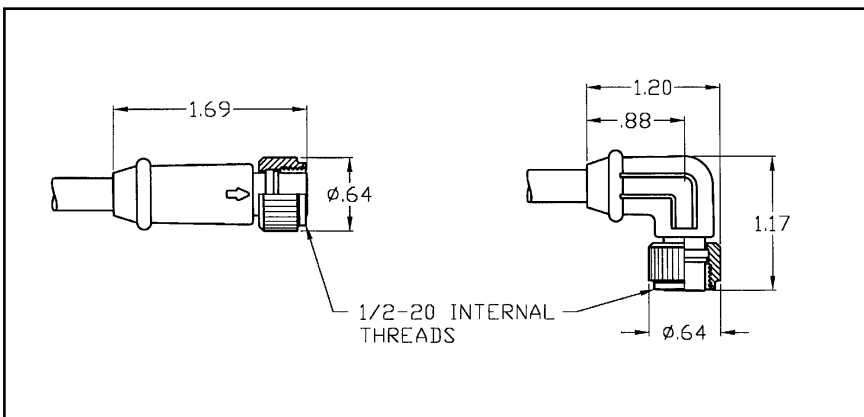
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel




Coupling Nut:

Diecast Zamak 5 with black epoxy coat




## DIMENSIONS






## MICRO-MINI DUAL KEY FEMALE PLUG SJOOW CABLE

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-8S	5000114-11S
					12'	5000114-9S	5000114-12S
					20'	5000114-10S	5000114-13S
					25'	5000114-4111S	5000114-4112S
					30'	5000114-4037S	5000114-4045S
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-8S	5000115-11S
					12'	5000115-9S	5000115-12S
					20'	5000115-10S	5000115-13S
					25'	5000115-4067S	5000115-4068S
					30'	5000115-4033S	5000115-4069S
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-8S	5000116-11S
					12'	5000116-9S	5000116-12S
					20'	5000116-10S	5000116-13S
					25'	5000116-4067S	5000116-4068S
					30'	5000116-4033S	5000116-4069S

## MICRO-MINI DUAL KEY MALE PLUG SJOOW CABLE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-20S	5000114-23S
					12'	5000114-21S	5000114-24S
					20'	5000114-22S	5000114-25S
					25'	5000114-4114S	5000114-4115S
					30'	5000114-4116S	5000114-4117S
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-20S	5000115-23S
					12'	5000115-21S	5000115-24S
					20'	5000115-22S	5000115-25S
					25'	5000115-4070S	5000115-4071S
					30'	5000115-4072S	5000115-4073S
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-20S	5000116-23S
					12'	5000116-21S	5000116-24S
					20'	5000116-22S	5000116-25S
					25'	5000116-4070S	5000116-4071S
					30'	5000116-4072S	5000116-4073S

## MICRO-MINI DUAL KEY MALE-IN-LINE PLUG SJOOW CABLE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-62S	5000114-68S
					12'	5000114-63S	5000114-69S
					20'	5000114-64S	5000114-70S
					25'	5000114-4121S	5000114-4122S
					30'	5000114-4123S	5000114-4124S
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	6'	5000115-62S	5000115-68S
					12'	5000115-63S	5000115-69S
					20'	5000115-64S	5000115-70S
					25'	5000115-4076S	5000115-4077S
					30'	5000115-4078S	5000115-4079S
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	6'	5000116-62S	5000116-68S
					12'	5000116-63S	5000116-69S
					20'	5000116-64S	5000116-70S
					25'	5000116-4076S	5000116-4077S
					30'	5000116-4078S	5000116-4079S

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MICRO-MINI DUAL KEY AC TPE PLUGS (3 AND 5 POLE)

- Male, Female and Male-In-Line Plugs
- 18 AWG Standard Color Code
- 300V 90°C TPE Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-24°C to +90°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Rigid black Polyurethane

Cable:

Yellow, TPE

Contacts:

Machined Brass

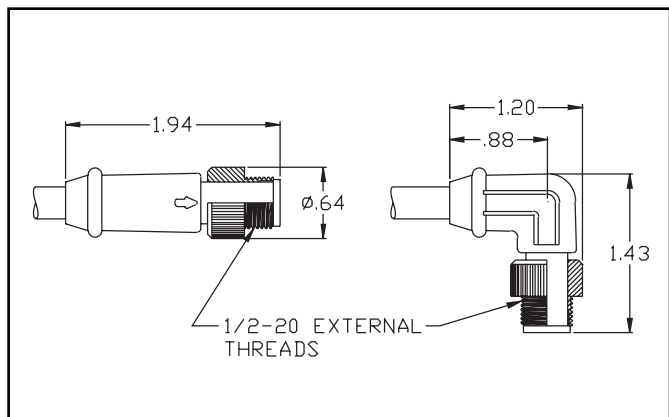
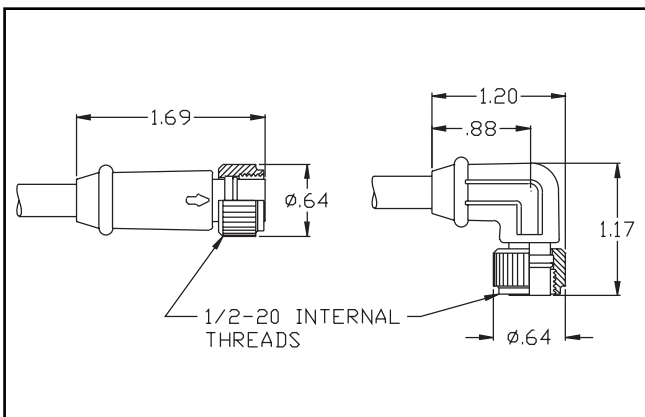
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel



Coupling Nut:

Diecast Zamak 5 with black epoxy coat



## DIMENSIONS





## MICRO-MINI DUAL KEY FEMALE PLUG TPE CABLE

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-8A	5000114-11A
					12'	5000114-9A	5000114-12A
					20'	5000114-10A	5000114-13A
					25'	5000114-4111A	5000114-4112A
					30'	5000114-4037A	5000114-4045A
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 4. Red-Black	300V, 5A	18	6'	5000116-8A	5000116-11A
					12'	5000116-9A	5000116-12A
					20'	5000116-10A	5000116-13A
					25'	5000116-4067A	5000116-4068A
					30'	5000116-4033A	5000116-4069A

## MICRO-MINI DUAL KEY MALE PLUG TPE CABLE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-20A	5000114-23A
					12'	5000114-21A	5000114-24A
					20'	5000114-22A	5000114-25A
					25'	5000114-4114A	5000114-4115A
					30'	5000114-4116A	5000114-4117A
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 4. Red-Black	300V, 5A	18	6'	5000116-20A	5000116-23A
					12'	5000116-21A	5000116-24A
					20'	5000116-22A	5000116-25A
					25'	5000116-4070A	5000116-4071A
					30'	5000116-4072A	5000116-4073A

## MICRO-MINI DUAL KEY MALE-IN-LINE PLUG TPE CABLE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT	RIGHT ANGLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	6'	5000114-62A	5000114-68A
					12'	5000114-63A	5000114-69A
					20'	5000114-64A	5000114-70A
					25'	5000114-4121A	5000114-4122A
					30'	5000114-4123A	5000114-4124A
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 4. Red-Black	300V, 5A	18	6'	5000116-62A	5000116-68A
					12'	5000116-63A	5000116-69A
					20'	5000116-64A	5000116-70A
					25'	5000116-4076A	5000116-4077A
					30'	5000116-4078A	5000116-4079A

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.



# SPECIFICATIONS MICRO-MINI DUAL KEY Y-SPLITTER (4 POLE)

- 18 AWG Standard Color Code
- 300V 105°C AWM Cable
- Standard and Low Profile Versions Available
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Black, Polyurethane

Cable:

Yellow, AWM UL style 2661

Contacts:

Machined Brass

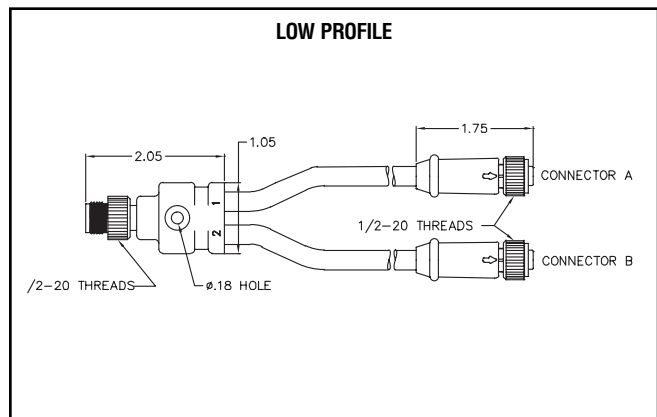
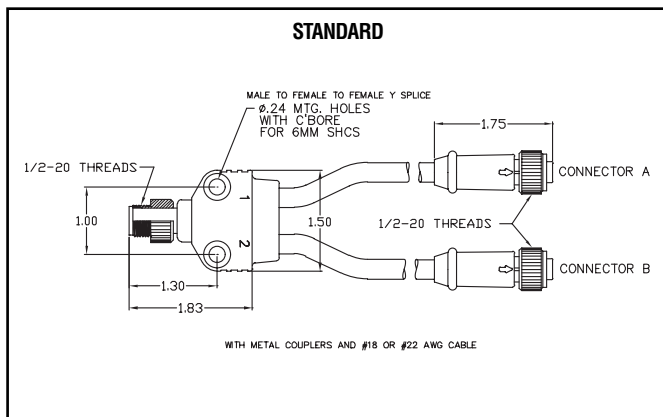
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel


Coupling Nut:

Diecast Zamak 5 with black epoxy coat

## DIMENSIONS

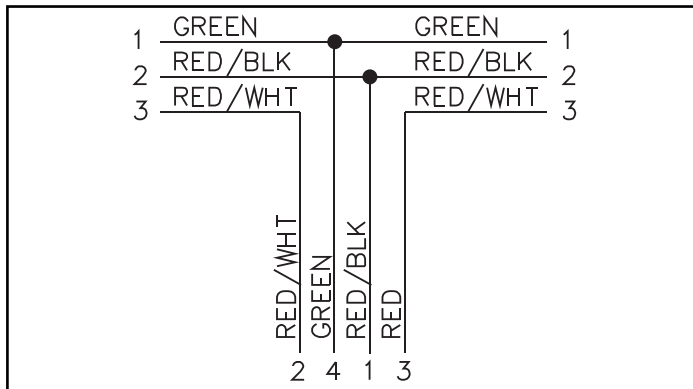


# MICRO-MINI DUAL KEY Y-SPLITTER

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STANDARD	LOW PROFILE
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	12"	5000115-273	5000115-153

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MICRO-MINI DUAL KEY T-SPLITTER (3 POLE)

- 22 AWG Standard Color Code
- 300V 105°C AWM Cable
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Black, Polyurethane

Cable:

Yellow, AWM UL style 2661

Contacts:

Machined Brass

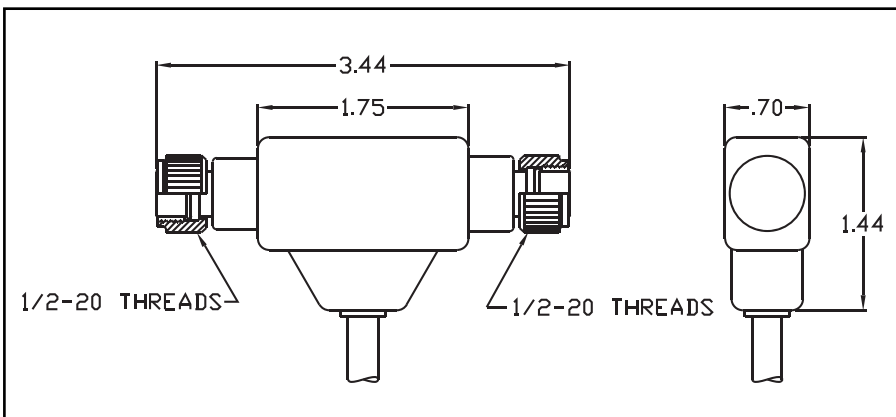
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel


Coupling Nut:

Diecast Zamak 5 with black epoxy coat

## DIMENSIONS

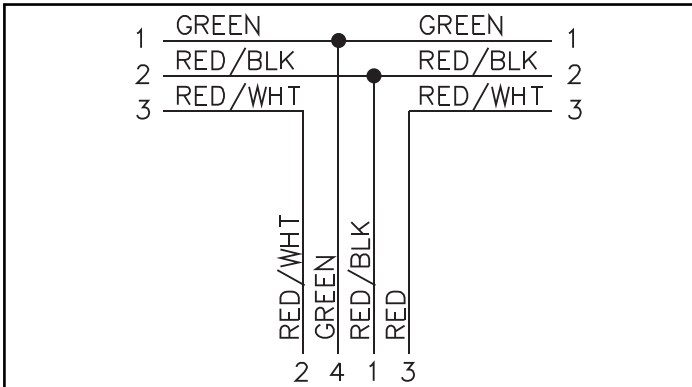


# MICRO-MINI DUAL KEY T-SPLITTER

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	SPLITTER
3		1. Green 2. Red-Black (1) 2. Red (2) 3. Red-White	300V, 4A	22	3' 6' 12'	5000114-270 5000114-271 5000114-272

Note: Special cable lengths available upon request — consult factory.  
 Stainless steel coupling nut available — consult factory.  
 Braided cable available upon request — consult factory.  
 Male in-line version available upon request — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MICRO-MINI DUAL KEY TAPPING TEE (2-5 POLE)

- Standard and Low Profile Configurations
- 18 AWG and 22 AWG Standard Color Code
- 300V 105°C
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Black, Polyurethane

Cable:

Yellow, AWM UL style 2661

Contacts:

Machined Brass

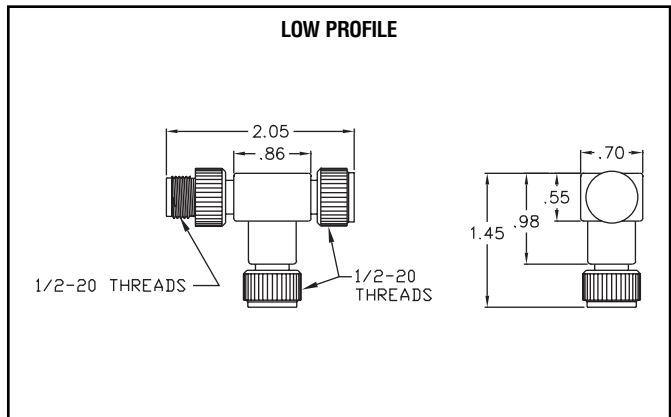
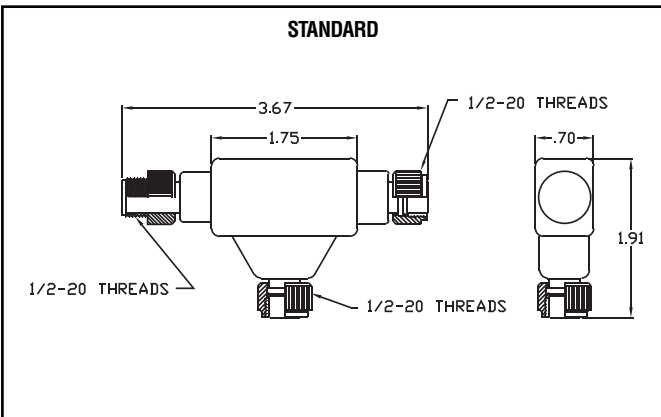
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel





Coupling Nut:

Diecast Zamak 5 with black epoxy coat





## DIMENSIONS



## MICRO-MINI DUAL KEY TAPPING TEE

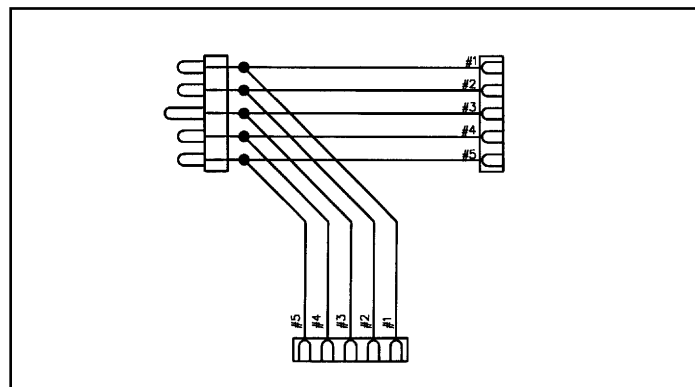
POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	STANDARD
2		1. Brown 2. Blue	300V, 5A	18	5000113-276
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	5000114-276
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	5000115-276
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	5000116-276

## MICRO-MINI DUAL KEY LOW PROFILE TEE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LOW PROFILE
2		1. Brown 2. Blue	300V, 4A	22	5000113-155
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	5000114-455
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	5000115-155
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	5000116-155

Note: Stainless steel coupling nut available — consult factory.

## WIRING DIAGRAM





# SPECIFICATIONS MICRO-MINI DUAL KEY AC RECEPTACLES (2-6 POLE)

- Male and Female Receptacles
- 22 AWG
- 300V 105°C
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20° to +105°C

### Material Data

Insert:

Black, Nylon 6/6

Pigtail Leads:

AWM/MTW UL style 1430 or 1569

Contacts:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Receptacle Shell:

Machined Aluminum with anodize finish and clear sealant

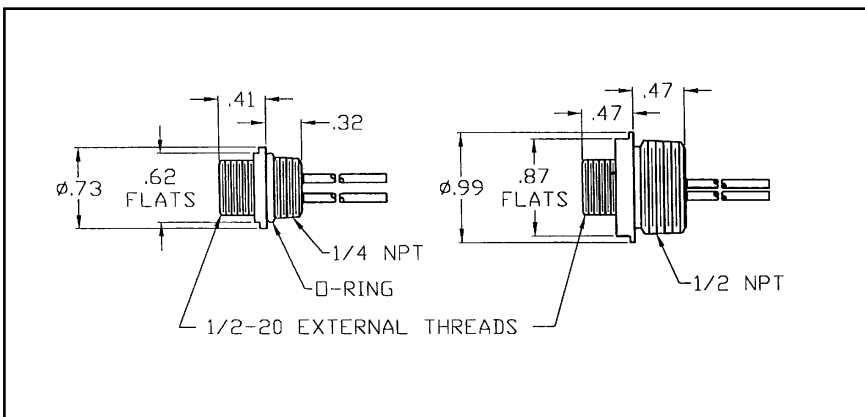
Nylon 6/6 weather stabilized (except 1/2" — NPT design)

303 Stainless Steel





Potting Compound:

Black rigid epoxy






## DIMENSIONS



# MICRO-MINI DUAL KEY FEMALE RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL





POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT	1/2"-NPT
2		1. Brown 2. Blue	300V, 4A	22	3"	5000113-26	5000113-27
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	3"	5000114-26	5000114-27
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	3"	5000115-26	5000115-27
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	3"	5000116-26	5000116-27

# MICRO-MINI DUAL KEY MALE RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL






POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT	1/2"-NPT
2		1. Brown 2. Blue	300V, 4A	22	3"	5000113-1	5000113-14
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	3"	5000114-1	5000114-14
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	3"	5000115-1	5000115-14
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	3"	5000116-1	5000116-14
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	3"	5000127-1	5000127-14

Note: Special lead lengths available upon request — consult factory.

## MICRO-MINI DUAL KEY FEMALE RECEPTACLE WITH *NYLON* RECEPTACLE SHELL





POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT
2		1. Brown 2. Blue	300V, 4A	22	3"	5000113-26N
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	3"	5000114-26N
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	3"	5000115-26N
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	3"	5000116-26N

## MICRO-MINI DUAL KEY MALE RECEPTACLE WITH *NYLON* RECEPTACLE SHELL






POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT
2		1. Brown 2. Blue	300V, 4A	22	3"	5000113-1N
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	3"	5000114-1N
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	3"	5000115-1N
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	3"	5000116-1N
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	3"	5000127-1N

Note: Special lead lengths available upon request — consult factory.

## MICRO-MINI DUAL KEY FEMALE RECEPTACLE WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT	1/2"-NPT
2		1. Brown 2. Blue	300V, 4A	22	3"	5000113-26X	5000113-27X
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	3"	5000114-26X	5000114-27X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	3"	5000115-26X	5000115-27X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	3"	5000116-26X	5000116-27X

## MICRO-MINI DUAL KEY MALE RECEPTACLE WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT	1/2"-NPT
2		1. Brown 2. Blue	300V, 4A	22	3"	5000113-1X	5000113-14X
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	3"	5000114-1X	5000114-14X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	3"	5000115-1X	5000115-14X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	3"	5000116-1X	5000116-14X
6		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black 6. Red-Blue	300V, 3A	22	3"	5000127-1X	5000127-14X

Note: Special lead lengths available upon request — consult factory.

# SPECIFICATIONS MICRO-MINI DUAL KEY AC RECEPTACLES (2-5 POLE)

- Male and Female Receptacles
- 18 AWG Standard Color Code
- 300V 105°C
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20° to +105°C

### Material Data

Insert:

Black, Nylon 6/6

Pigtail Leads:

AWM/MTW UL style 1430 or 1569

Contacts:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Receptacle Shell:

Machined Aluminum with anodize finish and clear sealant

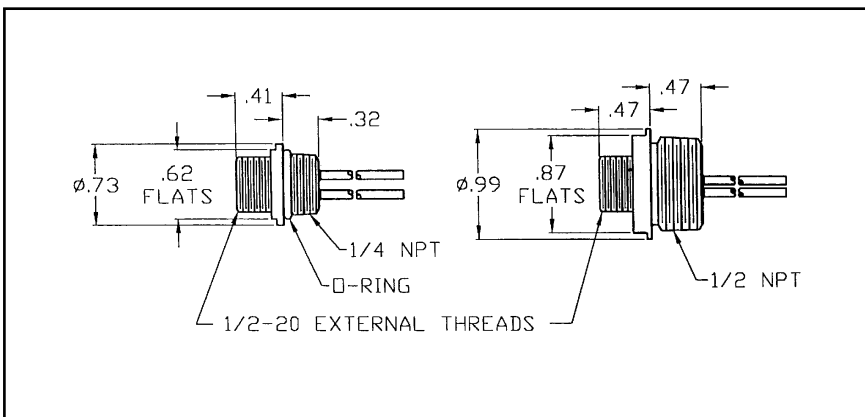
Nylon 6/6 weather stabilized (except 1/2" — NPT design)

303 Stainless Steel





Potting Compound:

Black rigid epoxy





## DIMENSIONS



## MICRO-MINI DUAL KEY FEMALE RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT	1/2"-NPT
2		1. Brown 2. Blue	300V, 5A	18	3"	5000113-74	5000113-4057
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	3"	5000114-4129	5000114-4130
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	3"	5000115-4084	5000115-4085
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	3"	5000116-4090	5000116-4091





## MICRO-MINI DUAL KEY MALE RECEPTACLE WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT	1/2"-NPT
2		1. Brown 2. Blue	300V, 5A	18	3"	5000113-4058	5000113-4059
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	3"	5000114-4131	5000114-4132
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	3"	5000115-4086	5000115-4087
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	3"	5000116-4092	5000116-4093





Note: Special lead lengths available upon request — consult factory.



## MICRO-MINI DUAL KEY FEMALE RECEPTACLE WITH *NYLON* RECEPTACLE SHELL





POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT
2		1. Brown 2. Blue	300V, 5A	18	3"	5000113-74N
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	3"	5000114-4129N
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	3"	5000115-4084N
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	3"	5000116-4090N

## MICRO-MINI DUAL KEY MALE RECEPTACLE WITH *NYLON* RECEPTACLE SHELL





POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT
2		1. Brown 2. Blue	300V, 5A	18	3"	5000113-4058N
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	3"	5000114-4131N
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	3"	5000115-4086N
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	3"	5000116-4092N

Note: Special lead lengths available upon request — consult factory.

## MICRO-MINI DUAL KEY FEMALE RECEPTACLE WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT	1/2"-NPT
2		1. Brown 2. Blue	300V, 5A	18	3"	5000113-74X	5000113-4057X
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	3"	5000114-4129X	5000114-4130X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	3"	5000115-4084X	5000115-4085X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	3"	5000116-4090X	5000116-4091X

## MICRO-MINI DUAL KEY MALE RECEPTACLE WITH STAINLESS STEEL RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4"-NPT	1/2"-NPT
2		1. Brown 2. Blue	300V, 5A	18	3"	5000113-4058X	5000113-4059X
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	3"	5000114-4131X	5000114-4132X
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	3"	5000115-4086X	5000115-4087X
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	3"	5000116-4092X	5000116-4093X

Note: Special lead lengths available upon request — consult factory.

# SPECIFICATIONS MICRO-MINI DUAL KEY FEMALE SPECIAL RECEPTACLES (3-5 POLE)

- 18 AWG Standard Color Code
- 300V 105°C
- Anodized Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E169897  
File #LR13963

### Electrical Data

Contact Resistance:  
Current Rating:

≤ 5mΩ  
See chart with part  
number detail

Voltage Rating:  
Dielectric Withstand Voltage:

300 VAC  
1600 VAC

### Environmental Data

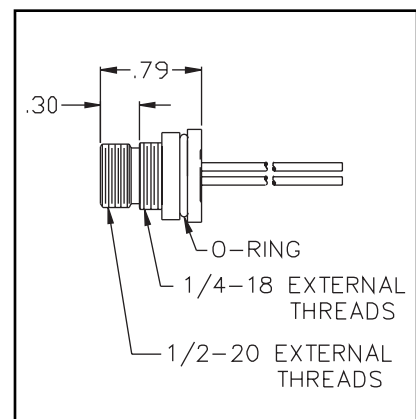
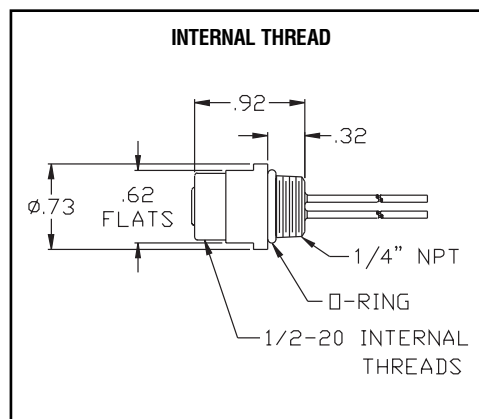
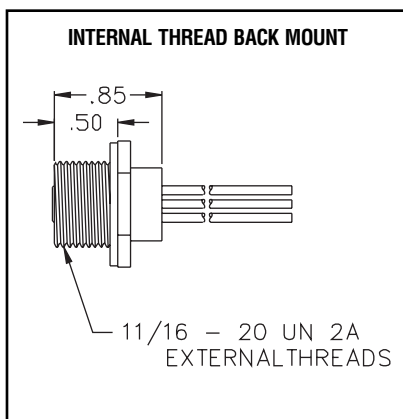
Protection:  
Temperature Range:

NEMA 1, 3, 4, 6P and 13; IEC IP 68  
-20°C to +105°C




### Material Data

Insert: Black, Nylon 6/6  
Pigtail Leads: AWM/MTW UL style 1430 or 1569  
Contacts: Machined Brass  
Contact Plating: 30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
Lock Nut: Steel  
Receptacle Shell: Machined Aluminum with clear or black anodize finish and clear sealant  
Potting Compound: Black rigid epoxy




## DIMENSIONS






## MICRO-MINI DUAL KEY FEMALE BACK MOUNTED INTERNAL THREAD RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	PIGTAIL LENGTH	RECEPTACLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	12"	5000114-274
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	12"	5000115-274
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	12"	5000116-274

## MICRO-MINI DUAL KEY FEMALE INTERNAL THREAD RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	PIGTAIL LENGTH	RECEPTACLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	12"	5000114-275
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	12"	5000115-275
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	12"	5000116-275

## MICRO-MINI DUAL KEY FEMALE BACK MOUNTED THREAD RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	PIGTAIL LENGTH	RECEPTACLE
3		1. Green 2. Red-Black 3. Red-White	300V, 5A	18	1 meter	5000114-312
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 5A	18	1 meter	5000115-312
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 5A	18	1 meter	5000116-312

Note: Special lead lengths available upon request — consult factory.

# SPECIFICATIONS MICRO-MINI DUAL KEY FIELD ATTACHABLE (2-5 POLE)

- Female, Male and Male-In-Line Versions
- Crimp Style Contact Design
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC

Dielectric Withstanding Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3; IEC IP 63

Temperature Range:

-20°C to +90°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Black, nylon

Insert:

Black, PUR

Contact:

Machined Brass

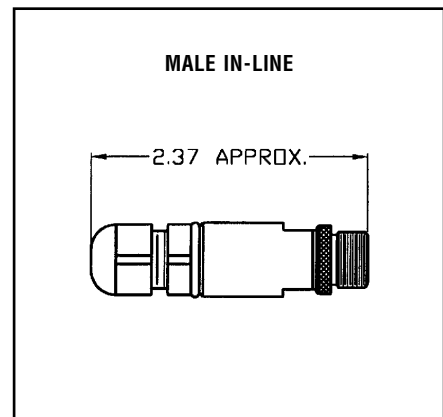
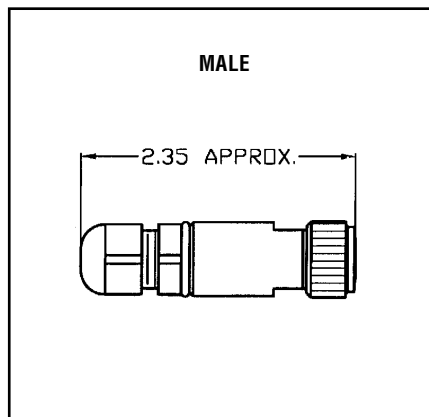
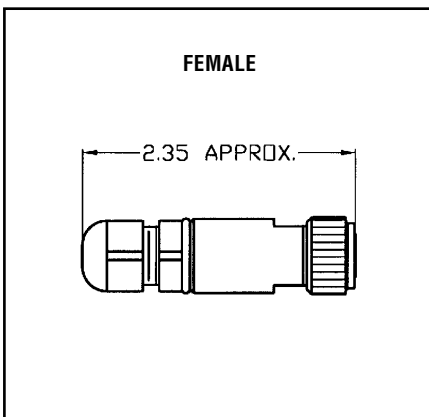
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel





Coupling Nut:

Diecast Zamak 5 with black epoxy coat or black anodize finish





## DIMENSIONS



## MICRO-MINI DUAL KEY FEMALE FIELD ATTACHABLE

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	FEMALE
2		1. Brown 2. Blue	300V, 4A	22	5000113-91
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	5000114-91
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	5000115-91
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	5000116-91

## MICRO-MINI DUAL KEY MALE FIELD ATTACHABLE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	MALE	MALE-IN-LINE
2		1. Brown 2. Blue	300V, 4A	22	5000113-92	5000113-93
3		1. Green 2. Red-Black 3. Red-White	300V, 4A	22	5000114-92	5000114-93
4		1. Red-Black 2. Red-White 3. Red 4. Green	300V, 4A	22	5000115-92	5000115-93
5		1. Red-White 2. Red 3. Green 4. Red-Yellow 5. Red-Black	300V, 4A	22	5000116-92	5000116-93



# SPECIFICATIONS MICRO-MINI DC DIN PLUGS (3-5 POLE)

- Female and Male-In-Line Plug
- 22 AWG
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, AWM, UL style 2661, PVC jacket

Contacts:

Machined Brass

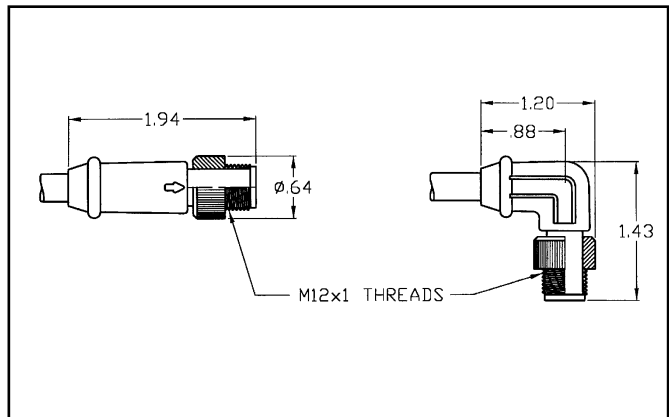
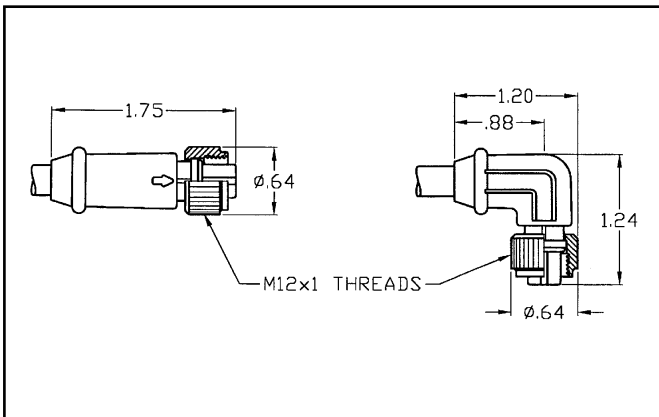
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel




Coupling Nut:

Diecast Zamak 5 with black epoxy coat




## DIMENSIONS



## MICRO-MINI DC DIN FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 4A	22	1	5000117-2	5000117-7
		2. Not Used			2	5000117-3	5000117-8
		3. Blue			3	5000117-4	5000117-9
		4. Black			4	5000117-5	5000117-10
		5. Not Used			5	5000117-6	5000117-11
4		1. Brown	300V, 4A	22	1	5000118-2	5000118-7
		2. White			2	5000118-3	5000118-8
		3. Blue			3	5000118-4	5000118-9
		4. Black			4	5000118-5	5000118-10
		5. Not Used			5	5000118-6	5000118-11
5		1. Brown	300V, 4A	22	1	5000129-2	5000129-7
		2. White			2	5000129-3	5000129-8
		3. Blue			3	5000129-4	5000129-9
		4. Black			4	5000129-5	5000129-10
		5. Gray			5	5000129-6	5000129-11

## MICRO-MINI DC DIN MALE-IN-LINE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 4A	22	1	5000117-13	5000117-18
		2. Not Used			2	5000117-14	5000117-19
		3. Blue			3	5000117-15	5000117-20
		4. Black			4	5000117-16	5000117-21
		5. Not Used			5	5000117-17	5000117-22
4		1. Brown	300V, 4A	22	1	5000118-13	5000118-18
		2. White			2	5000118-14	5000118-19
		3. Blue			3	5000118-15	5000118-20
		4. Black			4	5000118-16	5000118-21
		5. Not Used			5	5000118-17	5000118-22
5		1. Brown	300V, 4A	22	1	5000129-13	5000129-18
		2. White			2	5000129-14	5000129-19
		3. Blue			3	5000129-15	5000129-20
		4. Black			4	5000129-16	5000129-21
		5. Gray			5	5000129-17	5000129-22

Note: Special lengths available upon request — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN FEMALE PLUGS (3-5 POLE)

- Female Plug
- 22 AWG
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Nylon Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, AWM, UL style 2661, PVC jacket

Contacts:

Machined Brass

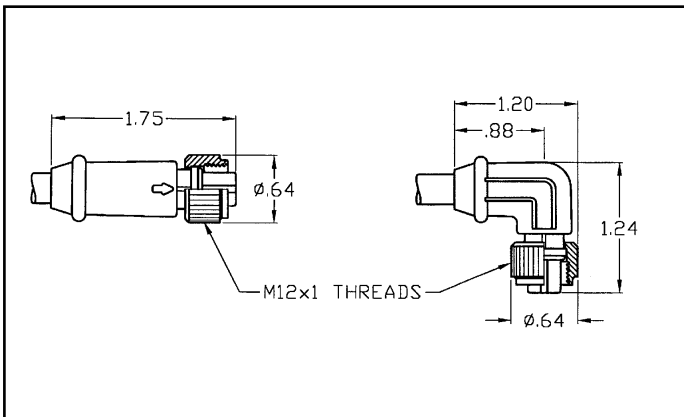
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel




Coupling Nut:

Nylon 6/6 weather stabilized

## DIMENSIONS



# MICRO-MINI DC DIN FEMALE PLUG WITH *NYLON* COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 4A	22	1	5000117-2N	5000117-7N
		2. Not Used			2	5000117-3N	5000117-8N
		3. Blue			3	5000117-4N	5000117-9N
		4. Black			4	5000117-5N	5000117-10N
		5. Not Used			5	5000117-6N	5000117-11N
4		1. Brown	300V, 4A	22	1	5000118-2N	5000118-7N
		2. White			2	5000118-3N	5000118-8N
		3. Blue			3	5000118-4N	5000118-9N
		4. Black			4	5000118-5N	5000118-10N
		5. Not Used			5	5000118-6N	5000118-11N
5		1. Brown	300V, 4A	22	1	5000129-2N	5000129-7N
		2. White			2	5000129-3N	5000129-8N
		3. Blue			3	5000129-4N	5000129-9N
		4. Black			4	5000129-5N	5000129-10N
		5. Gray			5	5000129-6N	5000129-11N

Note: Special lengths available upon request — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN PLUGS (3-5 POLE)

- Female and Male-In-Line Plug
- 22 AWG
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Stainless Steel Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, AWM, UL style 2661, PVC jacket

Contacts:

Machined Brass

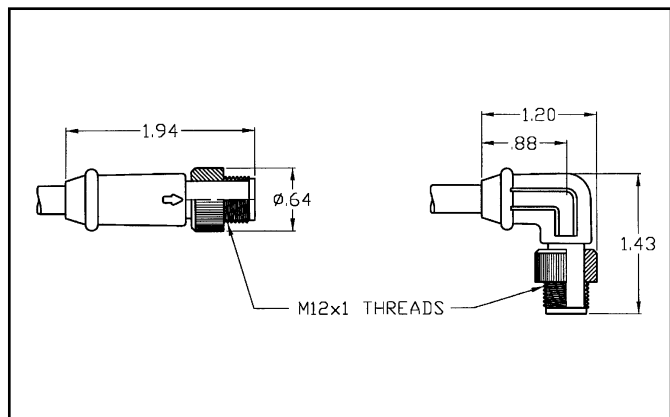
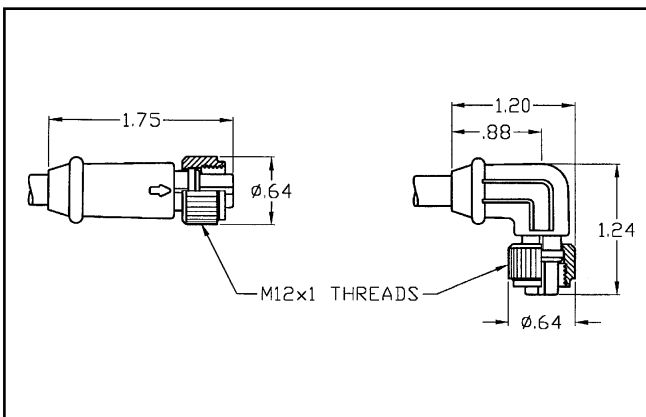
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel




Coupling Nut:

303 Stainless Steel




## DIMENSIONS



## MICRO-MINI DC DIN FEMALE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 4A	22	1	5000117-2X	5000117-7X
		2. Not Used			2	5000117-3X	5000117-8X
		3. Blue			3	5000117-4X	5000117-9X
		4. Black			4	5000117-5X	5000117-10X
		5. Not Used			5	5000117-6X	5000117-11X
4		1. Brown	300V, 4A	22	1	5000118-2X	5000118-7X
		2. White			2	5000118-3X	5000118-8X
		3. Blue			3	5000118-4X	5000118-9X
		4. Black			4	5000118-5X	5000118-10X
		5. Not Used			5	5000118-6X	5000118-11X
5		1. Brown	300V, 4A	22	1	5000129-2X	5000129-7X
		2. White			2	5000129-3X	5000129-8X
		3. Blue			3	5000129-4X	5000129-9X
		4. Black			4	5000129-5X	5000129-10X
		5. Gray			5	5000129-6X	5000129-11X

## MICRO-MINI DC DIN MALE-IN-LINE PLUG WITH STAINLESS STEEL COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 4A	22	1	5000117-13X	5000117-18X
		2. Not Used			2	5000117-14X	5000117-19X
		3. Blue			3	5000117-15X	5000117-20X
		4. Black			4	5000117-16X	5000117-21X
		5. Not Used			5	5000117-17X	5000117-22X
4		1. Brown	300V, 4A	22	1	5000118-13X	5000118-18X
		2. White			2	5000118-14X	5000118-19X
		3. Blue			3	5000118-15X	5000118-20X
		4. Black			4	5000118-16X	5000118-21X
		5. Not Used			5	5000118-17X	5000118-22X
5		1. Brown	300V, 4A	22	1	5000129-13X	5000129-18X
		2. White			2	5000129-14X	5000129-19X
		3. Blue			3	5000129-15X	5000129-20X
		4. Black			4	5000129-16X	5000129-21X
		5. Gray			5	5000129-17X	5000129-22X

Note: Special lengths available upon request — consult factory.



# SPECIFICATIONS MICRO-MINI DC DIN PLUGS (3-5 POLE)

- Female and Male-In-Line Plug
- 18 AWG
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, AWM, UL style 2661, PVC jacket

Contacts:

Machined Brass

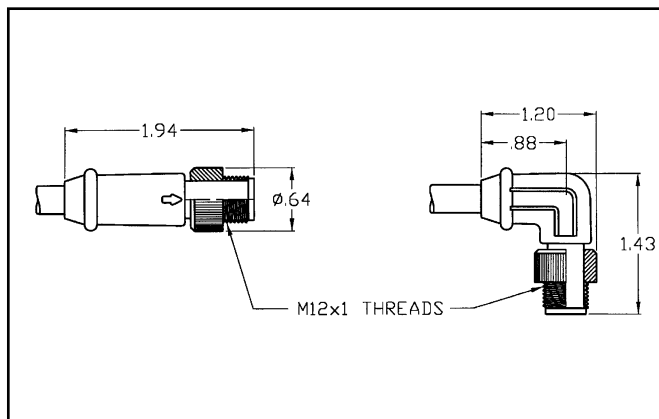
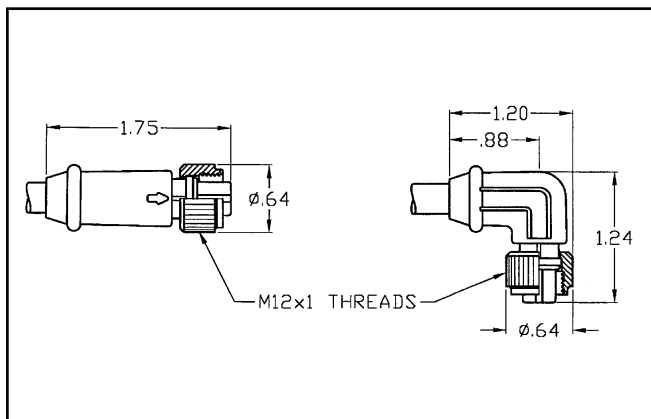
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel




Coupling Nut:

Diecast Zamak 5 with black epoxy coat




## DIMENSIONS



## MICRO-MINI DC DIN FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 5A	18	1	5000117-4015	5000117-4018
		2. Not Used			2	5000117-4016	5000117-4019
		3. Blue			3	5000117-4106	5000117-4107
		4. Black			4	5000117-4017	5000117-4020
		5. Not Used			5	5000117-4047	5000117-4048
4		1. Brown	300V, 5A	18	1	5000118-4145	5000118-4146
		2. White			2	5000118-4020	5000118-4021
		3. Blue			3	5000118-4147	5000118-4148
		4. Black			4	5000118-4009	5000118-4010
		5. Not Used			5	5000118-4091	5000118-4092
5		1. Brown	300V, 5A	18	1	5000129-241	5000129-246
		2. White			2	5000129-242	5000129-247
		3. Blue			3	5000129-243	5000129-248
		4. Black			4	5000129-244	5000129-249
		5. Gray			5	5000129-245	5000129-250

## MICRO-MINI DC DIN MALE-IN-LINE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 5A	18	1	5000117-4108	5000117-4109
		2. Not Used			2	5000117-4110	5000117-4111
		3. Blue			3	5000117-4112	5000117-4113
		4. Black			4	5000117-4114	5000117-4115
		5. Not Used			5	5000117-4116	5000117-4117
4		1. Brown	300V, 5A	18	1	5000118-4149	5000118-4150
		2. White			2	5000118-4151	5000118-4152
		3. Blue			3	5000118-4153	5000118-4154
		4. Black			4	5000118-4155	5000118-4156
		5. Not Used			5	5000118-4157	5000118-4158
5		1. Brown	300V, 5A	18	1	5000129-261	5000129-266
		2. White			2	5000129-262	5000129-267
		3. Blue			3	5000129-263	5000129-268
		4. Black			4	5000129-264	5000129-269
		5. Gray			5	5000129-265	5000129-270

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN PLUGS WITH BRAIDED CABLE (3-4 POLE)

- Female and Male-In-Line Plug
- 22 AWG
- 300V 105°C AWM Braided Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, AWM, UL style 2661, with 85% coverage braided shield

Contacts:

Machined Brass

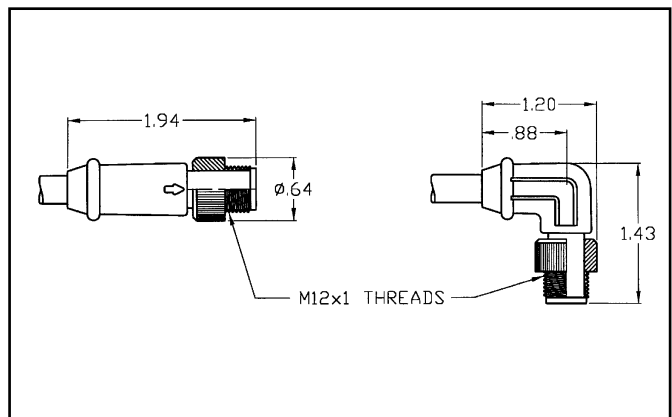
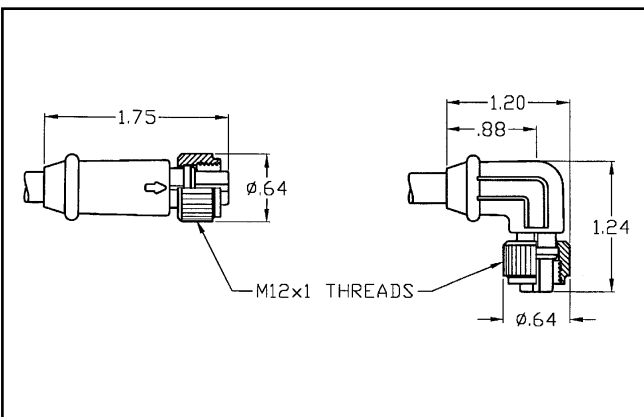
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel



Coupling Nut:

Diecast Zamak 5 with black epoxy coat



## DIMENSIONS



## **MICRO-MINI DC DIN FEMALE WITH BRAIDED CABLE** WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

<b>POLES</b>	<b>FACE VIEW FEMALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>CABLE LENGTH (METERS)</b>	<b>STRAIGHT</b>	<b>RIGHT ANGLE</b>
3		1. Brown	300V, 4A	22	1	5000117-2B	5000117-7B
		2. Not Used			2	5000117-3B	5000117-8B
		3. Blue			3	5000117-4B	5000117-9B
		4. Black			4	5000117-5B	5000117-10B
		5. Not Used			5	5000117-6B	5000117-11B
4		1. Brown	300V, 4A	22	1	5000118-2B	5000118-7B
		2. White			2	5000118-3B	5000118-8B
		3. Blue			3	5000118-4B	5000118-9B
		4. Black			4	5000118-5B	5000118-10B
		5. Not Used			5	5000118-6B	5000118-11B

## **MICRO-MINI DC DIN MALE-IN-LINE WITH BRAIDED CABLE** WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

<b>POLES</b>	<b>FACE VIEW MALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>CABLE LENGTH (METERS)</b>	<b>STRAIGHT</b>	<b>RIGHT ANGLE</b>
3		1. Brown	300V, 4A	22	1	5000117-13B	5000117-18B
		2. Not Used			2	5000117-14B	5000117-19B
		3. Blue			3	5000117-15B	5000117-20B
		4. Black			4	5000117-16B	5000117-21B
		5. Not Used			5	5000117-17B	5000117-22B
4		1. Brown	300V, 4A	22	1	5000118-13B	5000118-18B
		2. White			2	5000118-14B	5000118-19B
		3. Blue			3	5000118-15B	5000118-20B
		4. Black			4	5000118-16B	5000118-21B
		5. Not Used			5	5000118-17B	5000118-22B

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN MALE-IN-LINE TO FEMALE EXTENSIONS (3-5 POLE)

- 22 AWG and 18 AWG (except 5 pole)
- 300V 105°C AWM Cable
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, AWM, UL style 2661, PVC jacket

Contacts:

Machined Brass

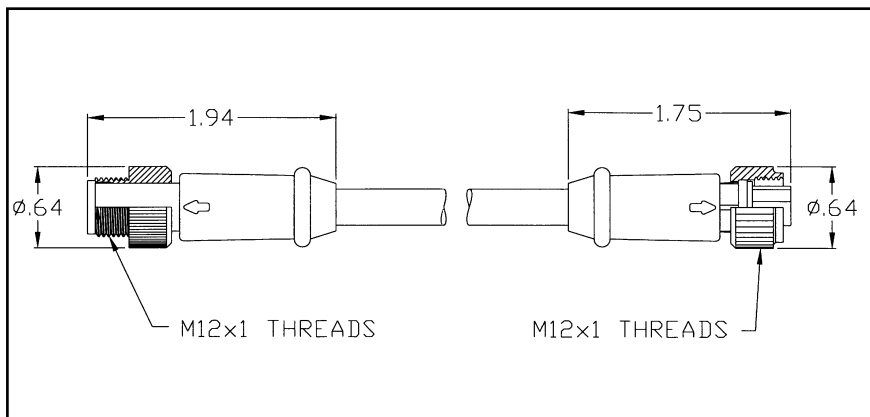
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:




Diecast Zamak 5 with black epoxy coat

## DIMENSIONS





## MICRO-MINI DC DIN MALE-IN-LINE TO FEMALE EXTENSIONS

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	MALE-IN-LINE TO FEMALE EXTENSIONS
3		1. Brown	300V, 4A	22	1	5000117-4010
		2. Not Used			2	5000117-70
		3. Blue			3	5000117-4058
		4. Black			4	5000117-71
		5. Not Used			5	5000117-72
4		1. Brown	300V, 4A	22	1	5000118-4025
		2. White			2	5000118-70
		3. Blue			3	5000118-4111
		4. Black			4	5000118-71
		5. Not Used			5	5000118-72
5		1. Brown	300V, 4A	22	1	5000129-118
		2. White			2	5000129-70
		3. Blue			3	5000129-119
		4. Black			4	5000129-71
		5. Gray			5	5000129-72

## MICRO-MINI DC DIN MALE-IN-LINE TO FEMALE EXTENSIONS

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	MALE-IN-LINE TO FEMALE EXTENSIONS
3		1. Brown	300V, 5A	18	1	5000117-4118
		2. Not Used			2	5000117-4119
		3. Blue			3	5000117-4120
		4. Black			4	5000117-4121
		5. Not Used			5	5000117-4122
4		1. Brown	300V, 5A	18	1	5000118-4078
		2. White			2	5000118-4015
		3. Blue			3	5000118-4080
		4. Black			4	5000118-4011
		5. Not Used			5	5000118-4076

Note: Special lengths available upon request — consult factory.  
 Right angle male and female plugs available — consult factory.  
 Stainless steel coupling nut available — consult factory.



# SPECIFICATIONS MICRO-MINI DC DIN ROBOTIC PLUGS (3-4 POLE)

- Female and Male-In-Line Plug
- 18 AWG High-Flex Stranding
- 300V 90°C Robotic Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +90°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, oil resistant PVC jacket

Contacts:

Machined Brass

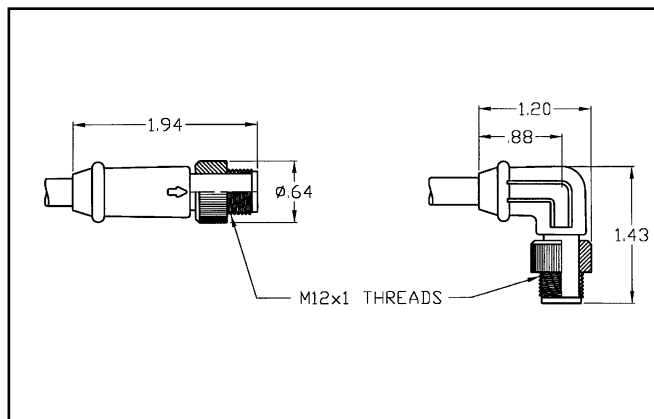
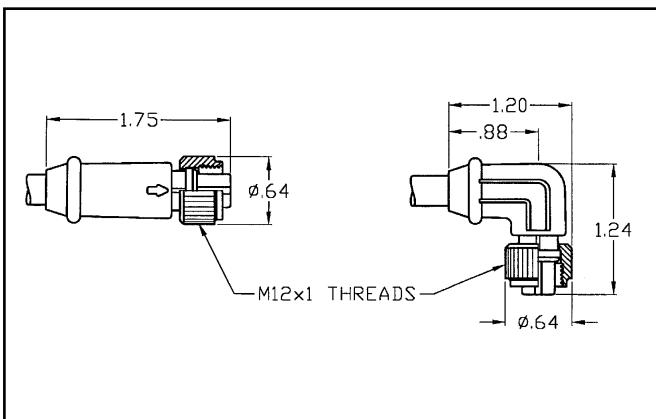
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel



Coupling Nut:

Diecast Zamak 5 with black epoxy coat

## DIMENSIONS





# MICRO-MINI DC DIN ROBOTIC FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Black #1	300V, 5A	18	1	5000117-2R	5000117-7R
		2. Not Used			2	5000117-3R	5000117-8R
		3. Black #2			3	5000117-4R	5000117-9R
		4. Green/Yellow			4	5000117-5R	5000117-10R
		5. Not Used			5	5000117-6R	5000117-11R
4		1. Black #1	300V, 5A	18	1	5000118-2R	5000118-7R
		2. Black #2			2	5000118-3R	5000118-8R
		3. Black #3			3	5000118-4R	5000118-9R
		4. Green/Yellow			4	5000118-5R	5000118-10R
		5. Not Used			5	5000118-6R	5000118-11R

# MICRO-MINI DC DIN ROBOTIC MALE-IN-LINE PLUG

WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Black #1	300V, 5A	18	1	5000117-13R	5000117-18R
		2. Not Used			2	5000117-14R	5000117-19R
		3. Black #2			3	5000117-15R	5000117-20R
		4. Green/Yellow			4	5000117-16R	5000117-21R
		5. Not Used			5	5000117-17R	5000117-22R
4		1. Black #1	300V, 5A	18	1	5000118-13R	5000118-18R
		2. Black #2			2	5000118-14R	5000118-19R
		3. Black #3			3	5000118-15R	5000118-20R
		4. Green/Yellow			4	5000118-16R	5000118-21R
		5. Not Used			5	5000118-17R	5000118-22R

Note: Special lead lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN SJOOW PLUGS (3 AND 4 POLE)

- Female and Male-In-Line Plug
- 18 AWG
- 300V 90°C SJOOW Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-50°C to +90°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, SJOOW

Contacts:

Machined Brass

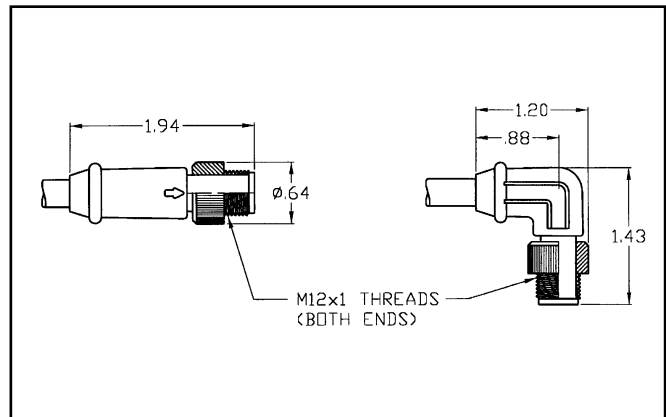
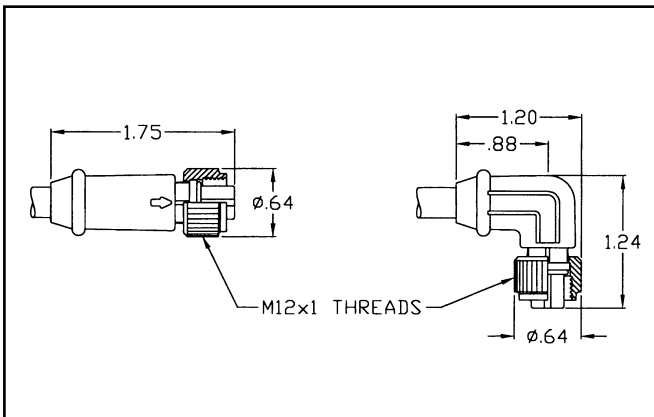
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:



Diecast Zamak 5 with black epoxy coat

## DIMENSIONS





# MICRO-MINI DC DIN SJOOW FEMALE PLUG

WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 5A	18	1	5000117-2SE	5000117-7SE
		2. Not Used			2	5000117-3SE	5000117-8SE
		3. Blue			3	5000117-4SE	5000117-9SE
		4. Black			4	5000117-5SE	5000117-10SE
		5. Not Used			5	5000117-6SE	5000117-11SE
4		1. Brown	300V, 5A	18	1	5000118-2SE	5000118-7SE
		2. White			2	5000118-3SE	5000118-8SE
		3. Blue			3	5000118-4SE	5000118-9SE
		4. Black			4	5000118-5SE	5000118-10SE
		5. Not Used			5	5000118-6SE	5000118-11SE

# MICRO-MINI DC DIN SJOOW MALE-IN-LINE PLUG

WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 5A	18	1	5000117-13SE	5000117-18SE
		2. Not Used			2	5000117-14SE	5000117-19SE
		3. Blue			3	5000117-15SE	5000117-20SE
		4. Black			4	5000117-16SE	5000117-21SE
		5. Not Used			5	5000117-17SE	5000117-22SE
4		1. Brown	300V, 5A	18	1	5000118-13SE	5000118-18SE
		2. White			2	5000118-14SE	5000118-19SE
		3. Blue			3	5000118-15SE	5000118-20SE
		4. Black			4	5000118-16SE	5000118-21SE
		5. Not Used			5	5000118-17SE	5000118-22SE

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN SJOOW MALE-IN-LINE TO FEMALE EXTENSIONS (3 AND 4 POLE)

- 18 AWG
- 300V 90°C SJOOW Cable
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-50°C to +90°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, SJOOW jacket

Contacts:

Machined Brass

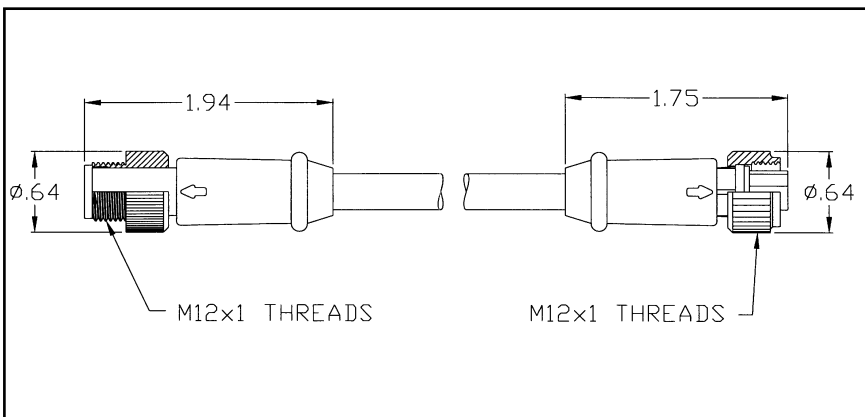
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:



Diecast Zamak 5 with black epoxy coat

## DIMENSIONS



# MICRO-MINI DC DIN SJOOW MALE-IN-LINE TO FEMALE EXTENSIONS

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	MALE-IN-LINE TO FEMALE EXTENSIONS
3		1. Brown	300V, 5A	18	1	5000117-4118SE
		2. Not Used			2	5000117-4119SE
		3. Blue			3	5000117-4120SE
		4. Black			4	5000117-4121SE
		5. Not Used			5	5000117-4122SE
4		1. Brown	300V, 5A	18	1	5000118-4078SE
		2. White			2	5000118-4015SE
		3. Blue			3	5000118-4080SE
		4. Black			4	5000118-4011SE
		5. Not Used			5	5000118-90SE

Note: Special lead lengths available upon request — consult factory.  
 Stainless steel coupling nut available — consult factory.  
 Right angle male and female plugs available — consult factory.



# SPECIFICATIONS MICRO-MINI DC DIN "PUR" PLUGS (3-4 POLE)

- Female and Male-In-Line Plug
- 22 AWG
- 300V 80°C PUR Cable
- Straight and Right Angle Versions
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +80°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 85A durometer, oil resistant PUR

Insert:

Yellow, PUR

Cable:

Yellow, PUR jacket

Contacts:

Machined Brass

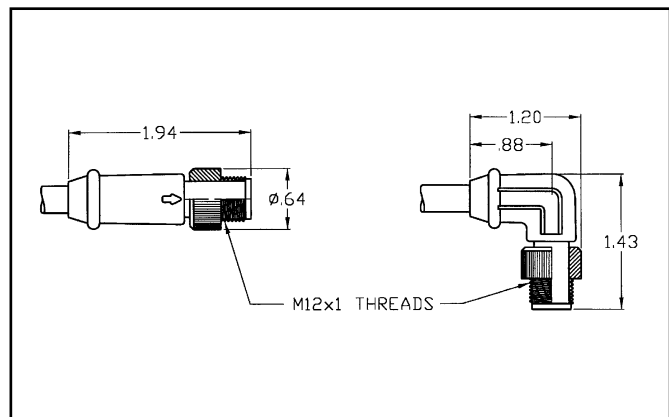
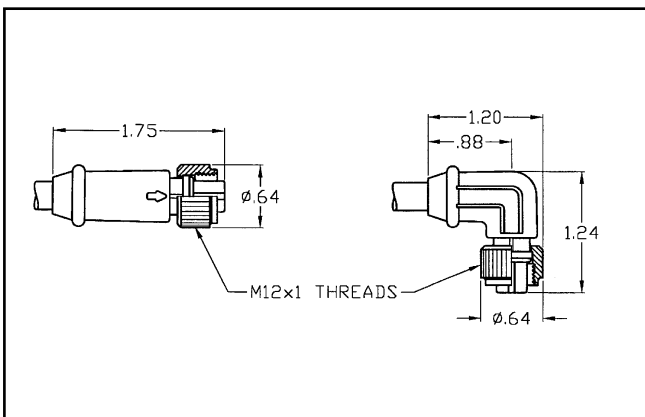
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:



Diecast Zamak 5 with black epoxy coat

## DIMENSIONS





## MICRO-MINI DC DIN “PUR” FEMALE PLUG

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 4A	22	1	5000117-2P	5000117-7P
		2. Not Used			2	5000117-3P	5000117-8P
		3. Blue			3	5000117-4P	5000117-9P
		4. Black			4	5000117-5P	5000117-10P
		5. Not Used			5	5000117-6P	5000117-11P
4		1. Brown	300V, 4A	22	1	5000118-2P	5000118-7P
		2. White			2	5000118-3P	5000118-8P
		3. Blue			3	5000118-4P	5000118-9P
		4. Black			4	5000118-5P	5000118-10P
		5. Not Used			5	5000118-6P	5000118-11P

## MICRO-MINI DC DIN “PUR” MALE-IN-LINE PLUG

WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	STRAIGHT	RIGHT ANGLE
3		1. Brown	300V, 4A	22	1	5000117-13P	5000117-18P
		2. Not Used			2	5000117-14P	5000117-19P
		3. Blue			3	5000117-15P	5000117-20P
		4. Black			4	5000117-16P	5000117-21P
		5. Not Used			5	5000117-17P	5000117-22P
4		1. Brown	300V, 4A	22	1	5000118-13P	5000118-18P
		2. White			2	5000118-14P	5000118-19P
		3. Blue			3	5000118-15P	5000118-20P
		4. Black			4	5000118-16P	5000118-21P
		5. Not Used			5	5000118-17P	5000118-22P

Note: Special lead lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN "LED" FEMALE PLUG (3 POLE)

- Female Plug Design
- 22 AWG
- 300V 105° AWM Cable
- Right Angle Version
- PNP and NPN Versions
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

10-30 VDC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

### Material Data

Body:

Clear, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow, AWM, UL style 2661, PVC jacket

Contacts:

Machined Brass

Contact Plating:

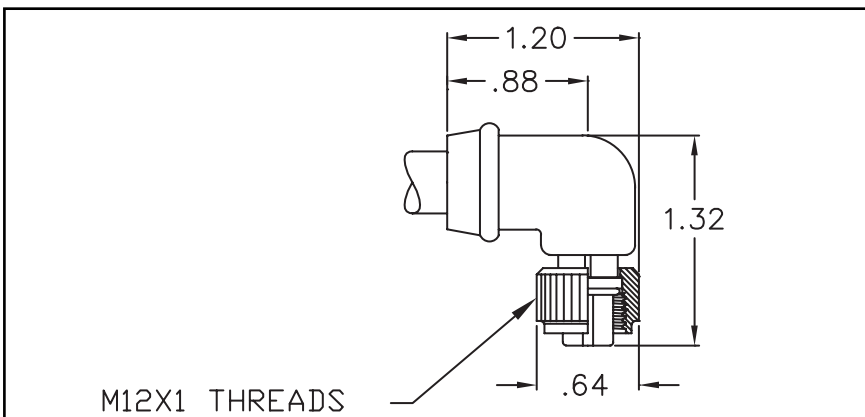
30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:


Diecast Zamak 5 with black epoxy coat

Nylon 6/6 weather stabilized


## DIMENSIONS




## MICRO-MINI DC DIN LED FEMALE PLUG WITH ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	RIGHT ANGLE — PNP	RIGHT ANGLE — NPN
3		1. Brown 2. Not Used 3. Blue 4. Black 5. Not Used	10-30 VDC 3A	22	2 3 4 5	5000117-P8 5000117-P9 5000117-P10 5000117-P11	5000117-N8 5000117-N9 5000117-N10 5000117-N11

## MICRO-MINI DC DIN LED FEMALE PLUG WITH NYLON COUPLING NUT

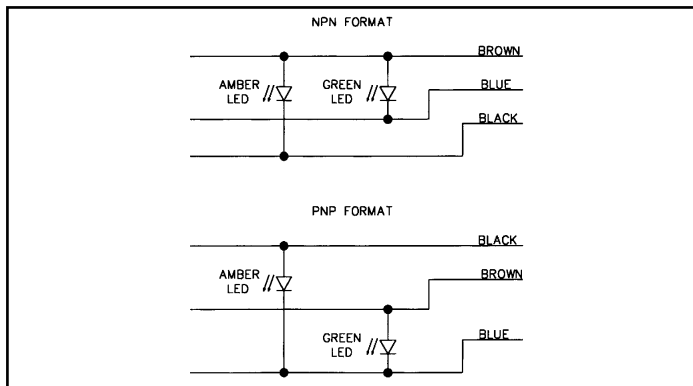
POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	RIGHT ANGLE — PNP	RIGHT ANGLE — NPN
3		1. Brown 2. Not Used 3. Blue 4. Black 5. Not Used	10-30 VDC 3A	22	2 3 4 5	5000117-P8N 5000117-P9N 5000117-P10N 5000117-P11N	5000117-N8N 5000117-N9N 5000117-N10N 5000117-N11N

## MICRO-MINI DC DIN LED FEMALE PLUG WITH BRAIDED CABLE, ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	RIGHT ANGLE — PNP	RIGHT ANGLE — NPN
3		1. Brown 2. Not Used 3. Blue 4. Black 5. Not Used	10-30 VDC 3A	22	2 3 4 5	5000117-P8B 5000117-P9B 5000117-P10B 5000117-P11B	5000117-N8B 5000117-N9B 5000117-N10B 5000117-N11B

Note: Special lengths available upon request — consult factory.  
Stainless steel coupling nut available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MICRO-MINI DC DIN Y-SPLITTER (4 POLE)

- 18 and 22 AWG (22 AWG available on 5 pole)
- 300V 105°C AWM Cable
- Standard and Low Profile Versions Available
- 12" Drop Length — Standard
- Epoxy Coated Zinc Diecast Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL-STD-202F

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, 90A durometer, oil resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow AWM, UL style 2661, PVC jacket

Contacts:

Machined Brass

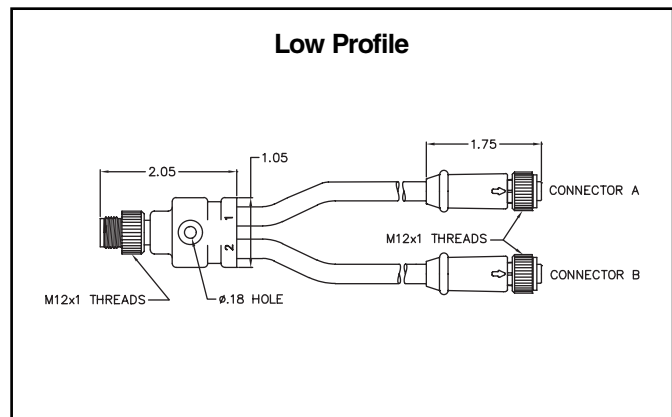
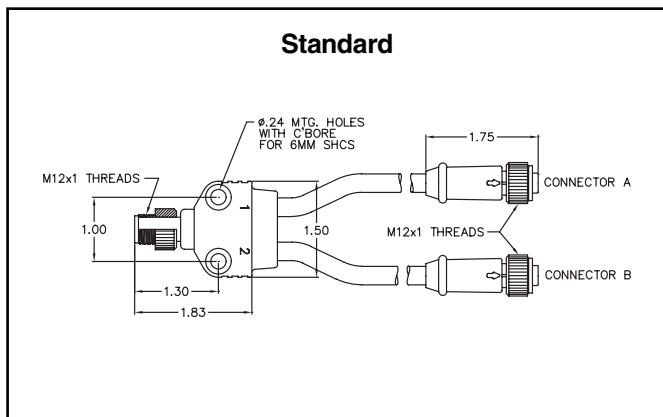
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel


Coupling Nut:

Diecast Zamak 5 with black epoxy coat


## DIMENSIONS



# MICRO-MINI DC DIN Y-SPLITTER

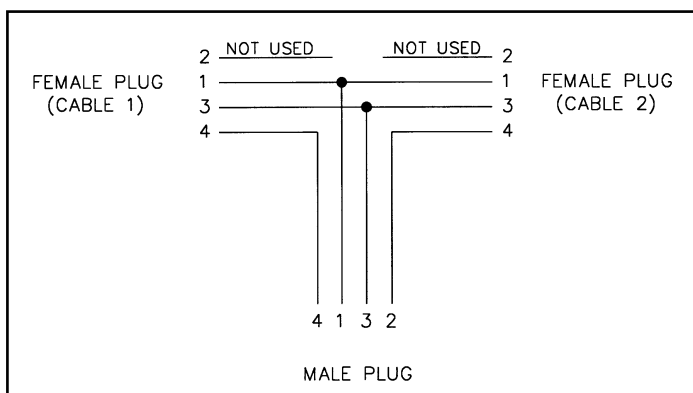
POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STANDARD	LOW PROFILE
4		1. Brown 2. Not Connected 3. Blue 4. Black (1) 4. White (2) 5. Not Used	300V, 4A	22	12"	5000118-197	5000118-317

# MICRO-MINI DC DIN Y-SPLITTER

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STANDARD	LOW PROFILE
4		1. Brown 2. Not Connected 3. Blue 4. Black (1) 4. White (2) 5. Not Used	300V, 5A	18	12"	5000118-198	5000118-318

Note: Special lengths available upon request — consult factory.  
 Stainless steel coupling nut available — consult factory.

# WIRING DIAGRAM





# SPECIFICATIONS MICRO-MINI DC DIN T-SPLITTER (4 POLE)

- 22 AWG Standard Color Code
- 300V 105°C AWM
- Black Epoxy Coated Hardware
- Meets Current SAE #H1738-2 Specifications
- Vibration Resistant Ratchet Design (Diecast Coupler)



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

### Material Data

Body:

Yellow, 90A durometer, flame resistant PVC

Insert:

Yellow, PUR

Cable:

Yellow AWM, UL style 2661, PVC jacket

Contacts:

Machined Brass

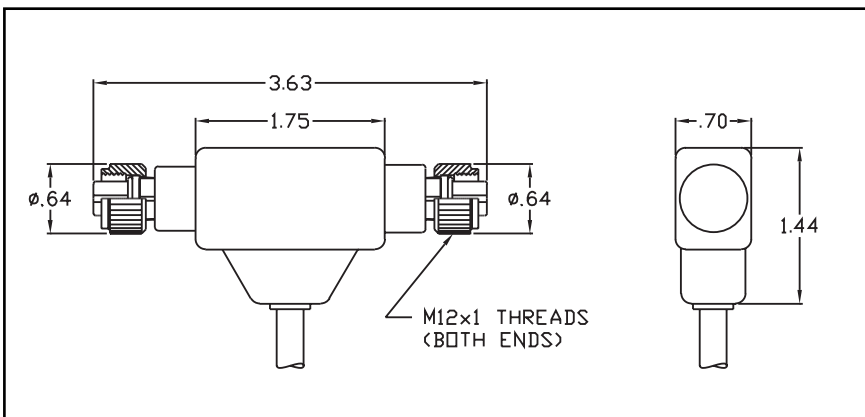
Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel


Coupling Nut:

Diecast Zamak 5 with black epoxy coat

## DIMENSIONS

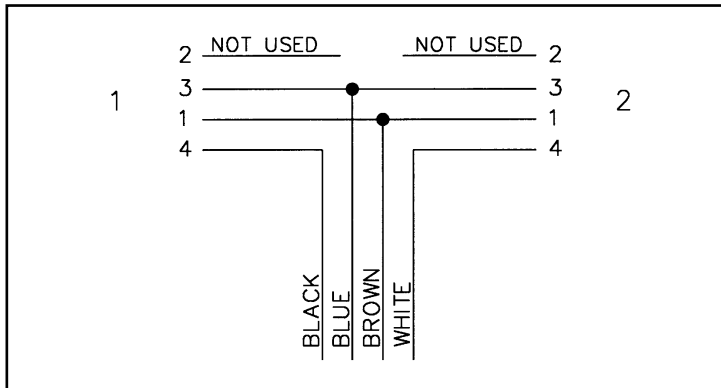


# MICRO-MINI DC DIN T-SPLITTER

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH (METERS)	SPLITTER
4		1. Brown 2. Not Connected 3. Blue 4. Black (1) 4. White (2)	300, 4A	22	1 2 4 5 10	5000118-192 5000118-193 5000118-194 5000118-195 5000118-196

Note: Special lengths available upon request — consult factory.  
 Nylon and stainless steel coupling nuts available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MICRO-MINI DC DIN TAPPING TEE (3-5 POLE)

- 18 AWG and 22 AWG Standard Color Code
- 300V 105°C
- Black Epoxy Coated Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E169897  
File #LR13963

### Electrical Data

Contact Resistance:  
Current Rating:

≤ 5mΩ  
See chart with part  
number detail

Voltage Rating:  
Dielectric Withstand Voltage:

300 VAC  
1600 VAC

### Environmental Data

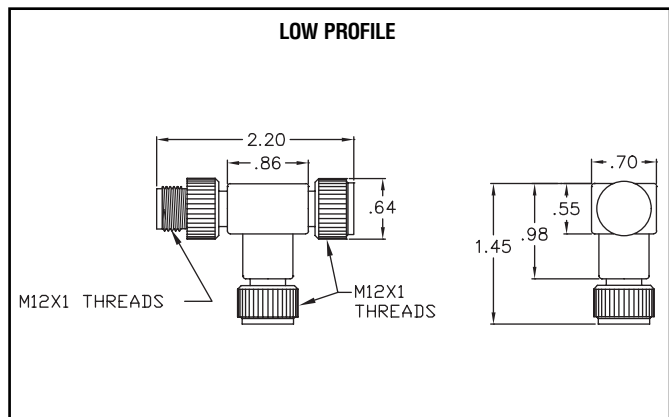
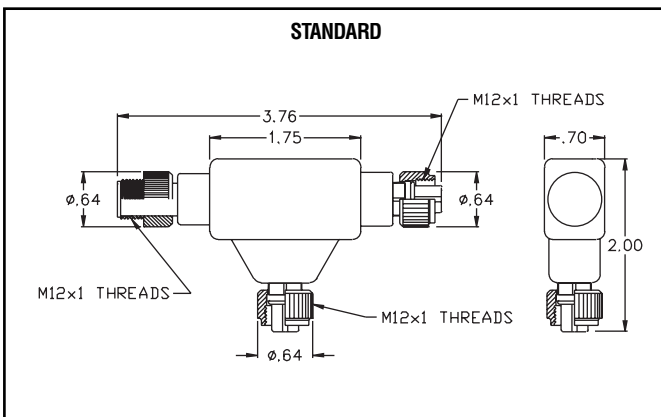
Protection:  
Temperature Range:  
Corrosion Resistance:

NEMA 1, 3, 4, 6P and 13; IEC IP 68  
-20°C to +105°C  
1000 hr. salt spray per MIL-STD-202F

### Material Data

Body: Yellow, 90A durometer, flame resistant PVC  
Insert: Yellow, Polyurethane  
Contacts: Machined Brass  
Contact Plating: 30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
Coupling Nut: Diecast Zamak 5 with black epoxy coat

## DIMENSIONS



# MICRO-MINI DC DIN TAPPING TEE

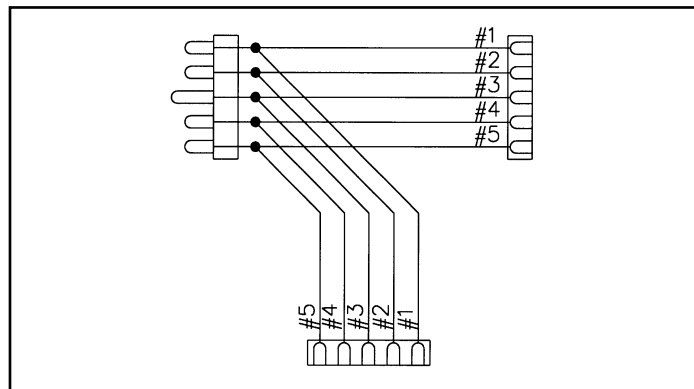
POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	STANDARD
3		1. Brown 2. Not Used 3. Blue 4. Black 5. Not Used	300V, 5A	18	5000117-201
4		1. Brown 2. White 3. Blue 4. Black 5. Not Used	300V, 5A	18	5000118-201
5		1. Brown 2. White 3. Blue 4. Black 5. Gray	300V, 5A	18	5000129-201

# MICRO-MINI DC DIN TAPPING TEE

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LOW PROFILE
3		1. Brown 2. Not Used 3. Blue 4. Black 5. Not Used	300V, 4A	22	5000117-258
4		1. Brown 2. White 3. Blue 4. Black 5. Not Used	300V, 4A	22	5000118-258
5		1. Brown 2. White 3. Blue 4. Black 5. Gray	300V, 4A	22	5000129-258

Note: Stainless steel coupling nut available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MICRO-MINI DC DIN MALE RECEPTACLES (3-5 POLE)

- Male Receptacle — External Threads
- 22 AWG and 18 AWG (except 5 pole)
- Machined Aluminum Shell
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Insert:

Yellow, Nylon

Pigtail Leads:

AWM/MTW UL style 1430 or 1569

Contacts:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

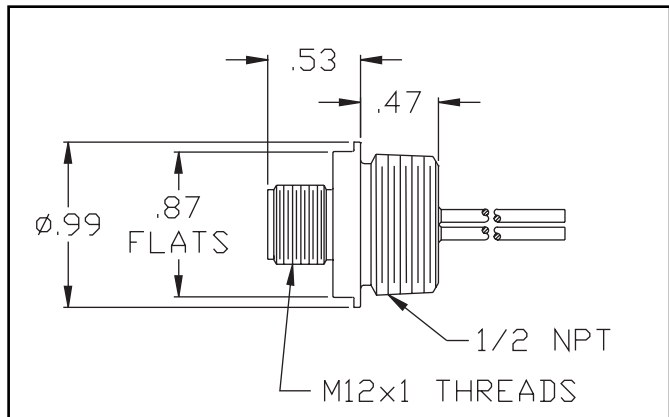
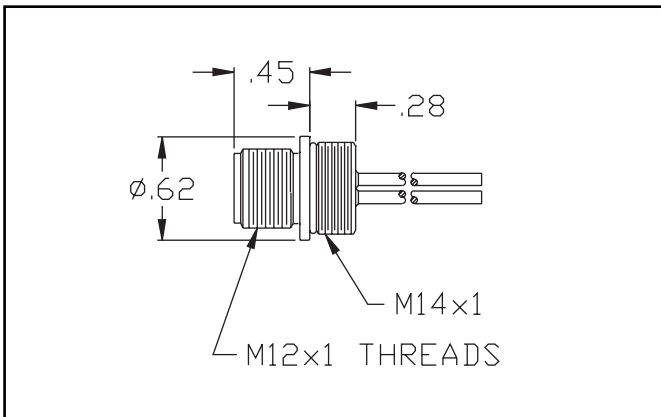
Receptacle Shell:

Machined Aluminum with black anodized finish




Potting Compound:

Black rigid epoxy



## DIMENSIONS



## MICRO-MINI DC DIN MALE RECEPTACLES WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	M14 THREAD	1/2" - 14NPT THREAD
3		1. Brown 2. Not Used 3. Blue 4. Black 5. Not Used	300V, 4A	22	3" 6" 12"	5000117-1 5000117-4123 5000117-4124	5000117-12 5000117-4125 5000117-4105
4		1. Brown 2. White 3. Blue 4. Black 5. Not Used	300V, 4A	22	3" 6" 12"	5000118-1 5000118-4159 5000118-4144	5000118-12 5000118-4160 5000118-4060
5		1. Brown 2. White 3. Blue 4. Black 5. Gray	300V, 4A	22	3" 6" 12"	5000129-1 5000129-95 5000129-96	5000129-12 5000129-97 5000129-84

## MICRO-MINI DC DIN TAPPING TEE WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	M14 THREAD	1/2" - 14NPT THREAD
3		1. Brown 2. Not Used 3. Blue 4. Black 5. Not Used	300V, 5A	18	3" 6" 12"	5000117-4126 5000117-4127 5000117-4128	5000117-4129 5000117-4130 5000117-4131
4		1. Brown 2. White 3. Blue 4. Black 5. Not Used	300V, 5A	18	3" 6" 12"	5000118-233 5000118-234 5000118-235	5000118-165 5000118-236 5000118-103

Note: Special lead lengths available upon request — consult factory.  
Stainless steel receptacle shell available — consult factory.



# SPECIFICATIONS MICRO-MINI DC DIN FEMALE RECEPTACLES (3-5 POLE)

- Female Receptacle — Internal Threads
- 22 AWG
- Machined Aluminum Shell
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Insert:

Yellow, nylon

Pigtail Leads:

AWM/MTW UL style 1430 or 1569

Contacts:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

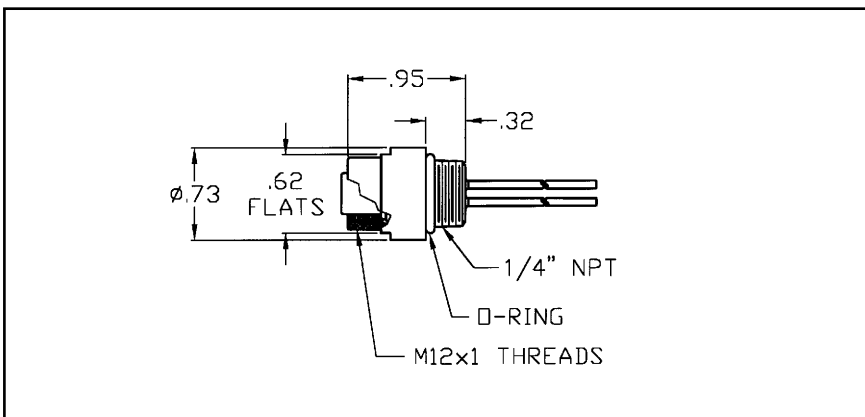
Receptacle Shell:

Machined Aluminum with black anodize finish




Potting Compound:

Black rigid epoxy

## DIMENSIONS



# MICRO-MINI DC DIN FEMALE RECEPTACLES WITH MACHINED ALUMINUM RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	1/4" - 18NPT THREAD
3		1. Brown 2. Not Used 3. Blue 4. Black 5. Not Used	300V, 4A	22	3" 6" 12"	5000117-4132 5000117-63 5000117-4133
4		1. Brown 2. White 3. Blue 4. Black 5. Not Used	300V, 4A	22	3" 6" 12"	5000118-4161 5000118-63 5000118-4085
5		1. Brown 2. White 3. Blue 4. Black 5. Gray	300V, 4A	22	3" 6" 12"	5000129-63 5000129-98 5000129-99

Note: Special lead lengths available upon request — consult factory.  
Stainless steel receptacle shell available — consult factory.

# SPECIFICATIONS MICRO-MINI DC DIN FIELD ATTACHABLE (4-5 POLE)

- PG7 and PG9 Thread (Grommet) Sizes
- Female and Male-In-Line Versions
- Straight and Right Angle Configuration
- Terminal Screw Attachments
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5\text{m}\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3; IEC IP 67

Temperature Range:

-25°C to +90°C

### Material Data

Body:

Black, Nylon

Insert:

Black, Nylon

Contact:

Machined Brass

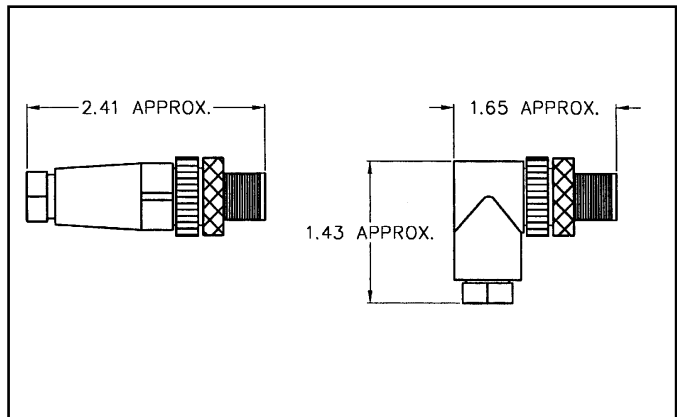
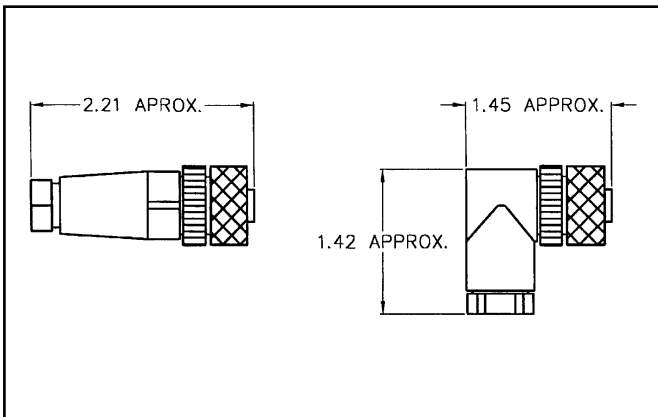
Contact Plating:

Silver



Coupling Nut:

Zinc diecast with nickel plating



## DIMENSIONS



## MICRO-MINI DC DIN FEMALE FIELD ATTACHABLE

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	CABLE DIA. RANGE	STRAIGHT	RIGHT ANGLE
4		1. Brown 2. White 3. Blue 4. Black 5. Not Used	300V, 4A	4-6 mm (PG 7) 6-8 mm (PG 9)	5000118-91 5000118-287	5000118-216 5000118-288
5		1. Brown 2. White 3. Blue 4. Black 5. Gray	300V, 3A	4-6 mm (PG 7) 6-8 mm (PG 9)	5000129-91 5000129-287	5000129-100 5000129-288

## MICRO-MINI DC DIN MALE-IN-LINE FIELD ATTACHABLE

POLES	FACE VIEW MALE	COLOR CODE	RATING	CABLE DIA. RANGE	STRAIGHT	RIGHT ANGLE
4		1. Brown 2. White 3. Blue 4. Black 5. Not Used	300V, 4A	4-6 mm (PG 7) 6-8 mm (PG 9)	5000118-93 5000118-292	5000118-217 5000118-293
5		1. Brown 2. White 3. Blue 4. Black 5. Gray	300V, 3A	4-6 mm (PG 7) 6-8 mm (PG 9)	5000129-93 5000129-292	5000129-101 5000129-293

# SPECIFICATIONS MICRO-MINI AC DIN STANDARD FEMALE PLUGS (4 POLE 3 WIRE)

- 22 AWG Standard Color Code
- 300V 105°C AWM Cable
- Straight and Right Angle Versions
- Hardware Options Below
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

CSA Certification:

File #E169897

File #LR13963

### Electrical Data

Contact Resistance:

Current Rating:

$\leq 5m\Omega$

See chart with part number detail

Voltage Rating:

Dielectric Withstand Voltage:

300 VAC/300 VDC

1600 VAC

### Environmental Data

Protection:

Temperature Range:

Corrosion Resistance:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

-20°C to +105°C

1000 hr. salt spray per MIL-STD-202F

### Material Data

Body:

Insert:

Cable:

Contacts:

Contact Plating:

Coupling Nut:

Yellow, 90A durometer, flame resistant PVC

Gray, Polyurethane

Yellow, AWM UL Style 2661

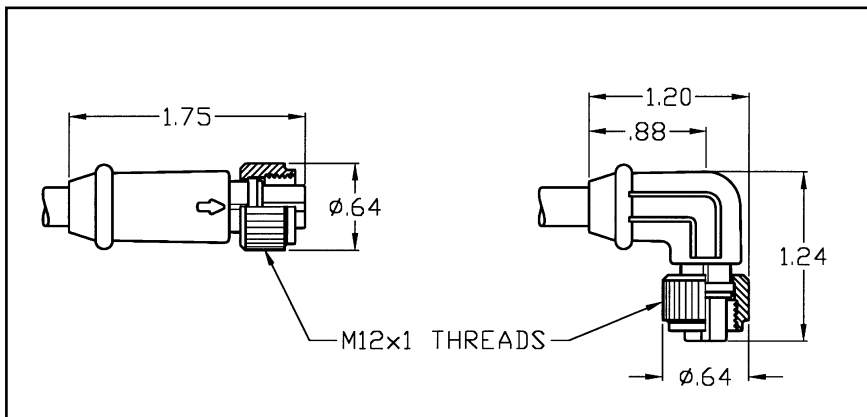
Machined Brass

Gold over Nickel


Diecast Zamak 5 with black epoxy coat

Nylon 6/6 weather stabilized


## DIMENSIONS



**MICRO-MINI AC DIN STANDARD FEMALE PLUG** WITH **ZINC DIECAST** COUPLING NUT

<b>POLES</b>	<b>FACE VIEW FEMALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>CABLE LENGTH (METERS)</b>	<b>STRAIGHT</b>	<b>RIGHT ANGLE</b>
4		1. Black	300V, 3A	22	1	5000126-2	5000126-7
		2. Blue			2	5000126-3	5000126-8
		3. Not Used			3	5000126-4	5000126-9
		4. Green/Yellow			4	5000126-5	5000126-10
		5			5000126-6	5000126-11	

**MICRO-MINI AC DIN STANDARD FEMALE PLUG** WITH **NYLON** COUPLING NUT

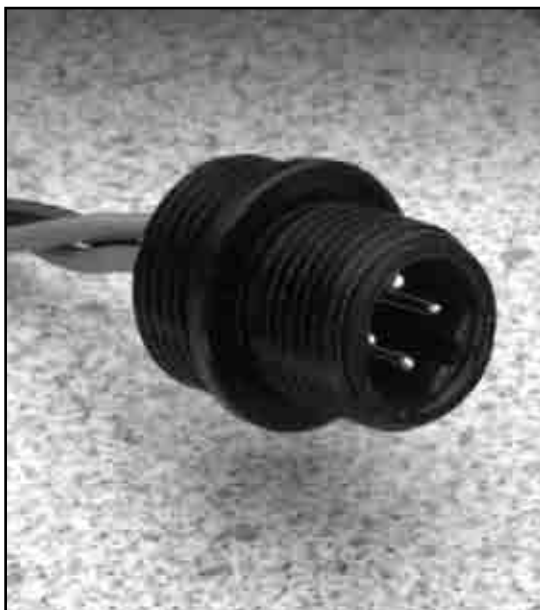
<b>POLES</b>	<b>FACE VIEW FEMALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>CABLE LENGTH (METERS)</b>	<b>STRAIGHT</b>	<b>RIGHT ANGLE</b>
4		1. Black	300V, 3A	22	1	5000126-2N	5000126-7N
		2. Blue			2	5000126-3N	5000126-8N
		3. Not Used			3	5000126-4N	5000126-9N
		4. Green/Yellow			4	5000126-5N	5000126-10N
		5			5000126-6N	5000126-11N	

Note: Special lengths available upon request — consult factory.



# SPECIFICATIONS MICRO-MINI AC DIN STANDARD MALE RECEPTACLES (4 POLE 3 WIRE)

- 22 AWG Standard Color Code
- 300V 105°C AWM Leads
- Machined Aluminum Hardware
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

See chart with part number detail

Voltage Rating:

300 VAC/300 VDC

Dielectric Withstand Voltage:

1600 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +105°C

### Material Data

Insert:

PUR, black

Pigtail Leads:

AWM/MTW UL style 1430 or 1569

Contacts:

Machined Brass

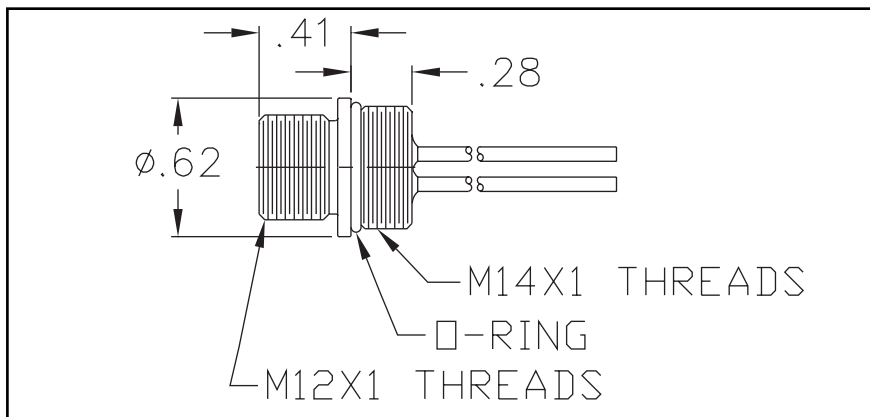
Contact Plating:

Gold

Receptacle Shell:

Machined aluminum with black anodized finish  
Nylon 6/6


## DIMENSIONS



**MICRO-MINI AC DIN MALE RECEPTACLES** WITH **ZINC DIECAST** RECEPTACLE SHELL

<b>POLES</b>	<b>FACE VIEW MALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>LEAD LENGTH</b>	<b>M14X1 THREAD</b>
4		1. Black 2. Blue 3. Not Used 4. Green/Yellow	300V, 3A	22	3"	5000126-1

**MICRO-MINI AC DIN MALE RECEPTACLES** WITH **NYLON** RECEPTACLE SHELL

<b>POLES</b>	<b>FACE VIEW MALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>LEAD LENGTH</b>	<b>M14X1 THREAD</b>
4		1. Black 2. Blue 3. Not Used 4. Green/Yellow/	300V, 3A	22	3"	5000126-1N



# SPECIFICATIONS MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – “PARALLEL WIRED”

- Parallel Wired Circuit
- 4, 6, 8 Ports Available
- Female Output Receptacles
- Dual Key Micro-Mini Configuration
- Top or Side Mount Outputs
- Male Input Receptacle (Side Mount)
- Input Cable Option (Top Mount)
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals



File #E169897

### Electrical Data

Contact Resistance:	≤ 5mΩ
Current Rating:	3 AMPS
Voltage Rating:	300 VAC

### Environmental Data

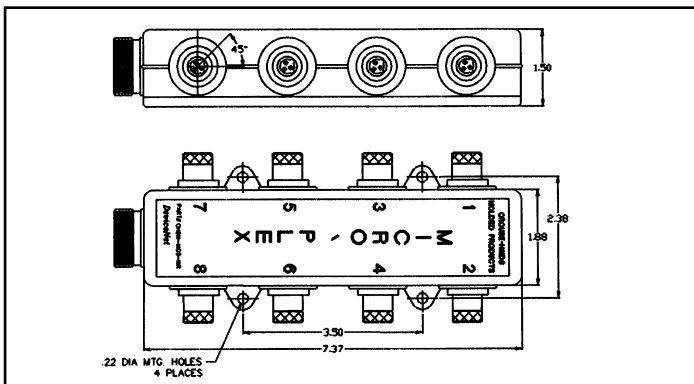
Protection:	NEMA 1, 3, 4, 6P and 13; IEC IP 68
Temperature Range:	-20°C to +105°C
High Pressure Water Test:	1200 PSI spray

### Material Data

Body:	Yellow, PET (black optional)
Insert:	Black, PUR
Input Cable:	Optional — consult factory
Contacts:	Machined Brass
Contact Plating:	24 karat Gold over Nickel
Receptacle Shell:	Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

Note: see pages 192-193 for dimensions



# MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – “PARALLEL WIRED”

PORTS	FACE VIEW FEMALE	COLOR CODE	CABLE LENGTH (METERS)	TOP MOUNT PART NUMBER	SIDE MOUNT PART NUMBER
4		1. Green 2. Red-Black 3. Red-White	5 10	MMAT4F3A050M MMAT4F3A100M	MMAS4F3A000*
6		1. Green 2. Red-Black 3. Red-White	5 10	MMAT6F3A050M MMAT6F3A100M	MMAS6F3A000*
8		1. Green 2. Red-Black 3. Red-White	5 10	MMAT8F3A050M MMAT8F3A100M	MMAS8F3A000*

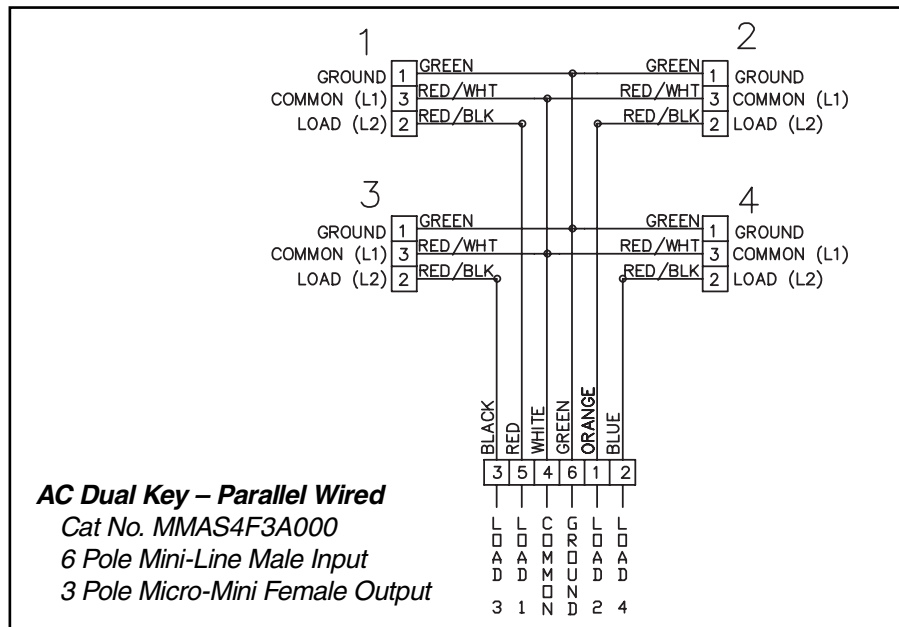
\* Side mount micro-plex utilize male input receptacle

Note: Special input cable lengths available for top and side mount devices upon request — consult factory.

Male input plug option available for top and side mount devices — consult factory.

Stainless steel hardware available upon request — consult factory.

## WIRING DIAGRAM AC PARALLEL



# SPECIFICATIONS MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – “SERIES WIRED”

- Series Wired Circuit
- 4, 6, 8 Ports Available
- Female Output Receptacles
- Dual Key Micro-Mini Configuration
- Top or Side Mount Outputs
- Male Input Receptacle (Side Mount)
- Input Cable Option (Top Mount)
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals



File #E169897

### Electrical Data

Contact Resistance:	≤ 5mΩ
Current Rating:	3 AMPS
Voltage Rating:	300 VAC

### Environmental Data

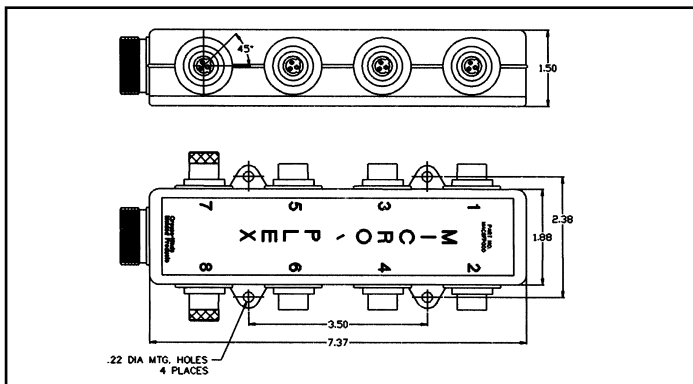
Protection:	NEMA 1, 3, 4, 6P and 13; IEC IP 68
Temperature Range:	-20°C to +105°C
High Pressure Water Test:	1200 PSI spray

### Material Data

Body:	Yellow, PET (black optional)
Insert:	Black, PUR
Input Cable:	Optional — consult factory
Contacts:	Machined Brass
Contact Plating:	24 karat Gold over Nickel
Receptacle Shell:	Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

Note: see pages 192-193 for dimensions





# MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – “SERIES WIRED”

PORTS	FACE VIEW FEMALE	COLOR CODE	CABLE LENGTH (METERS)	TOP MOUNT PART NUMBER	SIDE MOUNT PART NUMBER
4		1. Green 2. Red-Black 3. Red-White	5 10	MMAT4F3B050M MMAT4F3B100M	MMAS4F3B000*
6		1. Green 2. Red-Black 3. Red-White	5 10	MMAT6F3B050M MMAT6F3B100M	MMAS6F3B000*
8		1. Green 2. Red-Black 3. Red-White	5 10	MMAT8F3B050M MMAT8F3B100M	MMAS8F3B000*

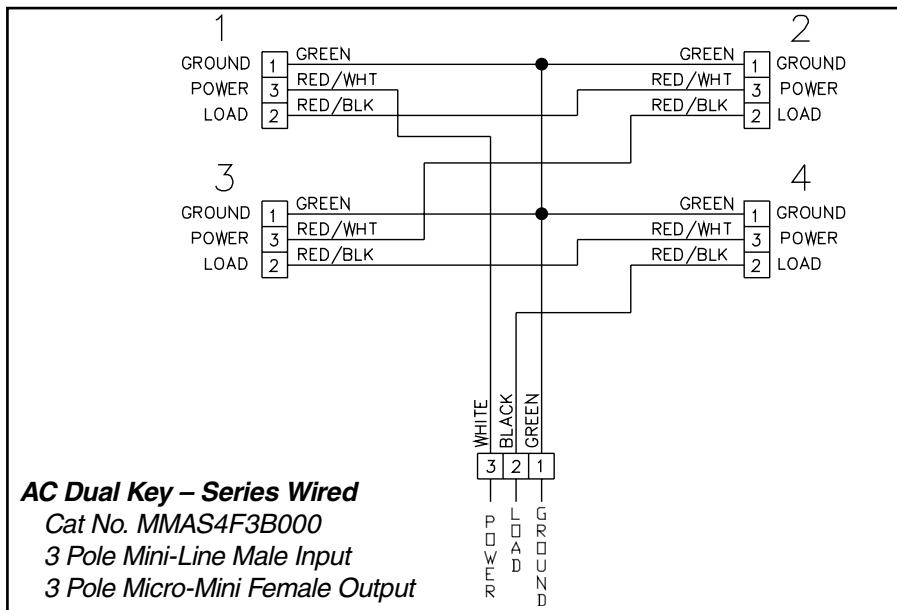
\* Side mount micro-plex utilize male input receptacle

Note: Special input cable lengths available for top and side mount devices upon request — consult factory.

Male input plug option available for top and side mount devices — consult factory.

Stainless steel hardware available upon request — consult factory.

## WIRING DIAGRAM AC SERIES



# SPECIFICATIONS MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – “LED”

- “LED” Wired Circuit
- 4, 6, 8 Ports Available
- Female Output Receptacles
- Dual Key Micro-Mini Configuration
- Top or Side Mount Outputs
- Male Input Receptacle (Side Mount)
- Input Cable Option (Top Mount)
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

CULUS :

File #E169897

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: 3 AMPS  
 Voltage Rating: 120 VAC

### Environmental Data

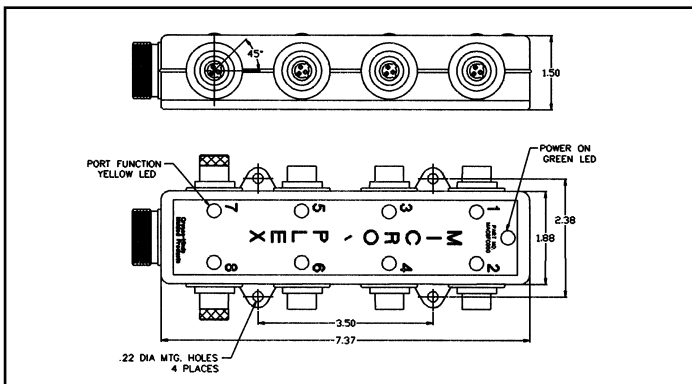
Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
 Temperature Range:  $-20^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$   
 High Pressure Water Test: 1200 PSI spray

### Material Data

Body: Yellow, PET (black optional)  
 Insert: Black, PUR  
 Input Cable: Optional — consult factory  
 Contacts: Machined Brass  
 Contact Plating: 24 karat Gold over Nickel  
 Receptacle Shell: Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

Note: see pages 192-193 for dimensions



# MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – “LED”

PORTS	FACE VIEW FEMALE	COLOR CODE	CABLE LENGTH (METERS)	TOP MOUNT PART NUMBER	SIDE MOUNT PART NUMBER
4		1. Green 2. Red-Black 3. Red-White	5 10	MMAT4F3L050M MMAT4F3L100M	MMAS4F3L000*
6		1. Green 2. Red-Black 3. Red-White	5 10	MMAT6F3L050M MMAT6F3L100M	MMAS6F3L000*
8		1. Green 2. Red-Black 3. Red-White	5 10	MMAT8F3L050M MMAT8F3L100M	MMAS8F3L000*

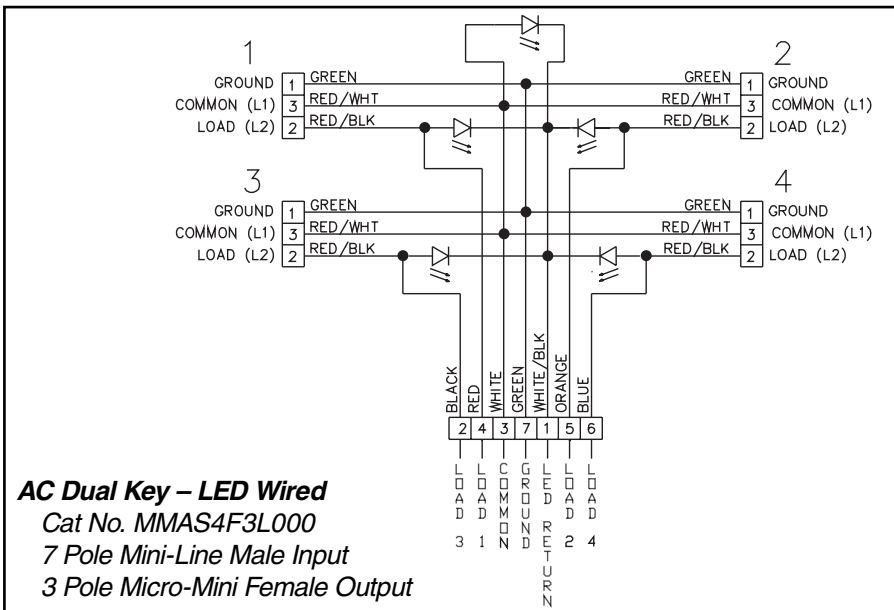
\* Side mount micro-plex utilize male input receptacle

Note: Special input cable lengths available for top and side mount devices upon request — consult factory.

Male input plug option available for top and side mount devices — consult factory.

Stainless steel hardware available upon request — consult factory.

## WIRING DIAGRAM AC LED



# SPECIFICATIONS MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – “PARALLEL” WIRING

- Parallel Wired Circuit
- 4, 6, 8 Ports Available
- Female Output Receptacles
- DC DIN Micro-Mini Configuration
- Top or Side Mount Outputs
- Male Input Receptacle (Side Mount)
- Input Cable Option (Top Mount)
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals



File #E169897

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: 3 AMPS  
 Voltage Rating: 300 VDC

### Environmental Data

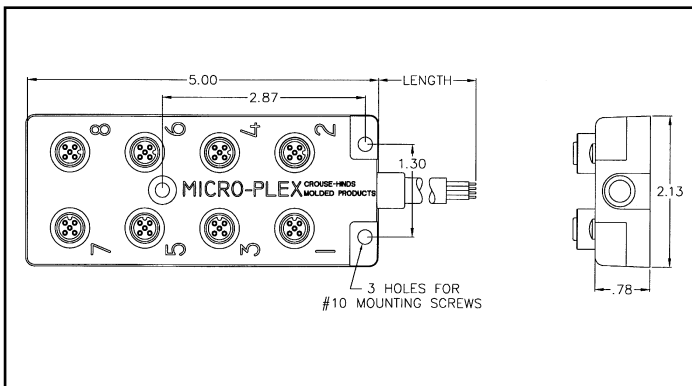
Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
 Temperature Range:  $-20^{\circ}C$  to  $+105^{\circ}C$   
 High Pressure Water Test: 1200 PSI spray

### Material Data

Body: Yellow, PET (black optional)  
 Insert: Black, PUR  
 Input Cable: Optional — consult factory  
 Contacts: Machined Brass  
 Contact Plating: 24 karat Gold over Nickel  
 Receptacle Shell: Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

Note: see pages 192-193 for dimensions



# SELECTION GUIDE MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – “PARALLEL” WIRING

PORTS	FACE VIEW FEMALE	COLOR CODE	CABLE LENGTH (METERS)	TOP MOUNT PART NUMBER	SIDE MOUNT PART NUMBER
4		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT4F4A050M MMDT4F4A100M	MMDS4F4A000*
6		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT6F4A050M MMDT6F4A100M	MMDS6F4A000*
8		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT8F4A050M MMDT8F4A100M	MMDS8F4A000*

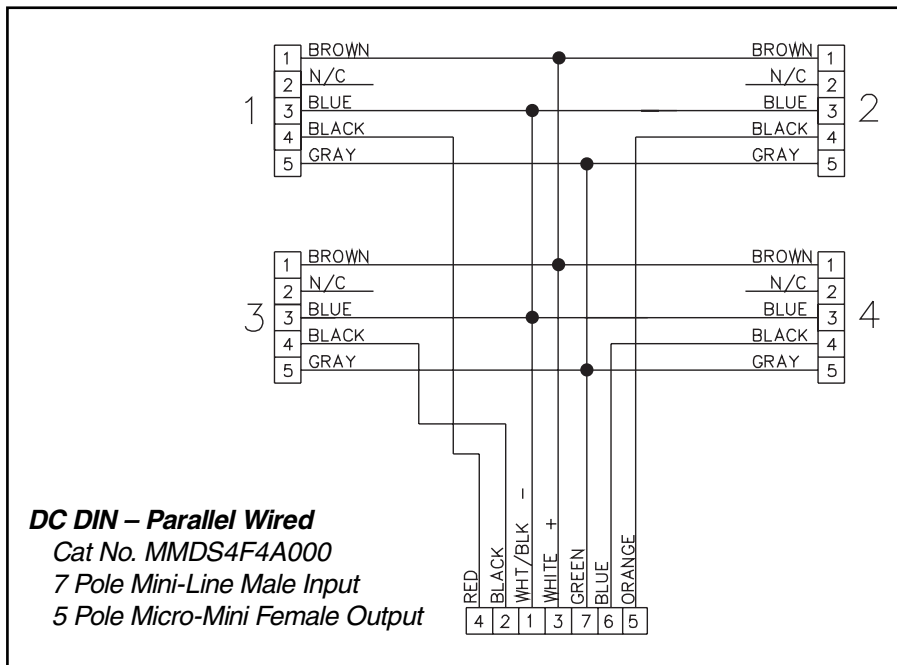
\* Side mount micro-plex utilize male input receptacle

Note: Special input cable lengths available for top and side mount devices upon request — consult factory.

Male input plug option available for top and side mount devices — consult factory.

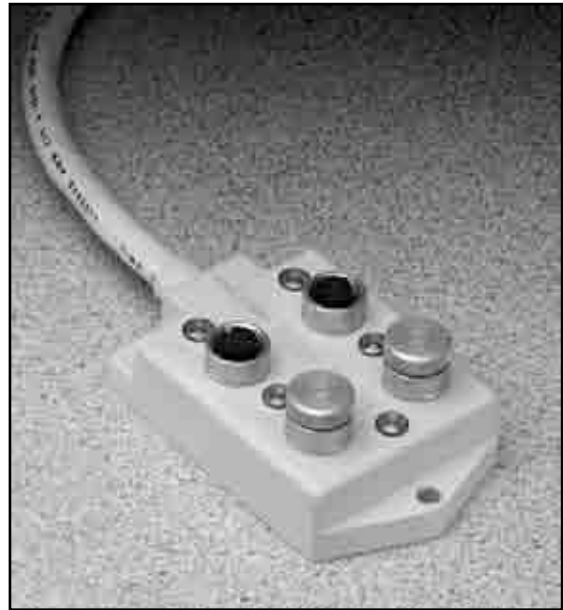
Stainless steel hardware available upon request — consult factory.

## WIRING DIAGRAM DC PARALLEL



# SPECIFICATIONS MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – LED WIRING “PNP”

- 4, 6, 8 Ports Available
- Female Output Receptacles
- DC DIN Micro-Mini Configuration
- Top or Side Mount Outputs
- Male Input Receptacle (Side Mount)
- Input Cable Option (Top Mount)
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals



File #E169897

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: 3 AMPS  
 Voltage Rating: 10-30 VDC

### Environmental Data

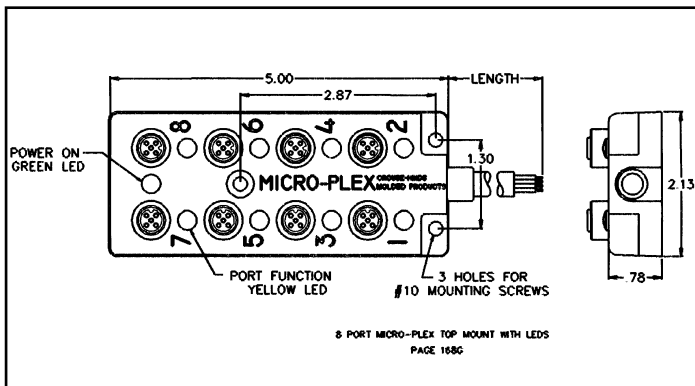
Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
 Temperature Range: -20°C to +105°C  
 High Pressure Water Test: 1200 PSI spray

### Material Data

Body: Yellow, PET (black optional)  
 Insert: Black, PUR  
 Input Cable: Optional — consult factory  
 Contacts: Machined Brass  
 Contact Plating: 24 karat Gold over Nickel  
 Receptacle Shell: Machined Aluminum with anodized finish and clear sealant




## DIMENSIONS

Note: see pages 192-193 for dimensions





# MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – LED WIRING “PNP”

PORTS	FACE VIEW FEMALE	COLOR CODE	CABLE LENGTH (METERS)	TOP MOUNT PART NUMBER	SIDE MOUNT PART NUMBER
4		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT4F4C050M MMDT4F4C100M	MMDS4F4C000*
6		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT6F4C050M MMDT6F4C100M	MMDS6F4C000*
8		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT8F4C050M MMDT8F4C100M	MMDS8F4C000*

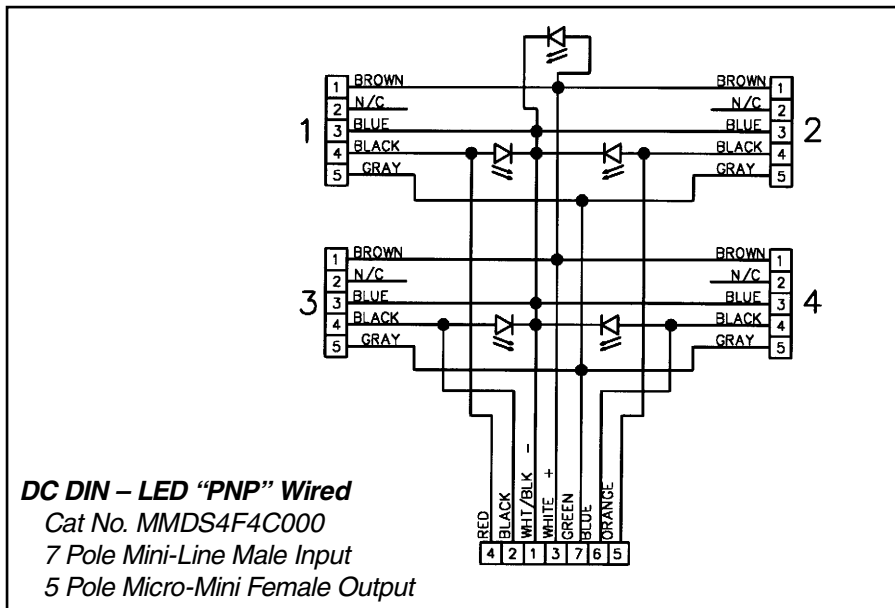
\* Side mount micro-plex utilize male input receptacle

Note: Special input cable lengths available for top and side mount devices upon request — consult factory.

Male input plug option available for top and side mount devices — consult factory.

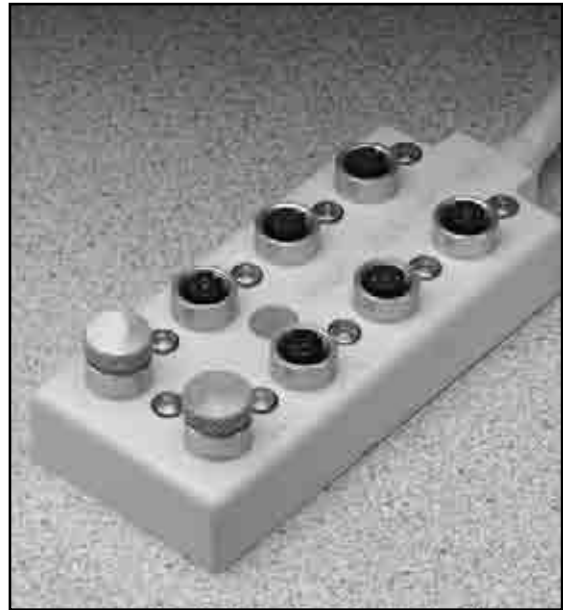
Stainless steel hardware available upon request — consult factory.

## WIRING DIAGRAM DC “PNP”



# SPECIFICATIONS MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – LED WIRING “NPN”

- 4, 6, 8 Ports Available
- Female Output Receptacles
- DC DIN Micro-Mini Configuration
- Top or Side Mount Outputs
- Male Input Receptacle (Side Mount)
- Input Cable Option (Top Mount)
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals



File #E169897

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
Current Rating: 3 AMPS  
Voltage Rating: 10-30 VDC

### Environmental Data

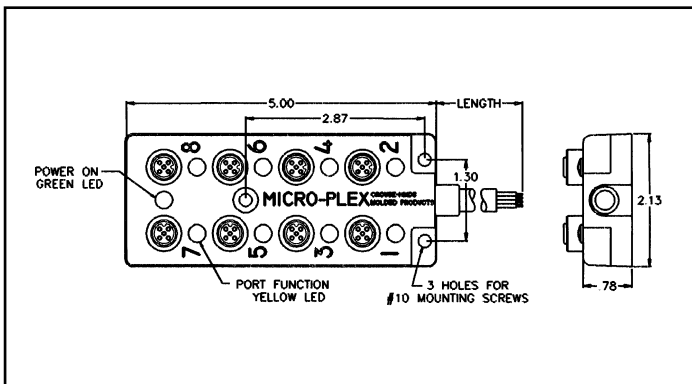
Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
Temperature Range:  $-20^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$   
High Pressure Water Test: 1200 PSI spray

### Material Data




Body: Yellow, PET (black optional)  
Insert: Black, PUR  
Input Cable: Optional — consult factory  
Contacts: Machined Brass  
Contact Plating: 24 karat Gold over Nickel  
Receptacle Shell: Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

Note: see pages 192-193 for dimensions



# MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – LED WIRING “NPN”

PORTS	FACE VIEW FEMALE	COLOR CODE	CABLE LENGTH (METERS)	TOP MOUNT PART NUMBER	SIDE MOUNT PART NUMBER
4		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT4F4N050M MMDT4F4N100M	MMDS4F4N000*
6		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT6F4N050M MMDT6F4N100M	MMDS6F4N000*
8		1. Brown 2. Not Used 3. Blue 4. Black 5. Gray	5 10	MMDT8F4N050M MMDT8F4N100M	MMDS8F4N000*

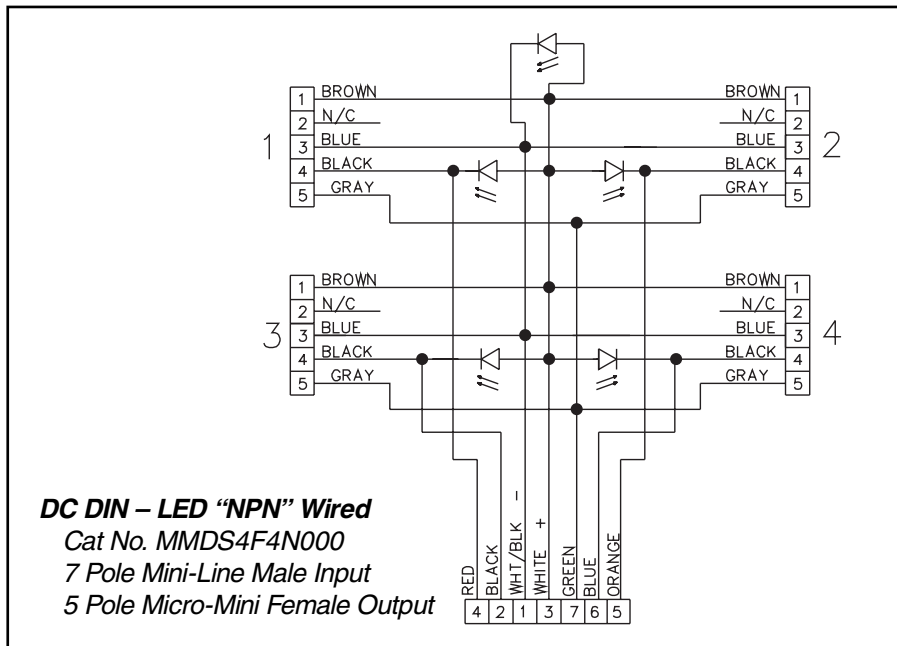
\* Side mount micro-plex utilize male input receptacle

Note: Special input cable lengths available for top and side mount devices upon request — consult factory.

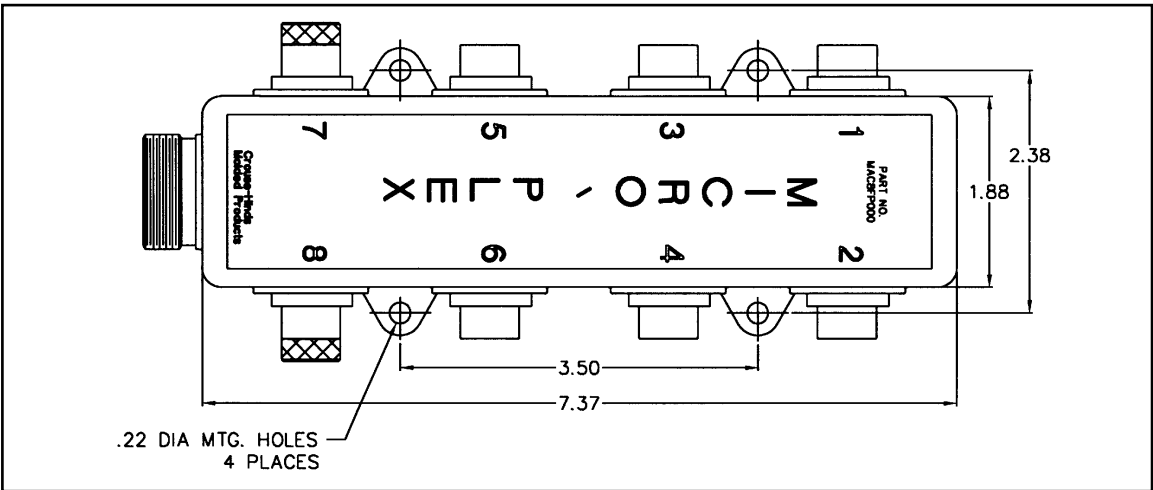
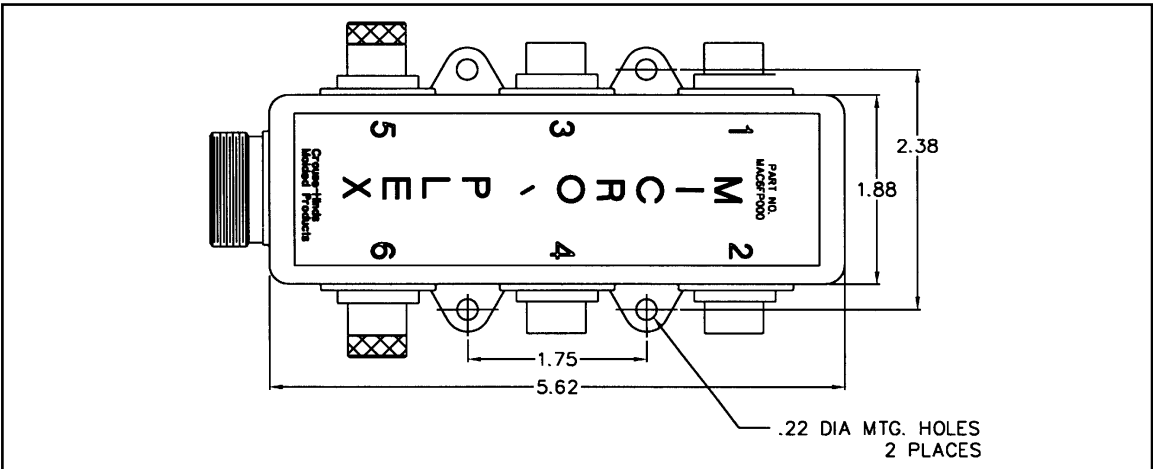
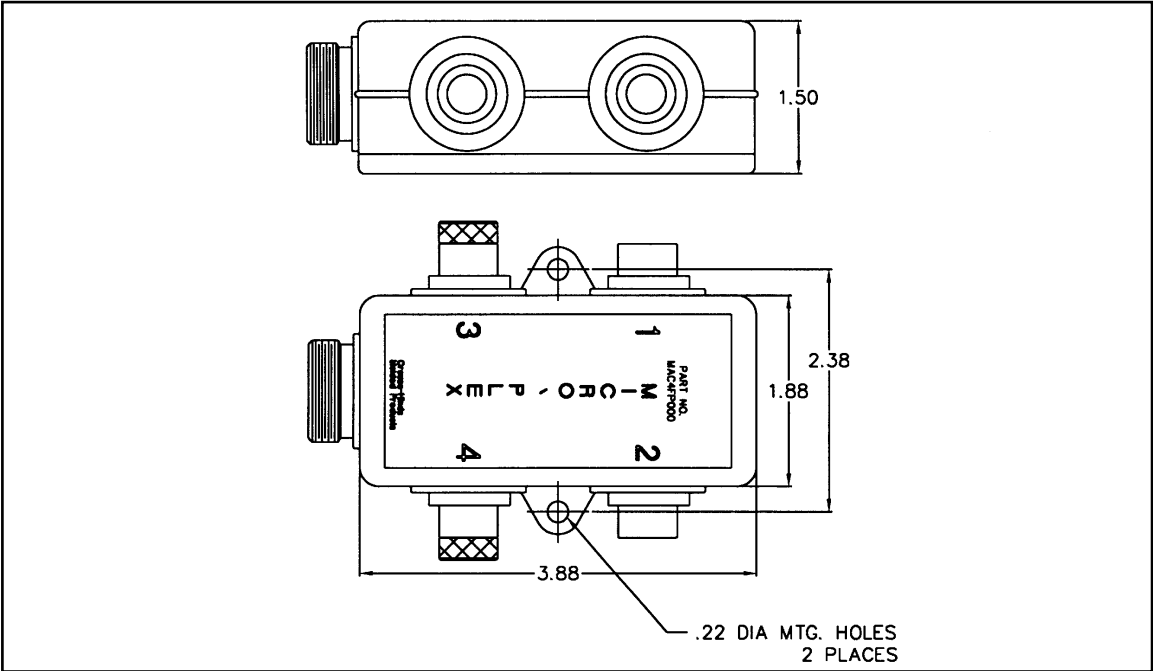
Male input plug option available for top and side mount devices — consult factory.

Stainless steel hardware available upon request — consult factory.

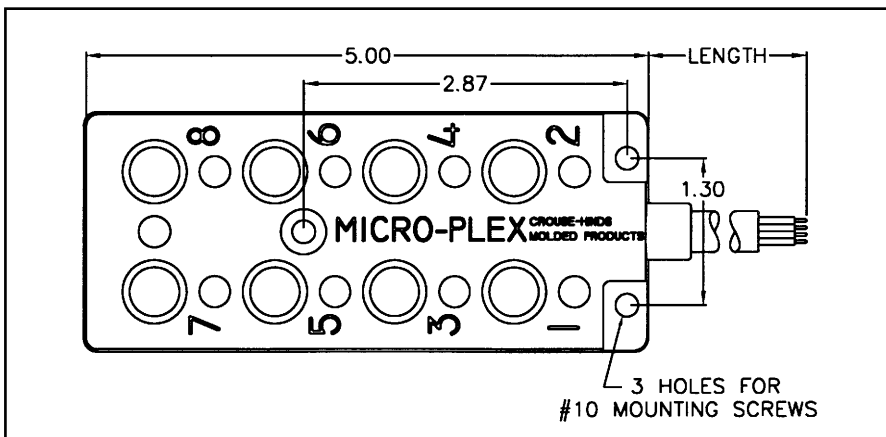
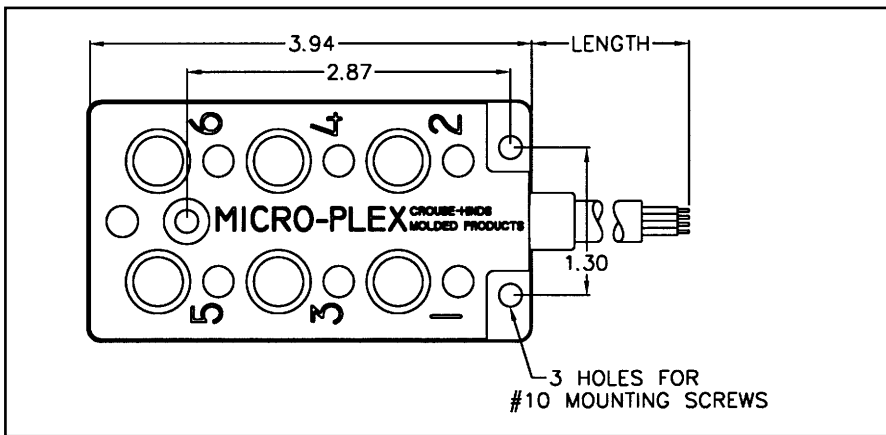
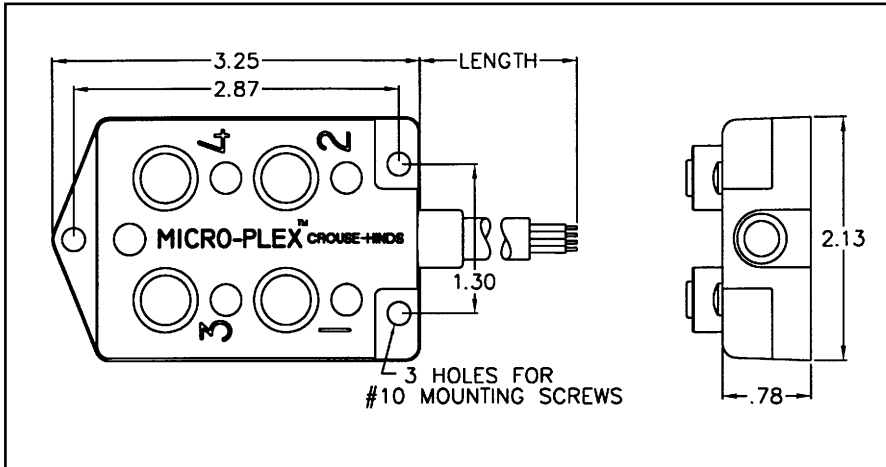
## WIRING DIAGRAM DC “NPN”



# DIMENSIONS MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – SIDE MOUNT



# DIMENSIONS MICRO-PLEX INTERCONNECT DISTRIBUTION SYSTEM – TOP MOUNT



# SPECIFICATIONS MINI-PLEX & MICRO-PLEX ACCESSORIES

- Machined Aluminum and Nylon
- Meets Current SAE #H1738-2 Specifications
- Metric and Standard Threading



## TECHNICAL DATA

### Environmental Data

Protection: IEC IP 65

### Material Data

Caps: Machined Aluminum or nylon  
Gasket: Nitrile  
Bead Chain: Stainless Steel

## MINI-PLEX CLOSURE CAPS

With Chain

**ALUMINUM  
INTERNAL THREAD**  
3316582-1

**NYLON  
INTERNAL THREAD**  
A600196-2

## MICRO-PLEX CLOSURE CAPS

With Chain  
Without Chain

**DC DIN STYLE  
M12X1 EXTERNAL THREAD**  
5000117-73  
1463343

**DUAL KEY STYLE  
1/2-20 EXTERNAL THREAD**  
3463287  
1463402



# SPECIFICATIONS MINI-PLEX INTERCONNECT DISTRIBUTION SYSTEM – PARALLEL

- “Parallel” Wired Circuit
- 4, 6, 8 Ports Available
- 3 Pole Output Receptacles (Male or Female Available)
- Input Receptacle (Input Cable Optional)
- Mounting Adapters Available
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

7 AMPS

Voltage Rating:

600VAC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-20°C to +75°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, PET

Insert:

Yellow, PVC

Input Cable:

Optional — consult factory

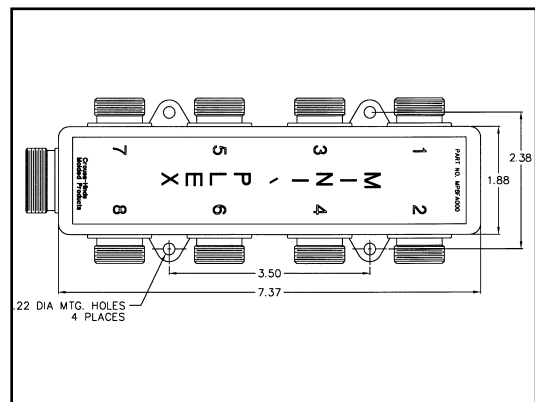
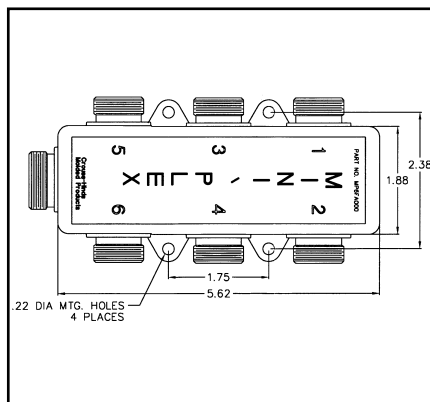
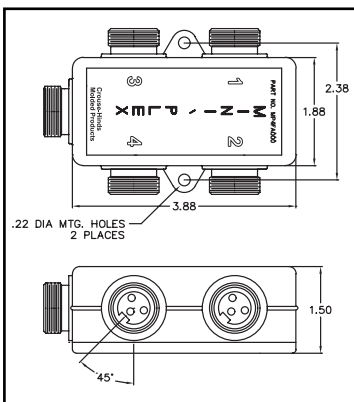
Contacts:

Machined Brass







Receptacle Shell:

Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

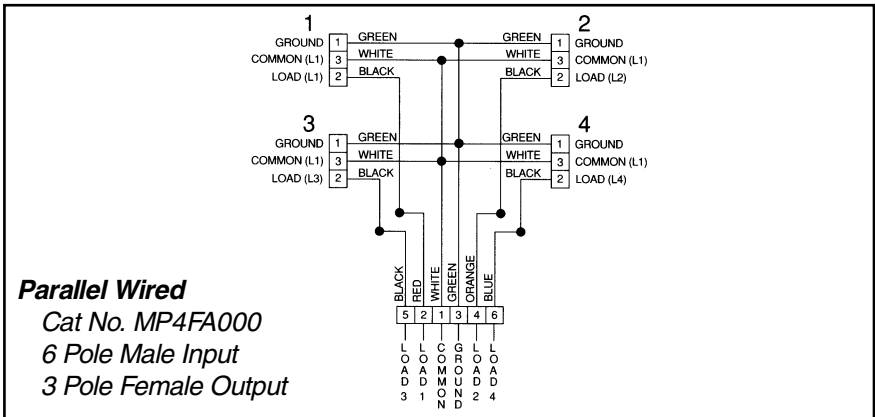


# MINI-PLEX PARALLEL WIRED

PORTS	OUTPUT RECEPTACLE FEMALE	COLOR CODE	INPUT RECEPTACLE MALE	COLOR CODE	RATING	PART NUMBER
4		1. Green 2. Black 3. White		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	7A	MP4FA000
6		1. Green 2. Black 3. White		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	7A	MP6FA000
8		1. Green 2. Black 3. White		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	7A	MP8FA000

Note: Stainless steel shells available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MINI-PLEX INTERCONNECT DISTRIBUTION SYSTEM – SERIES

- “Series” Wired Circuit
- 4, 6, 8 Ports Available
- 3 Pole Output Receptacles (Male or Female Available)
- Input Receptacle (Input Cable Optional)
- Mounting Adapters Available
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

≤ 5mΩ

Current Rating:

13 AMPS

Voltage Rating:

600VAC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, PET

Insert:

Yellow, PVC

Input Cable:

Optional — consult factory

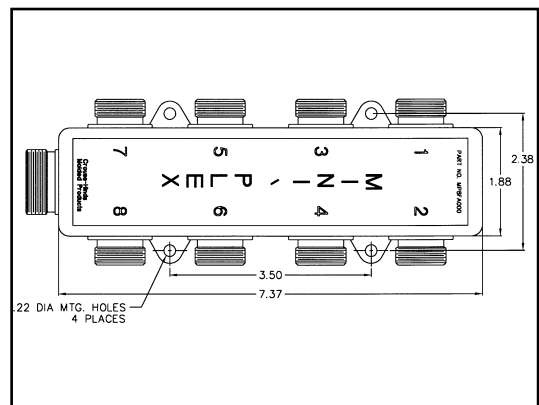
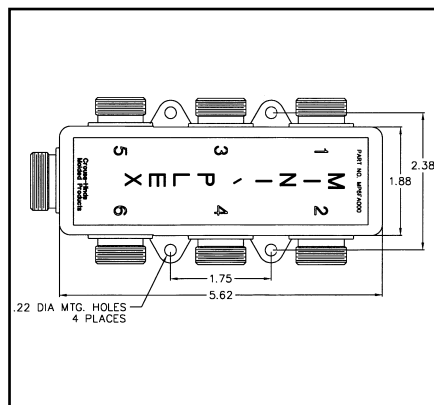
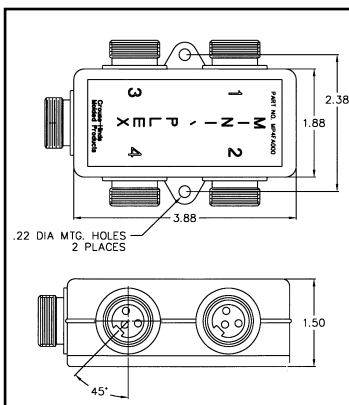
Contacts:

Machined Brass







Receptacle Shell:

Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

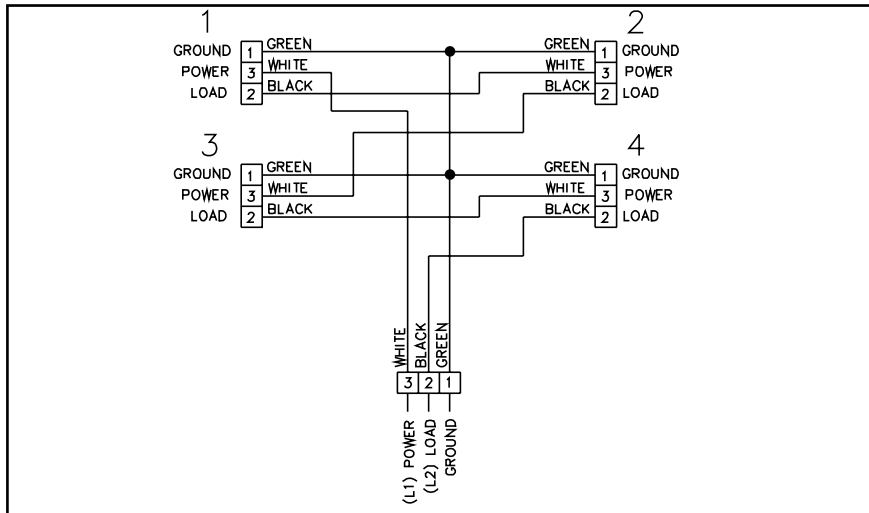


# MINI-PLEX SERIES WIRED

PORTS	OUTPUT RECEPTACLE FEMALE	COLOR CODE	INPUT RECEPTACLE MALE	COLOR CODE	RATING (MAX.)	PART NUMBER
4		1. Green 2. Black 3. White		1. Green 2. Black 3. White	13A	MP4FB000
6		1. Green 2. Black 3. White		1. Green 2. Black 3. White	13A	MP6FB000
8		1. Green 2. Black 3. White		1. Green 2. Black 3. White	13A	MP8FB000

Note: Stainless steel shells available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MINI-PLEX INTERCONNECT DISTRIBUTION SYSTEM – LED

- LED “PNP” or “NPN” Versions
- 4, 6, 8 Ports Available
- 3 Pole Output Receptacles (Male or Female Available)
- Input Receptacle (Input Cable Optional)
- Mounting Adapters Available
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:  
CSA Certification:

File #E169897  
File #LR13963

### Electrical Data

Contact Resistance:  
Current Rating:  
Voltage Rating:

≤ 5mΩ  
7 AMPS  
120VAC

### Environmental Data

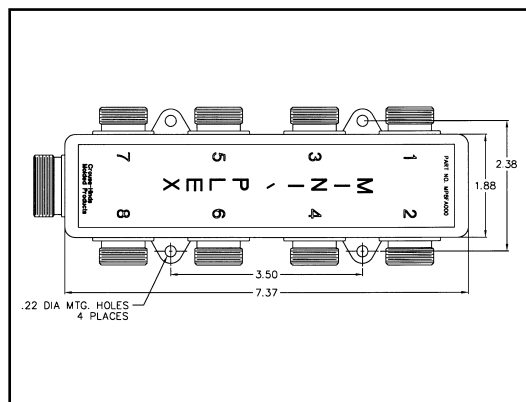
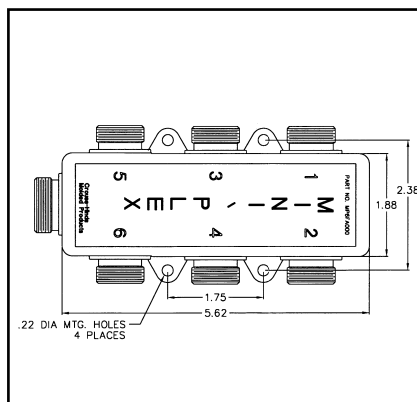
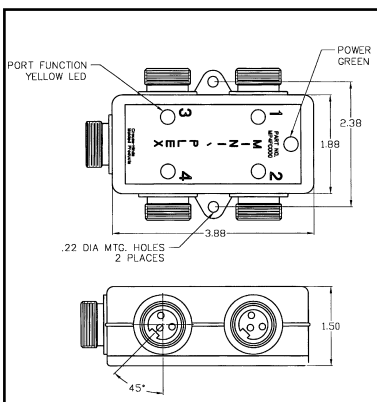
Protection:  
Temperature Range:  
High Pressure Water Test:

NEMA 1, 3, 4, 6P and 13; IEC IP 68  
-30°C to +105°C  
1200 PSI spray

### Material Data

Body: Yellow, PET  
Insert: Yellow, PVC  
Input Cable: Optional — consult factory  
Contacts: Machined Brass  
Receptacle Shell: Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

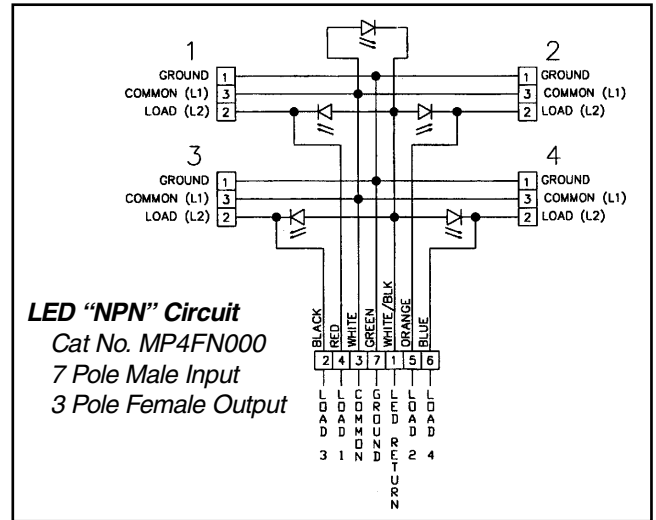
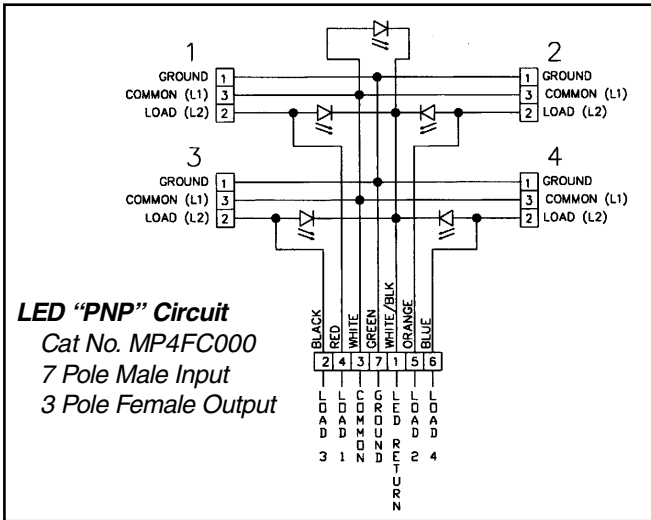


# MINI-PLEX "LED" WIRED

PORTS	OUTPUT RECEPTACLE FEMALE	COLOR CODE	INPUT RECEPTACLE MALE	COLOR CODE	RATING (MAX.)	"PNP" CIRCUIT	"NPN" CIRCUIT
4		1. Green 2. Black 3. White		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	7A	MP4FC000	MP4FN000
6		1. Green 2. Black 3. White		1. Orange 2. Blue 3. Red-Black 4. Green-Black 5. White 6. Red 7. Green 8. White-Black 9. Black	7A	MP6FC000	MP6FN000
8		1. Green 2. Black 3. White		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Blue-Black 8. Black-White 9. Green 10. Red 11. White 12. Black	7A	MP8FC000	MP8FN000

Note: Stainless steel shells available — consult factory.

## WIRING DIAGRAM





# SPECIFICATIONS MINI-PLEX INTERCONNECT DISTRIBUTION SYSTEM (4 POLE/3 WIRE)

- 4 Pole/3 Wire Configuration
- 4, 6, 8 Ports Available
- 4 Pole Output Receptacles (Male or Female Available)
- Input Receptacle (Input Cable Optional)
- Mounting Adapters Available
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

7 AMPS

Voltage Rating:

600VAC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Body:

Yellow, PET

Insert:

Yellow, PVC

Input Cable:

Optional — consult factory

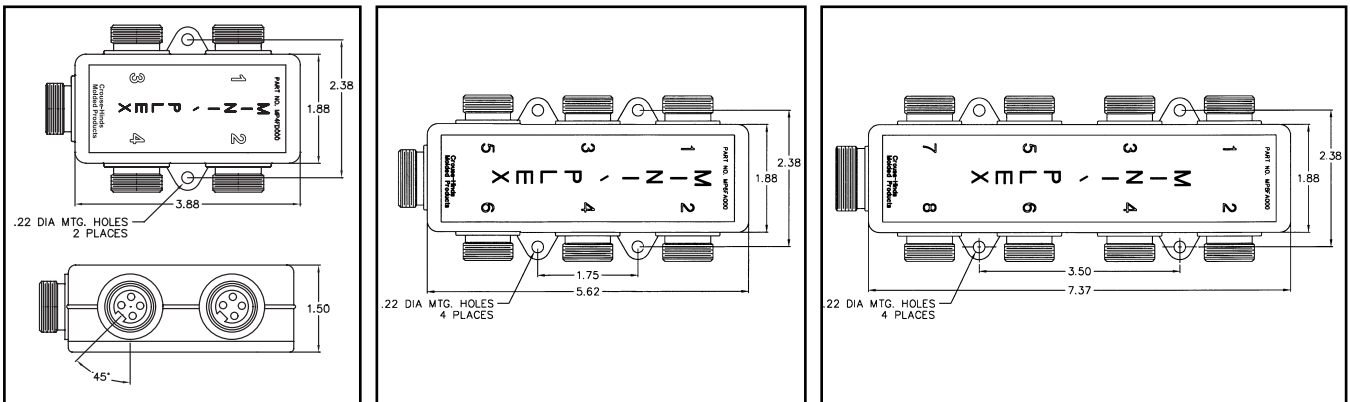
Contacts:

Machined Brass

Receptacle Shell:

Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

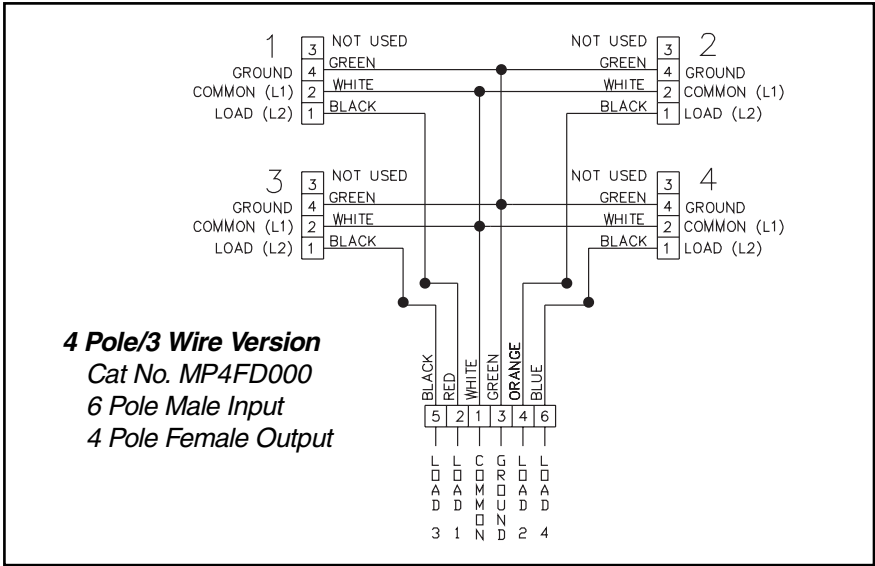


# MINI-PLEX 4 POLE/3 WIRE VERSION

PORTS	OUTPUT RECEPTACLE FEMALE	COLOR CODE	INPUT RECEPTACLE MALE	COLOR CODE	RATING (MAX.)	PART NUMBER
4		1. Black 2. White 3. Not Used 4. Green		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	7A	MP4FD000
6		1. Black 2. White 3. Not Used 4. Green		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	7A	MP6FD000
8		1. Black 2. White 3. Not Used 4. Green		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	7A	MP8FD000

Note: Stainless steel shells available — consult factory.

## WIRING DIAGRAM



# SPECIFICATIONS MINI-PLEX INTERCONNECT DISTRIBUTION SYSTEM (5 POLE)

- 5 Pin Solenoid Configuration
- 4 Port Available
- 5 Pole Output Receptacles (Male or Female Available)
- Input Receptacle (Input Cable Optional)
- Mounting Adapters Available
- Meets Current SAE #H1738-2 Specifications



## TECHNICAL DATA

### Agency Approvals

UL Recognition:

File #E 169897

CSA Certification:

File #LR13963

### Electrical Data

Contact Resistance:

$\leq 5m\Omega$

Current Rating:

7 AMPS

Voltage Rating:

600VAC

Dielectric Withstand Voltage:

2200 VAC

### Environmental Data

Protection:

NEMA 1, 3, 4, 6P and 13; IEC IP 68

Temperature Range:

-30°C to +105°C

High Pressure Water Test:

1200 PSI spray

### Material Data

Body Material:

Yellow, PET

Insert:

Yellow, PVC

Input Cable:

Optional — consult factory

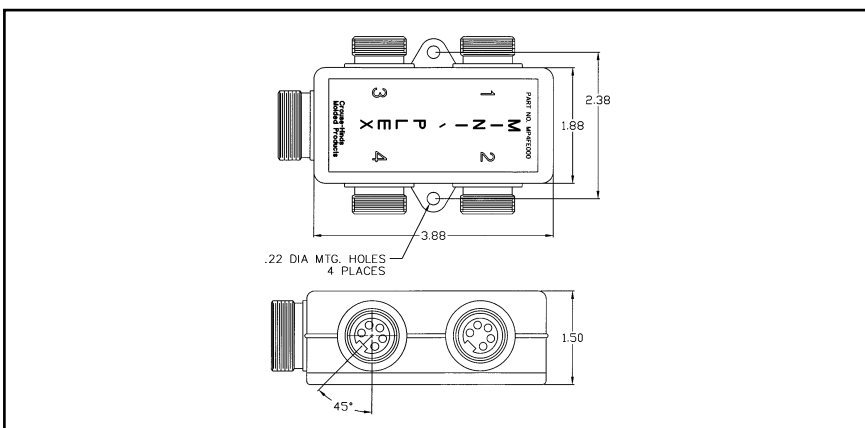
Contacts:

Machined Brass



Receptacle Shell:

Machined Aluminum with anodized finish and clear sealant

## DIMENSIONS

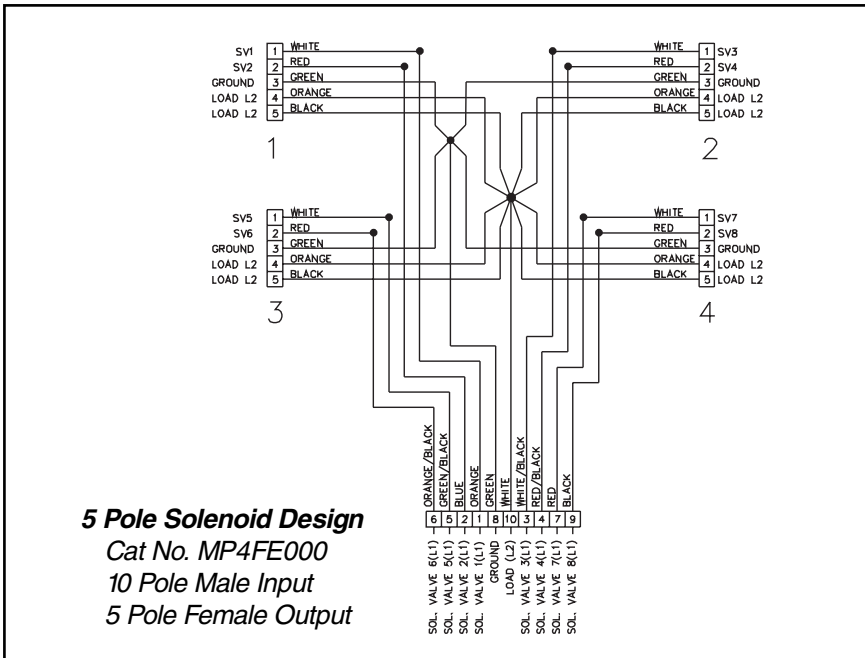


# MINI-PLEX 5 POLE SOLENOID DESIGN

PORTS	OUTPUT RECEPTACLE FEMALE	COLOR CODE	INPUT RECEPTACLE MALE	COLOR CODE	RATING (MAX.)	PART NUMBER
4		1. White 2. Red 3. Green 4. Orange 5. Black		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	7A	MP4FE000

Note: Stainless steel shells available — consult factory.

## WIRING DIAGRAM



# MINI-PLEX PART NUMBER MATRIX








DESCRIPTION	NO. OF PORTS	CROUSE-HINDS PART NUMBER	OUTPUT RECEPTACLE	INPUT RECEPTACLE	FACE VIEW FEMALE
3-Pole Mini-Line Parallel	4	MP4FA000	3 Pole (F)	6 Pole (M)	
	6	MP6FA000	3 Pole (F)	8 Pole (M)	
	8	MP8FA000	3 Pole (F)	10 Pole (M)	
3-Pole Mini-Line Series	4	MP4FB000	3 Pole (F)	3 Pole (M)	
	6	MP6FB000	3 Pole (F)	3 Pole (M)	
	8	MP8FB000	3 Pole (F)	3 Pole (M)	
3-Pole Mini-Line with LED Indicators for Power and Signal	4	MP4FC000	3 Pole (F)	7 Pole (M)	
	6	MP6FC000	3 Pole (F)	9 Pole (M)	
	8	MP8FC000	3 Pole (F)	12 Pole (M)	
4-Pole Mini-Line 3 Wire	4	MP4FD000	4 Pole (F)	6 Pole (M)	
	6	MP6FD000	4 Pole (F)	8 Pole (M)	
	8	MP8FD000	4 Pole (F)	10 Pole (M)	
5-Pole Mini-Line for Solenoids	4	MP4FE000	5 Pole (F)	10 Pole (M)	

## PIN ROTATION INPUT RECEPTACLE COLOR CODE

### COLOR CODING CHART (FACE VIEW MALE)




3 Pole	4 Pole	5 Pole	6 Pole	7 Pole	8 Pole	9 Pole	10 Pole	12 Pole
1. Green 2. Black 3. White	1. Black 2. White 3. Red 4. Green	1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue (Style I)	1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	1. Orange 2. Blue 3. Red-Black 4. Green-Black 5. White 6. Red 7. Green 8. White-Black 9. Black	1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Blue-Black 8. Black-White 9. Green 10. Red 11. White 12. Black

# MINI-PLEX FEMALE INPUT PLUG








POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	PART NUMBER	FOR USE WITH
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	6' 12' 20' 25' 30'	5000109-4 5000109-5 5000109-308 5000109-309 5000109-310	MP4FB000 MP6FB000 MP8FB000
6		1. Orange 2. Blue 3. Black 4. White 5. Red 6. Green	600V, 6A	18	6' 12' 20' 25' 30'	5000120-4 5000120-5 5000120-308 5000120-309 5000120-310	MP4FA000 MP4FD000
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	6' 12' 20' 25' 30'	X8988-4 X8988-5 X8988-69 X8988-70 X8988-71	MP4FC000
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	6' 12' 20' 25' 30'	X8989-4 X8989-5 X8989-69 X8989-70 X8989-71	MP6FA000 MP6FD000
9		1. Orange 2. Blue 3. Red-Black 4. Green-Black 5. White 6. Red 7. Green 8. White-Black 9. Black	600V, 7A	16	6' 12' 20' 25' 30'	X8990-4 X8990-5 X8990-69 X8990-70 X8990-71	MP6FC000
10		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	600V, 7A	16	6' 12' 20' 25' 30'	X8991-4 X8991-5 X8991-69 X8991-70 X8991-71	MP8FA000 MP8FD000 MP4FE000
12		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Blue-Black 8. Black-White 9. Green 10. Red 11. White 12. Black	600V, 7A	16	6' 12' 20' 25' 30'	X8992-4 X8992-5 X8992-69 X8992-70 X8992-71	MP8FC000



# MINI-PLEX MALE TO FEMALE OUTPUT EXTENSIONS

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT MALE TO STRAIGHT FEMALE	MALE RIGHT ANGLE TO FEMALE STRAIGHT
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	1.5'	5000109-307	5000109-315
					3'	5000109-25	5000109-316
					6'	5000109-26	5000109-317
					12'	5000109-27	5000109-4088
					15'	5000109-265	5000109-4210
					20'	5000109-312	5000109-4211
					25'	5000109-313	5000109-4212
4		1. Black 2. White 3. Red 4. Green	600V, 10A	16	1.5'	5000110-307	5000110-315
					3'	5000110-25	5000110-316
					6'	5000110-26	5000110-317
					12'	5000110-27	5000110-4097
					15'	5000110-4026	5000110-4096
					20'	5000110-4008	5000110-4098
					25'	5000110-4050	5000110-4099
5		1. Red-White 2. Red-Blue 3. Green 4. Red-Orange 5. Red-Black	600V, 8A	16	1.5'	5000111-307	5000111-315
					3'	5000111-25	5000111-316
					6'	5000111-26	5000111-317
					12'	5000111-27	5000111-4219
					15'	5000111-211	5000111-4220
					20'	5000111-36	5000111-4221
					25'	5000111-4044	5000111-4222
				30'	5000111-4120	5000111-4223	

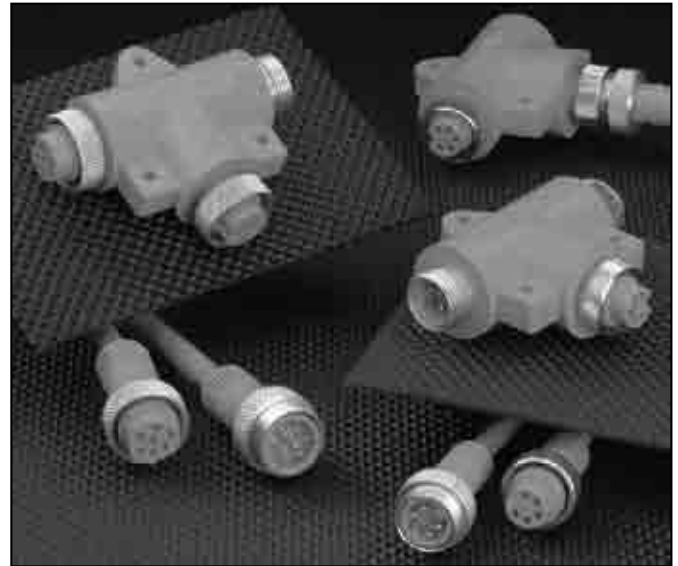
# MINI-PLEX MALE TO FEMALE INPUT EXTENSIONS

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	MALE TO FEMALE EXTENSION	FOR USE WITH
3		1. Green 2. Red-Black 3. Red-White	600V, 13A	16	6' 12' 20' 25' 30'	5000109-26 5000109-27 5000109-312 5000109-313 5000109-314	MP4FB000 MP6FB000 MP8FB000
6		1. White 2. Red 3. Green 4. Orange 5. Black 6. Blue	600V, 6A	18	6' 12' 20' 25' 30'	5000120-26 5000120-27 5000120-312 5000120-313 5000120-314	MP4FA000 MP4FD000
7		1. White-Black 2. Black 3. White 4. Red 5. Orange 6. Blue 7. Green	600V, 7A	16	6' 12' 20' 25' 30'	X8988-34 X8988-35 X8988-73 X8988-74 X8988-75	MP4FC000
8		1. Orange 2. Blue 3. White-Black 4. Black 5. White 6. Red 7. Green 8. Red-Black	600V, 7A	16	6' 12' 20' 25' 30'	X8989-34 X8989-35 X8989-73 X8989-74 X8989-75	MP6FA000 MP6FD000
9		1. Orange 2. Blue 3. Red-Black 4. Green-Black 5. White 6. Red 7. Green 8. White-Black 9. Black	600V, 7A	16	6' 12' 20' 25' 30'	X8990-34 X8990-35 X8990-73 X8990-74 X8990-75	MP6FC000
10		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Red 8. Green 9. Black 10. White	600V, 7A	16	6' 12' 20' 25' 30'	X8991-34 X8991-35 X8991-73 X8991-74 X8991-75	MP8FA000 MP8FD000 MP4FE000
12		1. Orange 2. Blue 3. White-Black 4. Red-Black 5. Green-Black 6. Orange-Black 7. Blue-Black 8. Black-White 9. Green 10. Red 11. White 12. Black	600V, 7A	16	6' 12' 20' 25' 30'	X8992-34 X8992-35 X8992-73 X8992-74 X8992-75	MP8FC000

# NETWORK PRODUCTS

**“THE  
TOUGH LINE  
FOR TOUGH  
JOBS”**

Crouse-Hinds offers a full line of miniature connector products specially designed to meet network physical layer specifications. These products were developed to meet DeviceNet™, SDS™ and Seriplex™ architecture.



## NETWORK CABLE PARAMETERS:

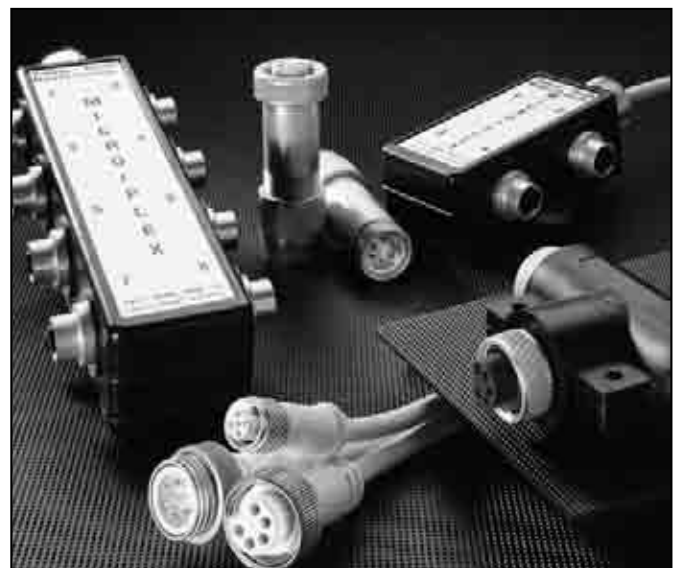
**DeviceNet:** Trunk cable requires gray PVC jacket with 2 shielded pairs (15 AWG - Power, 18 AWG - Data) with 18 AWG drain wire  
Drop cable requires yellow CPE jacket with 2 shielded pairs (22 AWG - Power, 24 AWG - Data) with 22 AWG drain wire

**SDS:** Trunk cable requires PVC jacket with 2 shielded pairs (16 AWG - Power, 22 AWG - Data) with 22 AWG drain wire.  
Drop cable requires PVC jacket with 2 shielded pairs (22 AWG - Power, 22 AWG - Data) with 22 AWG drain wire.

**Seriplex:** Trunk cable requires orange PVC jacket with 4 conductors (two 16 AWG, Two 22 AWG) with 22 AWG drain wire.  
Drop cable requires orange PVC jacket with 4 conductors (Two 18 AWG, Two 22 AWG) with 22 AWG drain wire

## CABLE ASSEMBLY PIN OUT/COLOR CODE (FUNCTION)

PIN #	DeviceNet™	SDS™	Seriplex™
1	Drain (Bus Shield)	Drain (Bus Shield)	Drain (Bus Shield)
2	Red (V+)	Brown (V+)	Red (V+)
3	Black (V-)	Blue (V-)	Black (V-)
4	White (Data +)	Black (Data +)	Blue (Clock)
5	Blue (Data -)	White (Data -)	White (Data)



DeviceNet is a trademark of Allen-Bradley.  
Seri-Plex is a trademark of Square D Company.  
SDS is a trademark of Honeywell Microswitch.

# TECHNICAL DATA NETWORK DROP ASSEMBLIES

## Agency Approvals:

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

## Electrical Data:

Contact Resistance:

≤ 5mΩ

Current Rating:

3 AMPS

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

## Environmental Data:

Protection:

NEMA 6P; IEC IP 68

Temperature Range:

-20°C to +80°C

Corrosion Resistance:

1000 hr. salt spray per MIL STD 202F

High Pressure Water Test:

1200 PSI spray

## Material Data:

Body:

TPE, Yellow

Insert:

PUR, Yellow (Micro-Mini)

Contact:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Diecast Zamak 5 with black epoxy coat

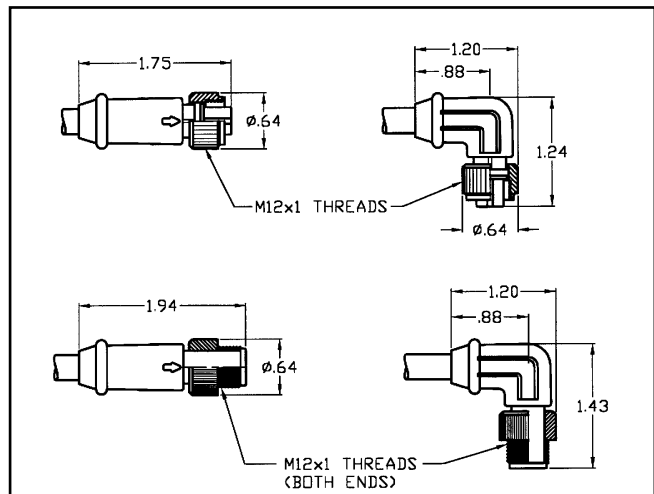
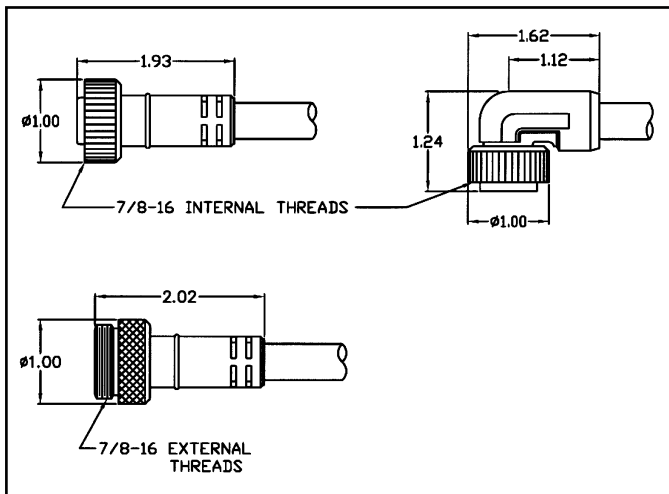
## NETWORK DROP ASSEMBLIES

PIN	DESCRIPTION	LENGTH	DEVICENET	SDS	SERIPLEX
5P	Mini Female	1M	CHDN-CE-C1	CHSDS-CE-C1	CHSPX5-CE-C1
5P	Mini Female	2M	CHDN-CE-C2	CHSDS-CE-C2	CHSPX5-CE-C1
5P	Mini Male In-Line	1M	CHDN-CA-C1	CHSDS-CA-C1	CHSPX5-CA-C1
5P	Mini Male In-Line	2M	CHDN-CA-C2	CHSDS-CA-C2	CHSPX5-CA-C2
5P	Micro Female	1M	CHDN-CG-C1	CHSDS-CG-C1	CHSPX5-CG-C1
5P	Micro Male In-Line	1M	CHDN-CC-C1	CHSDS-CC-C1	CHSPX5-CC-C1
5P	Micro Female-Male In-Line	1M	CHDN-ECG-C1	CHSDS-ECG-C1	CHSPX5-ECG-C1

Note: Special lengths and configurations available — consult factory.

Stainless steel hardware available — consult factory.

## DIMENSIONS



# TECHNICAL DATA NETWORK TRUNK ASSEMBLIES

## Agency Approvals:

UL Recognition: File #E169897  
 CSA Certification: File #LR13963

## Electrical Data:

Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: 8 AMPS  
 Voltage Rating: 300 VAC  
 Dielectric Withstand Voltage: 1600 VAC

## Environmental Data:

Protection Level: NEMA 6P; IEC IP 68  
 Temperature Range:  $-20^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$   
 Corrosion Resistance: 1000 hr. salt spray per MIL STD 202F  
 High Pressure Water Test: 1200 PSI spray

## Material Data:

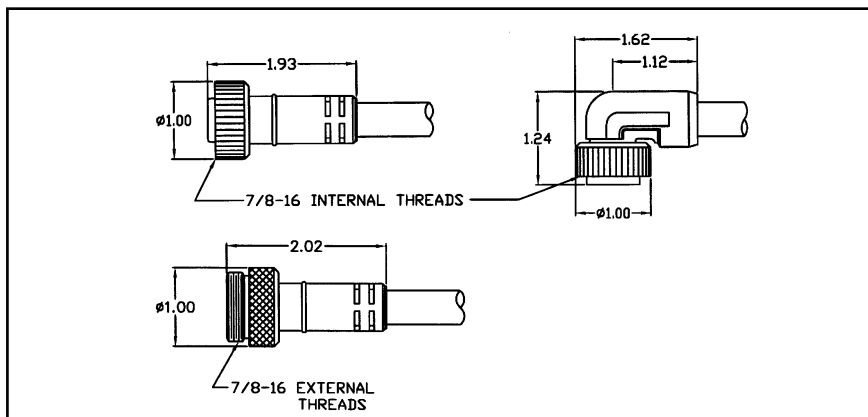
Body: PVC, Black  
 Contact: Machined Brass  
 Contact Plating: 30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
 Coupling Nut: Diecast Zamak 5 with black epoxy coat

## NETWORK TRUNK ASSEMBLIES

PIN	DESCRIPTION	LENGTH	DEVICENET	SDS	SERIPLEX
5P	ML Female	1M	CHDN-CE-T1	CHSDS-CE-T1	CHSPX5-CE-T1
5P	ML Female	2M	CHDN-CE-T2	CHSDS-CE-T2	CHSPX5-CE-T1
5P	ML Male In-Line	1M	CHDN-CA-T1	CHSDS-CA-T1	CHSPX5-CA-T1
5P	ML Male In-Line	2M	CHDN-CA-T2	CHSDS-CA-T2	CHSPX5-CA-T2
5P	ML Female to Male In-Line	1M	CHDN-EAE-T1	CHSDS-EAE-T1	CHSPX5-EAE-T1
5P	ML Female to Male In-Line	2M	CHDN-EAE-T2	CHSDS-EAE-T2	CHSPX5-EAE-T2

Note: Special lengths available upon request — consult factory.  
 Stainless steel hardware available — consult factory.

## DIMENSIONS



# TECHNICAL DATA NETWORK TAPPING TEE

## Agency Approvals:

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

## Electrical Data:

Contact Resistance:

≤ 5mΩ

Current Rating:

8 AMPS

Voltage Rating:

300 VAC

Dielectric Withstand Voltage:

1600 VAC

## Environmental Data:

Protection Level:

NEMA 6P; IEC IP 68

Temperature Range:

-20°C to +105°C

High Pressure Water Test:

1200 PSI spray

## Material Data:

Body:

Santoprene™, Black

Insert:

Santoprene™, Black

Contact:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Diecast Zamak 5 with black epoxy coat

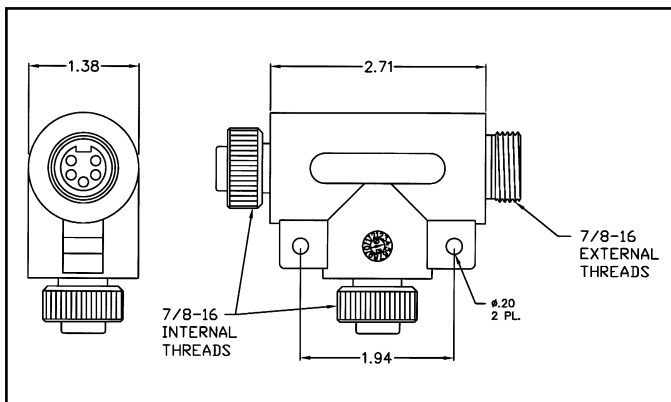
# NETWORK MALE TO FEMALE TO FEMALE TAPPING TEE

PIN	DESCRIPTION		DEVICENET	SDS	SERIPLEX
5P	ML Male-Female-Female	Right Tee	CHDN-TAER-N	CHSDS-TAER-N	CHSPX5-TAER-N
5P	ML Male-Female-Female	Left Tee	CHDN-TAEL-N	CHSDS-TAEL-N	CHSPX5-TAEL-N

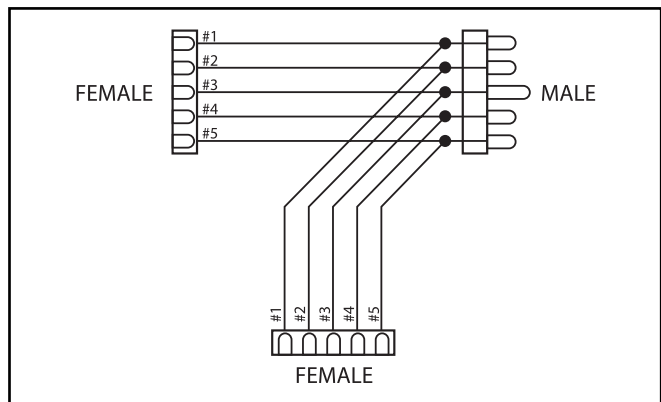
Note: PVC compound available upon request — consult factory.

Stainless steel hardware available — consult factory.

## DIMENSIONS



## WIRING DIAGRAM



Santoprene is a registered trademark of Advanced Elastomer Systems.

**COOPER** Crouse-Hinds



# TECHNICAL DATA NETWORK TERMINATOR ASSEMBLIES

## Agency Approvals:

UL Recognition:

File #E169897

CSA Certification:

File #LR13963

## Electrical Data:

Contact Resistance:

$\leq 5m\Omega$

Voltage Rating:

24 VDC

Load Resistance:

Device Net 121 $\Omega$

Seri-Plex 121 $\Omega$

SDS 120 $\Omega$

## Environmental Data:

Protection Level:

NEMA 6P; IEC IP 68

Temperature Range:

-20°C to +105°C

Corrosion Resistance:

1000 hr. salt spray per MIL STD 202F

High Pressure Water Test:

1200 PSI spray

## Material Data:

Body:

Santoprene™, Black

Contact:

Machined Brass

Contact Plating:

30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel

Coupling Nut:

Diecast Zamak 5 with black epoxy coat

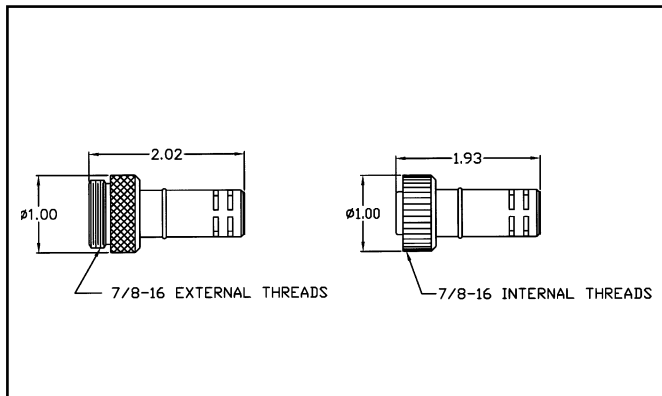
## NETWORK TERMINATOR ASSEMBLIES

PIN	DESCRIPTION	DEVICENET	SDS	SERIPLEX
5P	Mini Male In-Line	CHDN-SA-N	CHSDS-SA-N	CHSPX5-SA-N
5P	Mini Female	CHDN-SE-N	CHSDS-SE-N	CHSPX5-SE-N

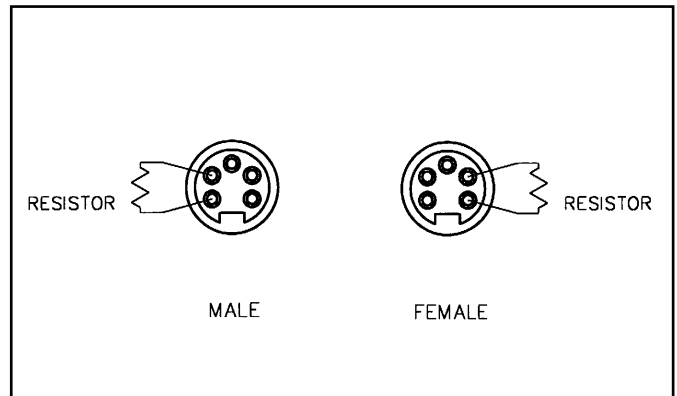
Note: PVC compound available upon request — consult factory.

Stainless steel hardware available — consult factory.

## DIMENSIONS



## WIRING DIAGRAM



# TECHNICAL DATA NETWORK MICRO-PLEX DISTRIBUTION SYSTEM

## Agency Approvals:

UL Recognition: File #E169897  
 CSA Certification: File #LR13963

## Electrical Data:

Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: 8 AMPS  
 Voltage Rating: 300 VAC

## Environmental Data:

Protection Level: NEMA 6P; IEC IP 68  
 Temperature Range:  $-20^{\circ}C$  to  $+105^{\circ}C$   
 High Pressure Water Test: 1200 PSI spray

## Material Data:

Body: PET, Black  
 Insert: TPE, Black  
 Contact: Machined Brass  
 Contact Plating: 30 micro-inches of 24 karat Gold over 50 micro-inches of Nickel  
 Receptacle Shell: Machined Aluminum with anodized finish

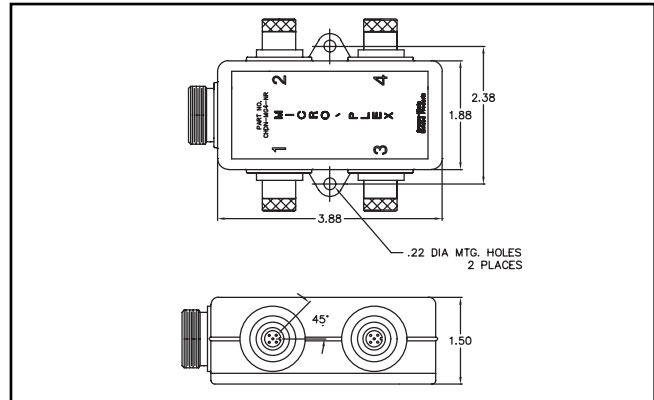
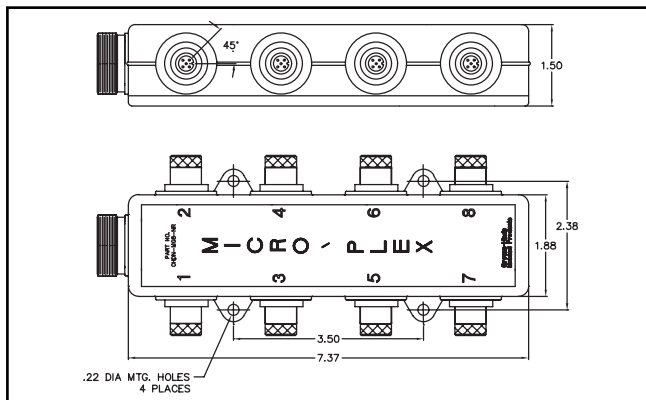
## NETWORK MICRO-PLEX ASSEMBLIES

PORT	DESCRIPTION	DEVICENET	SDS	SERIPLEX
4 Port	Micro-Plex with 2M Drop	CHDN-MG4-C2	CHSDS-MG4-C2	CHSPX5-MG4-C2
8 Port	Micro-Plex with 2M Drop	CHDN-MG8-C2	CHSDS-MG8-C2	CHSPX5-MG8-C2
8 Port	Micro-Plex with Male Recept.	CHDN-MG8-NR	CHSDS-MG8-NR	CHSPX5-MG8-NR

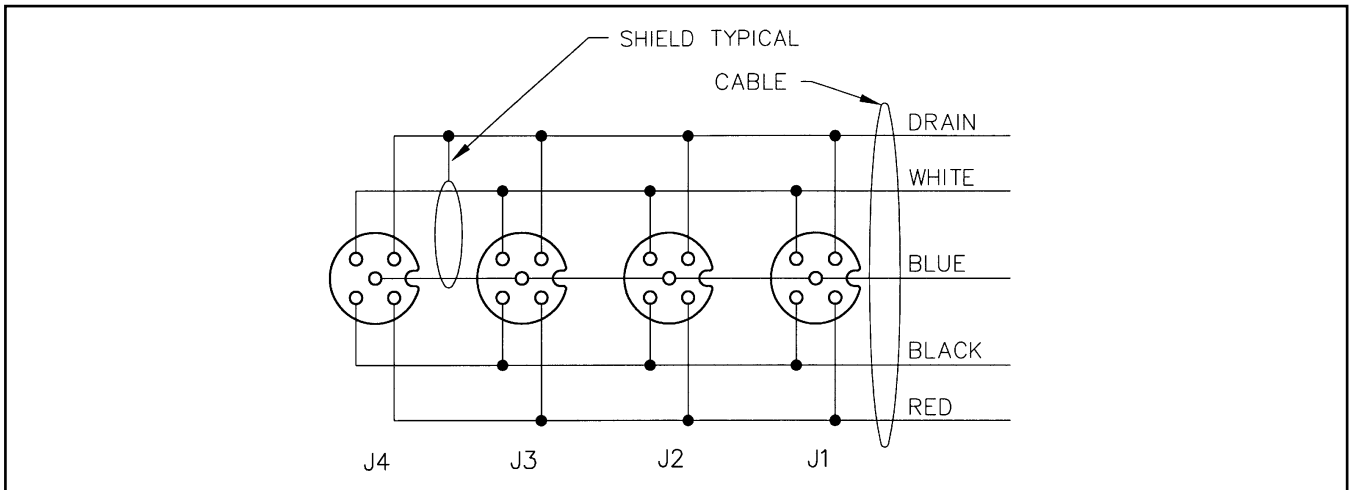
Note: Stainless steel hardware available — consult factory.

## DIMENSIONS

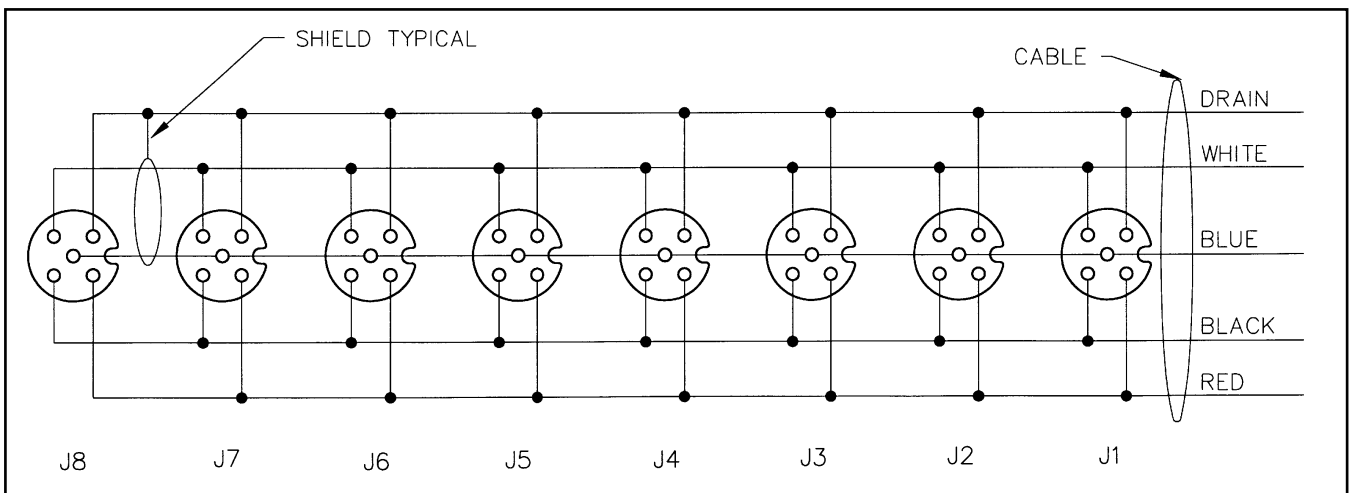
Note: see page 192



## WIRING DIAGRAM NETWORK MICRO-PLEX DISTRIBUTION SYSTEM (4 PORT)



## WIRING DIAGRAM NETWORK MICRO-PLEX DISTRIBUTION SYSTEM (8 PORT)



# NETWORK CUSTOM ORDERING INFORMATION

- Product part number created by combination of feature identifiers. (See matrix below.)
- Consult factory for price and availability.

**Example #1: CHDN-EAG-C2**

Mini-Line male in-line straight plug to Micro-Mini female straight plug on 2 meters of CPE drop cable.

**Example #2: CHDN-MG8-NR**

Micro-Plex with 8 female output ports with 1 male Mini-Line input receptacle (no cable).

CH NETWORK (PREFIX)	PRODUCT TYPE	PRODUCT CONFIGURATION	PORT/KEYWAY DESIGN	DASH (-)	CABLE TYPE	CABLE LENGTH	OPTIONS
	POSITION #1	POSITION #2 & #3	POSITION #4		POSITION #5	POSITION #6	POSITION #7
DN	A = Attachable (Trunk)	A = Mini-Line Male Straight	4 = 4 Port	-	C = CPE (Drop)	1 = 1 Meter	G = Gray Molding
	B = Attachable (Drop)	B = Mini-Line Male-In Line Right Angle	6 = 6 Port		D = PVC (Drop) Gray		X = Stainless Steel
SDS	C = Connector	C = Micro-Mini Male Straight	8 = 8 Port		F = Hi-Flex (Trunk)		
	D = Dustcap	D = Micro-Mini Male Right Angle	L = Left Key		H = Hi-Flex (Drop)		
SPX	E = Extension	E = Mini-Line Female Straight	R = Right Key		N = N/A	2 = 2 Meter	
	M = Micro-Plex	F = Mini-Line Female Right Angle			P = PVC (Drop)	3 = 3 Meter	
	N = Mini-Plex				T = PVC (Trunk)	R = Receptacle	
	S = Seal (Terminator)	G = Micro-Mini Female Straight					
	T = Tapping Tee	H = Micro-Mini Female Right Angle					

- Notes: 1. DeviceNet products utilize 5 pole configuration only.  
 2. Extension part number require both ends identified, per above matrix (#2 & #3).

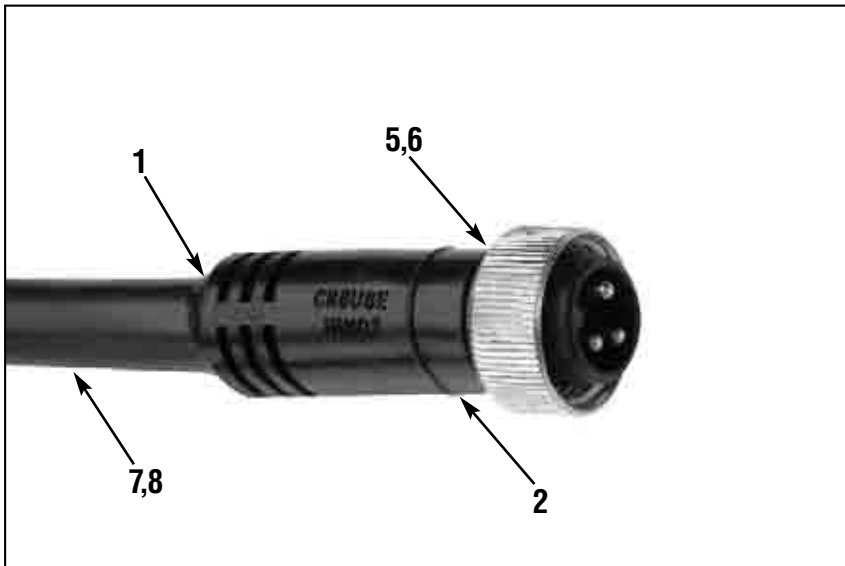
DN = DeviceNet Networks  
 SDS = SDS Networks  
 SPX = Seri-Plex Networks

# SUREMATE CONNECTORS

**“THE  
TOUGH LINE  
FOR TOUGH  
JOBS”**

Crouse-Hinds Suremate connectors are designed to provide dependable and economical service. They are molded of high-quality thermoplastic allowing a high power-to-size ratio, lightweight connector. The one-piece molded-to-cable design and double-face seal are unaffected by water, coolants or condensation.

Safe, two-way polarization thru an eccentric pin pattern and keyway guard against mismating. In addition, keyways for the 2, 3 and 4 pole connectors are different from each other. Suremate connectors for 2, 3 and 4 pole configurations are available in various lengths to suit specific application needs.



## FEATURES & BENEFITS

- 1 **Connector-to-cable molded junction** securely bonds for excellent reliability.
- 2 **Indicating arrow** for easy identification and proper keyway alignment.
- 3 **Superior female contact** design with steel sleeve to maintain contact withdrawal force.
- 4 **Gold plated female contact** for superior conductivity and chemical resistance.
- 5 **Vibration-resistant ratchet coupler** design prevents loosening in sever, high-vibration applications.
- 6 **Epoxy-coated coupler** that passes 1000-hour salt-spray test per MIL-STD-202F for exceptional corrosion resistance.
- 7 **Easy stripping PVC jacketed cable** with “fillerless” design allows fast stripping with simple hand tools.  
**Cable options** available for industrial applications with the following types:
  - **STOOW cable** with PVC jacket having oil resistant jacket and conductors
  - **SEOW “TPE” cable** with oil resistant jacket/conductors having elastomer jacket.
- 8 **Optional #12 AWG cable** available for increased ampacity rating up to 25 amps.
- 9 Every unit is **100% electrically tested** using state of the art automated test equipment.

# SPECIFICATIONS SURE-MATE PLUGS (2-4 POLE)

- Male and Female Plugs
- 14 AWG Standard Color Code
- 600V STOOW Cable
- Black PVC Molding
- Epoxy Coated Zinc Diecast Hardware
- Vibration Resistant Ratchet Design



## TECHNICAL DATA

### Agency Approvals



File #E169897

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
Current Rating: See chart with part number detail  
Voltage Rating: 600 VAC  
Dielectric Withstand Voltage: 2200 VAC

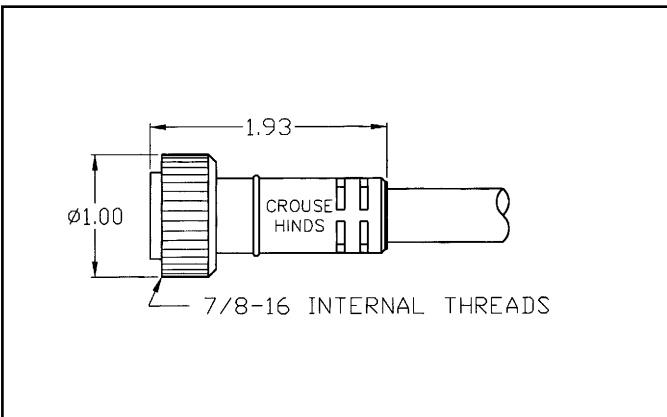
### Environmental Data

Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68  
Temperature Range:  $-20^{\circ}C$  to  $+105^{\circ}C$   
Corrosion Resistance: 1000 hr. salt spray per MIL-STD-202F

### Material Data



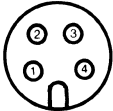
Body: Black, PVC  
Cable: Black, STOOW  
Contacts: Machined Brass  
Female Contact Plating: Gold plating  
Coupling Nut: Diecast Zamak 5 with black epoxy coat

## DIMENSIONS

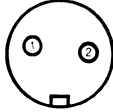

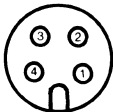




## **SURE-MATE FEMALE PLUG** WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

<b>POLES</b>	<b>FACE VIEW FEMALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>CABLE LENGTH</b>	<b>STRAIGHT</b>
2		1. White 2. Black	600V, 18A	14	6' 12'	5000101-17 5000101-18
3		1. Green 2. Black 3. White	600V, 18A	14	6' 12'	5000102-17 5000102-18
4		1. Black 2. White 3. Red 4. Green	600V, 15A	14	6' 12'	5000104-17 5000104-18

## **SURE-MATE MALE PLUG** WITH **EPOXY COATED ZINC DIECAST** COUPLING NUT

<b>POLES</b>	<b>FACE VIEW MALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>CABLE LENGTH</b>	<b>STRAIGHT</b>
2		1. White 2. Black	600V, 18A	14	6' 12'	5000101-19 5000101-20
3		1. Green 2. Black 3. White	600V, 18A	14	6' 12'	5000102-19 5000102-20
4		1. Black 2. White 3. Red 4. Green	600V, 15A	14	6' 12'	5000104-19 5000104-20

Note: Special lengths available upon request — consult factory.  
 Nylon and stainless steel hardware available upon request — consult factory.  
 SEOW cable available upon request — consult factory.  
 Optional 12 AWG available upon request — consult factory.

# SPECIFICATIONS SURE-MATE RECEPTACLES (2-4 POLE)

- Male and Female Receptacles
- 14 AWG Standard Color Code
- Single Conductor PVC Jacket
- Zinc Diecast Hardware



## TECHNICAL DATA

### Agency Approvals



File #E 169897

### Electrical Data

Contact Resistance:	$\leq 5m\Omega$
Current Rating:	See chart with part number detail
Voltage Rating:	600 VAC
Dielectric Withstand Voltage:	2200 VAC

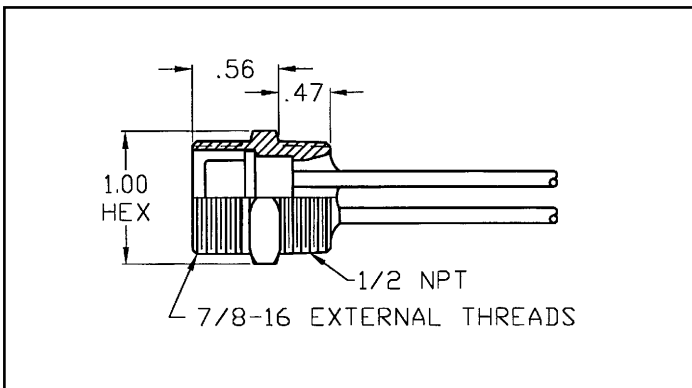
### Environmental Data

Protection:	NEMA 1, 3, 4, 6P and 13; IEC IP 68
Temperature Range:	-20°C to +105°C
Corrosion Resistance:	1000 hr. salt spray per MIL-STD-202F



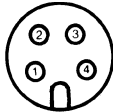
### Material Data

Insert:	Black, santoprene
Pigtail Leads:	MTW PVC jacket
Contacts:	Machined Brass
Female Contact Plating:	Gold plating
Receptacle Shell:	Diecast Zamak 5 with zinc plate

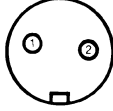

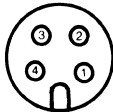
## DIMENSIONS



## **SURE-MATE FEMALE RECEPTACLES** WITH **ZINC DIECAST** RECEPTACLE SHELL

<b>POLES</b>	<b>FACE VIEW FEMALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>LEAD LENGTH</b>	<b>PART NUMBER</b>
2		1. White 2. Black	600V, 18A	14	10"	5000101-21
3		1. Green 2. Black 3. White	600V, 18A	14	10"	5000102-21
4		1. Black 2. White 3. Red 4. Green	300V, 15A	14	10"	5000104-21

## **SURE-MATE MALE RECEPTACLES** WITH **ZINC DIECAST** RECEPTACLE SHELL

<b>POLES</b>	<b>FACE VIEW MALE</b>	<b>COLOR CODE</b>	<b>RATING</b>	<b>AWG</b>	<b>LEAD LENGTH</b>	<b>PART NUMBER</b>
2		1. White 2. Black	600V, 18A	14	10"	5000101-22
3		1. Green 2. Black 3. White	600V, 18A	14	10"	5000102-22
4		1. Black 2. White 3. Red 4. Green	300V, 15A	14	10"	5000104-22

Note: Special lead lengths available upon request — consult factory.  
 Nylon and stainless steel hardware available upon request — consult factory.  
 Optional 12 AWG available upon request — consult factory.

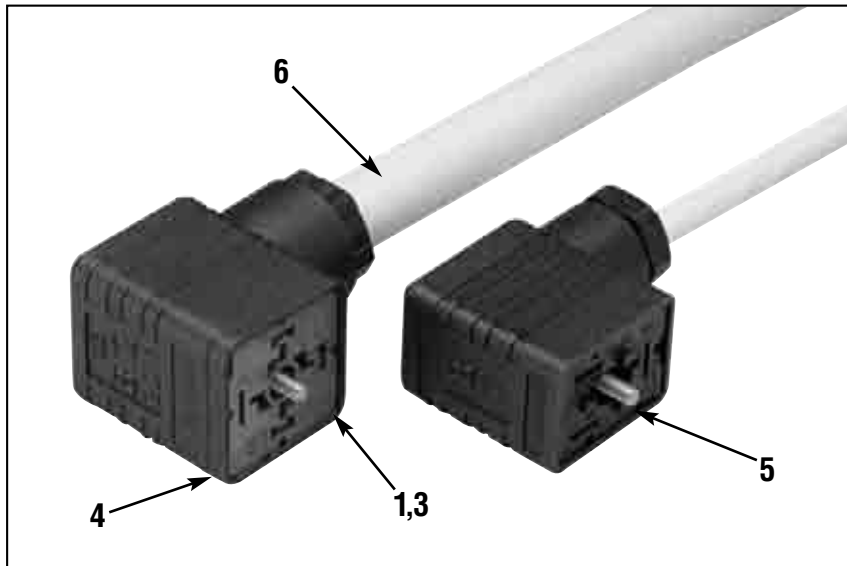


# DIN-43650 VALVE CONNECTORS

**“THE  
TOUGH LINE  
FOR TOUGH  
JOBS”**

Crouse-Hinds Valve connectors are used with hydraulic, pneumatic and solenoid valves for electrical connection to motors, pressure switches and pumps. Standard configurations for DIN-43650 Form A, Form B and Form C and Industry Standard designs for Form B and Form C are available.

Our valve configurations have optional Mini-Line and Micro-Mini connectors available, which can be attached to the opposite end for improved “quick-disconnect” operations. Hardware and cable options for the Mini-Line and Micro-Mini allow improved product design for your specific application needs.



## FEATURES & BENEFITS

- 1 **Wide variety of internal circuits** available with LED's and surge suppressors.
- 2 **Translucent housing** for DIN-43650 Form A, Form B and Industry Standard “LED” configuration allows 360° visibility.
- 3 **High reliability, self-cleaning female contact** design with tin plating.
- 4 **Environmental protection** rating of IP 65 for dust proof and splash proof applications.
- 5 **Vibration-proof connector locking** utilizing captive screw or knurled screw option available.
- 6 **Easy stripping PVC “high flex” jacketed cable** with “fillerless” design allows fast stripping with simple hand tools.
- 7 **Hardware options** for Mini-Line and Micro-Mini connector attachments: (Diecast Zamak, nylon and stainless steel coupling nuts available).
- 8 Every unit is **100% electrically tested** using state of the art automated test equipment.

# SPECIFICATIONS DIN 43650 FORM-A 18MM VALVE CONNECTORS

- Field Attachable Version
- LED and/or Varistor Circuitry
- Translucent Housing with 360° LED Visibility
- 18 AWG, 300V, 105°C Cable
- 0° and 180°, Position Options
- Cable Assemblies With or Without Mini or Micro Plugs
- Self Cleaning Contacts



## TECHNICAL DATA

### Agency Approvals

UL Recognized  
CSA Certified  
VDE Approved

### Electrical Data

Contact Resistance:  $\leq 5m\Omega$   
Current Rating: See chart with part number detail  
Voltage Rating: See chart with part number detail

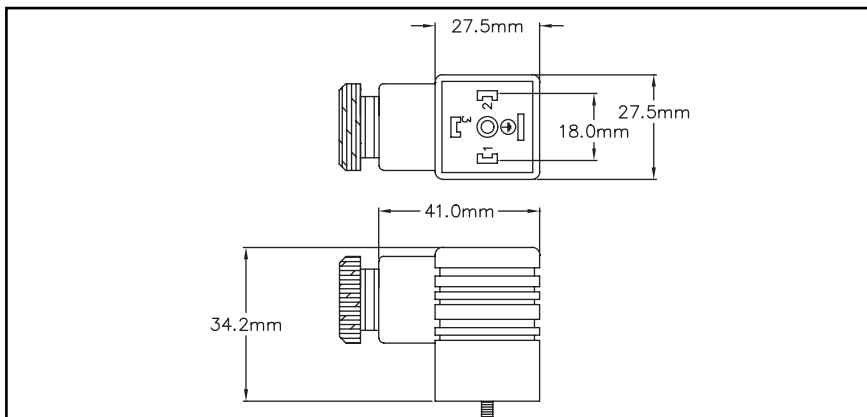
### Environmental Data

Protection: IEC IP 65  
Temperature Range:  
Attachable:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$   
With cable:  $-20^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$

### Material Data

Housing: Black or translucent nylon  
Insert: Black or brown nylon  
Cable: Black, AWM UL style 2661, PVC jacket  
Female Contact: Copper alloy  
Contact Plating: Tin

## DIMENSIONS





# DIN 43650 FORM-A 18MM FIELD ATTACHABLE

POLES	RATING	AWG	CABLE DIA. RANGE	WITH LED AND VARISTOR	WITHOUT LED OR VARISTOR
3	24V AC/DC, 8A	14-18	.180-.275	V1D1B10	
	24V AC/DC, 8A	14-18	.235-.355	V1B1B10	
	120V AC/DC, 8A	14-18	.180-.275	V1D2B10	
	120V AC/DC, 8A	14-18	.235-.355	V1B2B10	
	250V AC/DC, 8A	14-18	.180-.275		V1C3A10
	250V AC/DC, 8A	14-18	.235-.355		V1A3A10

# DIN 43650 FORM-A 18MM WITH AWM CABLE

POLES	COLOR CODE	RATING	AWG	WITH LED AND VARISTOR	WITHOUT LED OR VARISTOR
3	Brown	24V AC/DC, 8A	18	V1B1B10AMxxx	
	Blue	120V AC/DC, 8A		V1B2B10AMxxx	
	Green/Yellow	250V AC/DC, 8A			V1A3A10AMxxx

# DIN 43650 FORM-A 18MM TO MINI OR MICRO MALE EXTENSIONS

POLES	COLOR CODE	RATING	AWG	WITH LED AND VARISTOR	WITHOUT LED OR VARISTOR
3	Brown	24V AC/DC, 8A	18	V1B1B10AMxxx**	
	Blue	120V AC/DC, 8A		V1B2B10AMxxx**	
	Green/Yellow	250V AC/DC, 8A			V1A3A10AMxxx**

Note: xxx = cable length in meters. Last digit represents tenths of a meter.

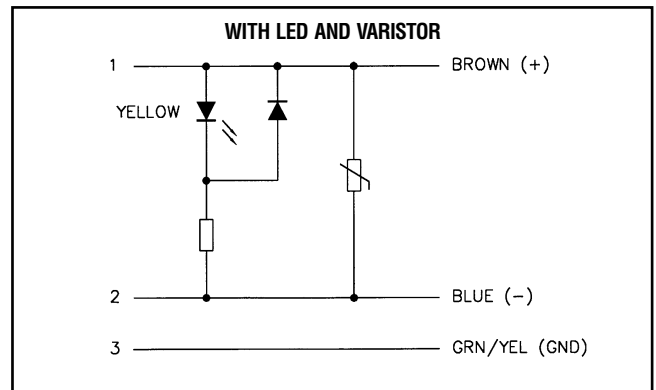
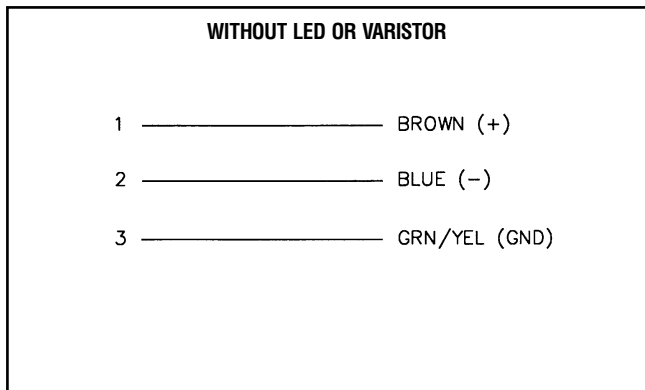
\*\* = connector code. Choose from:

- A1 = Straight Male Mini
- A2 = Right Angle Male Mini
- B1 = Straight Male-In-Line Micro
- B2 = Right Angle Male-In-Line Micro

Example: V1B1B10AM125A1 = 24V plug with LED & Varistor on 12.5 meters of cable with straight male mini plug at other end

All part numbers have ground contact opposite cable entrance. For other ground configurations and circuitry options consult factory.

## WIRING DIAGRAMS



# SPECIFICATIONS DIN 43650 FORM-B VALVE CONNECTORS/INDUSTRY STANDARD

- Field Attachable Version
- LED and/or Varistor Circuitry
- Translucent Housing with 360° LED Visibility
- 18 AWG, 300V, 105°C Cable
- Cable Assemblies With or Without Mini or Micro Plugs
- Self Cleaning Contacts



## TECHNICAL DATA

### Agency Approvals

UL Recognized  
CSA Certified  
VDE Approved

### Electrical Data

Contact Resistance:  
Current Rating:  
Voltage Rating:

$\leq 5m\Omega$   
See chart with part number detail  
See chart with part number detail

### Environmental Data

Protection:  
Temperature Range:

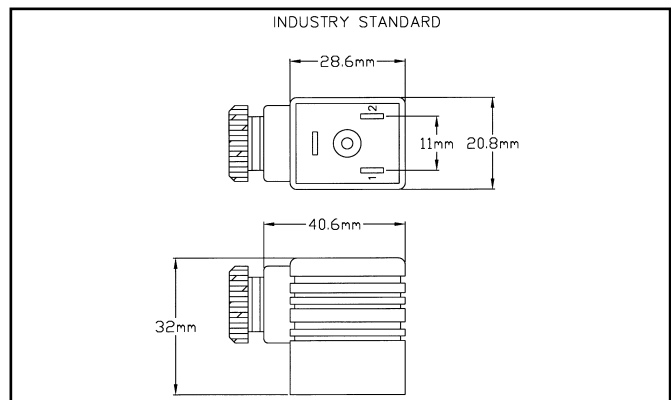
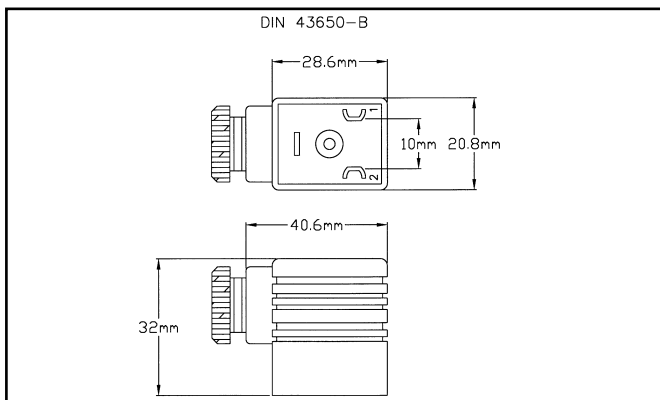
IEC IP 65  
Attachable: -40°C to +125°C  
With cable: -20°C to +105°C

### Material Data

Housing:  
Insert:  
Cable:  
Female Contact:  
Contact Plating:

Black or translucent nylon  
Black or brown nylon  
Black, AWM UL style 2661, PVC jacket  
Copper alloy  
Tin

## DIMENSIONS



# DIN 43650 FORM-B/INDUSTRY STANDARD FIELD ATTACHABLE

POLES	RATING	AWG	CABLE DIA. RANGE	IND. STD. 11MM W/LED & VARISTOR	IND. STD. 11MM W/O LED OR VARISTOR	DIN 43650 10MM W/LED & VARISTOR	DIN 43650 10MM W/O LED OR VARISTOR
3	24V AC/DC, 8A 120V AC/DC, 8A 250V AC/DC, 8A	14-18	.180-.275	V2D1B10 V2D2B10	V2C3A10	V3D1B10 V3D2B10	V3C3A10

# DIN 43650 FORM-B/INDUSTRY STANDARD WITH AWM CABLE

POLES	COLOR CODE	RATING	AWG	IND. STD. 11MM W/LED & VARISTOR	IND. STD. 11MM W/O LED OR VARISTOR	DIN 43650 10MM W/LED & VARISTOR	DIN 43650 10MM W/O LED OR VARISTOR
3	Brown Blue Green/Yellow	24V AC/DC, 8A 120V AC/DC, 8A 250V AC/DC, 8A	18	V2D1B10AMxxx V2D2B10AMxxx	V2C3A10AMxxx	V3D1B10AMxxx V3D2B10AMxxx	V3C3A10AMxxx

# DIN 43650 FORM-B/INDUSTRY STANDARD TO MINI OR MICRO MALE EXTENSIONS

POLES	COLOR CODE	RATING	AWG	IND. STD. 11MM W/LED & VARISTOR	IND. STD. 11MM W/O LED OR VARISTOR	DIN 43650 10MM W/LED & VARISTOR	DIN 43650 10MM W/O LED OR VARISTOR
3	Brown Blue Green/Yellow	24V AC/DC, 8A 120V AC/DC, 8A 250V AC/DC, 8A	18	V2D1B10AMxxx** V2D2B10AMxxx**	V2C3A10AMxxx**	V3D1B10AMxxx** V3D2B10AMxxx**	V3C3A10AMxxx**

Note: xxx = cable length in meters. Last digit represents tenths of a meter.

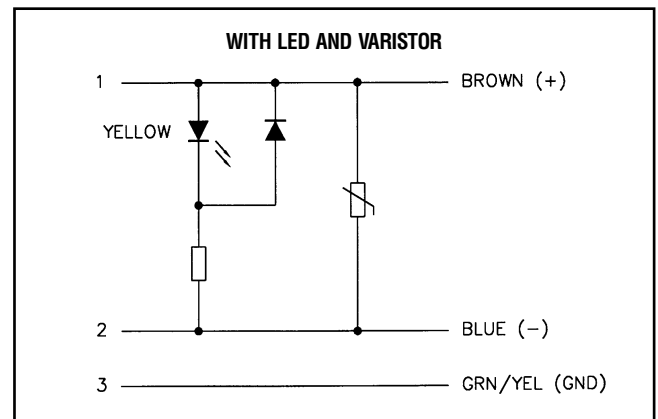
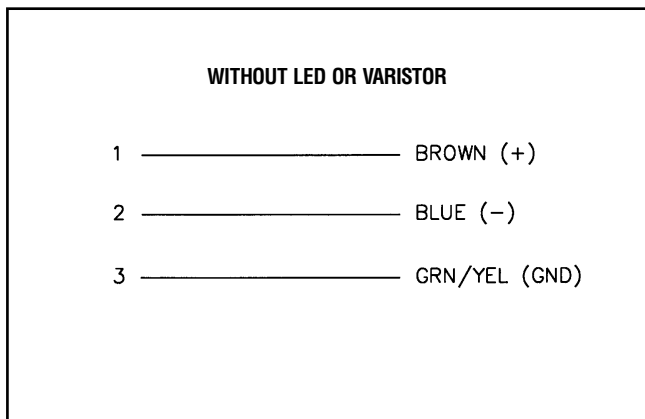
\*\* = connector code. Choose from:

- A1 = Straight Male Mini
- A2 = Right Angle Male Mini
- B1 = Straight Male-In-Line Micro
- B2 = Right Angle Male-In-Line Micro

Example: V2D1B10AM125A1 = 11mm plug with 24V LED & Varistor on 12.5 meters of cable with straight male mini plug at other end

For other circuitry options consult factory.

## WIRING DIAGRAMS



# SPECIFICATIONS DIN 43650 FORM-C/INDUSTRY STANDARD VALVE CONNECTORS

- Field Attachable Version
- 18 AWG, 300V, 105°C Cable
- 0°, 180°, and Dual Ground Position Options
- Cable Assemblies With or Without Mini or Micro Plugs
- Self Cleaning Contacts



## TECHNICAL DATA

### Agency Approvals

UL Recognized  
CSA Certified  
VDE Approved

### Electrical Data

Contact Resistance:  
Current Rating:  
Voltage Rating:

$\leq 5m\Omega$   
See chart with part number detail  
See chart with part number detail

### Environmental Data

Protection:  
Temperature Range:

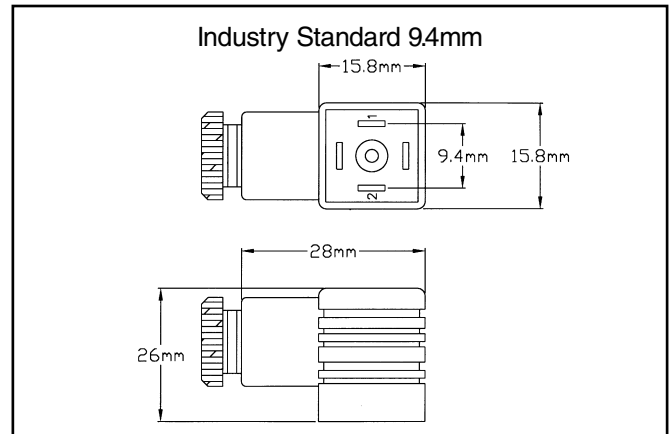
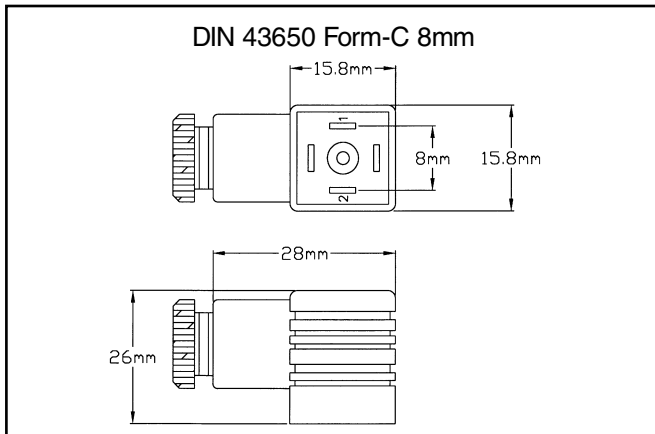
IEC IP 65  
Attachable: -40°C to +125°C  
With cable: -20°C to +105°C

### Material Data

Housing:  
Insert:  
Cable:  
Female Contact:  
Contact Plating:

Black Nylon  
Black Nylon  
Black, AWM UL style 2661, PVC jacket  
Copper alloy  
Tin

## DIMENSIONS



## DIN 43650 FORM-C/INDUSTRY STANDARD FIELD ATTACHABLE

POLES	RATING	AWG	CABLE DIA. RANGE	DIN 43650 8MM	INDUSTRY STANDARD 9.4MM
3	250V AC/DC, 8A	18	.135-.235	V5E3A10	V4E3A10

## DIN 43650 FORM-C/INDUSTRY STANDARD WITH AWM CABLE

POLES	COLOR CODE	RATING	AWG	DIN 43650 8MM	INDUSTRY STANDARD 9.4MM
3	Brown Blue Green/Yellow	250V AC/DC, 8A	18	V5E3A10AMxxx	V4E3A10AMxxx

## DIN 43650 FORM-C/INDUSTRY STANDARD TO MINI OR MICRO MALE EXTENSIONS

POLES	COLOR CODE	RATING	AWG	DIN 43650 8MM	INDUSTRY STANDARD 9.4MM
3	Brown Blue Green/Yellow	250V AC/DC, 8A	18	V5E3A10AMxxx**	V4E3A10AMxxx**

Note: xxx = cable length in meters. Last digit represents tenths of a meter.

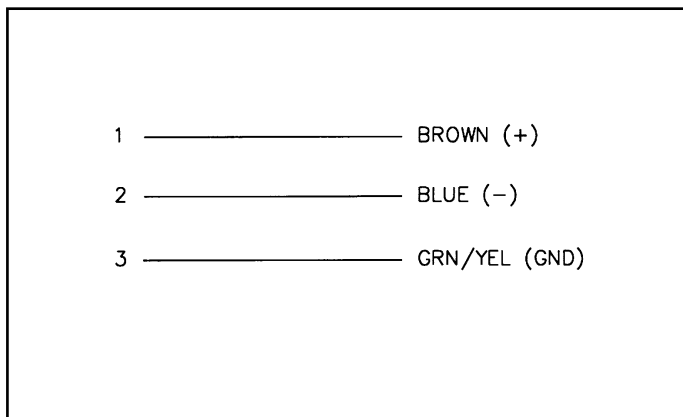
\*\* = connector code. Choose from:

- A1 = Straight Male Mini
- A2 = Right Angle Male Mini
- B1 = Straight Male-In-Line Micro
- B2 = Right Angle Male-In-Line Micro

Example: V4E3C10AM125B1 = 9.4mm plug on 12.5 meters of cable  
with straight male-in-line micro plug at other end

For other circuitry options consult factory.

## WIRING DIAGRAM



# CUSTOMIZATION



Crouse-Hinds Molded Products offers many products that are not shown in this catalog. We specialize in custom products for OEM applications designed specifically to their unique requirements.



We have a staff of experienced design engineers located at the factory that utilize the latest in technology, including computer-aided design and modeling. This allows us to quickly respond to requests for product extensions or variations of current products.

We can also design a new connector for special requirements. A capable staff of experienced tool and model makers is also located on-site for quick turn around of new products.



When it comes to responsiveness, quick turn-around of prototypes and supplying products precisely to your specifications, Crouse-Hinds Molded Products is the leader in the connector industry.





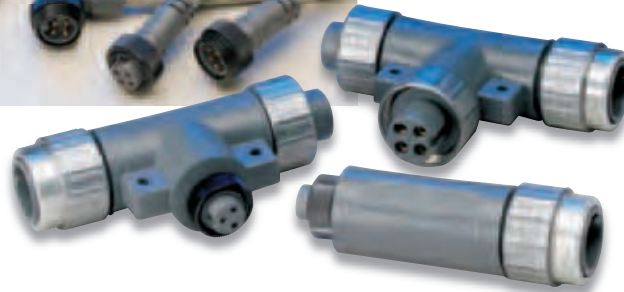
Molded Products

# SOFTPower™ CONNECTOR

*SOFTPower simplifies Industrial Machinery wiring installation and conforms to NFPA-79 Requirements*



*Specifically designed to provide NFPA-79 compliant components while reducing labor and material costs.*



SOFTPower provides factory prewired molded-to-cable connectors that provide portable and modular power for industrial machinery. Recent changes to the NFPA-79 Electrical Standard for Industrial Machinery allow for the use of molded connectors with cable that meets the crush and impact resistance of type (MC) metal clad cable. SOFTPower is ideally designed for industrial machinery systems, offering NFPA compliant components that provide labor and material savings.

- Dual Rated TC/STOOW cable. Simply use the pre-wired SOFTPower cable assemblies in lieu of conduit and eliminate the need for raceways or cable trays.
- Dual rated cable provides crush and impact performance of type (MC) metal clad cable. Flexible PVC cable provides additional adaptability, which eases installation without sacrificing safety.
- Factory molded-to-cable connectors provide quick connect and disconnect capabilities. Modular components allow for easy expansion and reconfiguration of systems without the need for re-wiring. Eliminates the need for multiple cable assemblies—reducing installation time, design time and special tools.
- Labor saving installation and factory tested connectors eliminate mis-wiring in the field.
- Environmentally sealed connectors prevent the ingress of dust, water and other contaminants reducing maintenance activities and downtime.
- UL recognized and CSA qualified connectors are designed for use in the U.S. and Canada.

# SOFTPower™ CONNECTOR

## TRUNK/FEEDER ASSEMBLIES

Available in 3- and 4-Pole Change-Out connector assemblies. Each connector is molded to dual rated TC/STOOW, 10AWG cable for applications up to 30 amps.



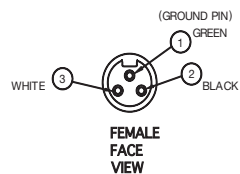
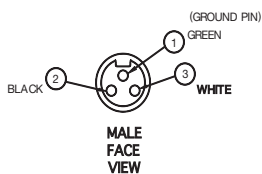
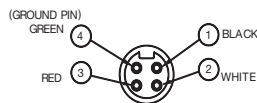
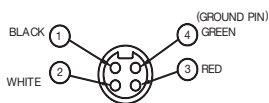
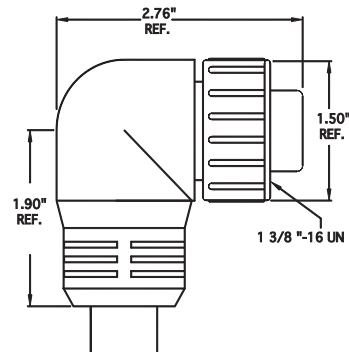
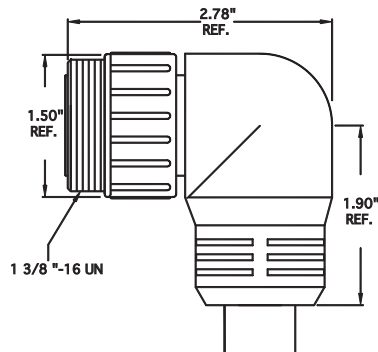
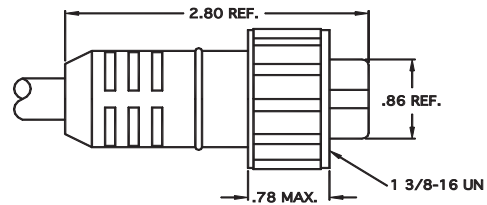
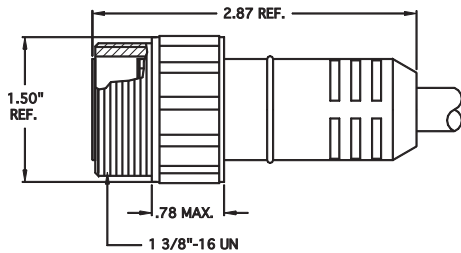
SINGLE ENDED CORDS	AMPS		STRAIGHT	90°	*SEE BELOW FOR CABLE LENGTH
3-Pole	30A	MALE	CA3B6T06CxxxM	CA3E6T06CxxxM	
3-Pole	30A	FEMALE	CA3C6T06CxxxM	CA3F6T06CxxxM	
4-Pole	25A	MALE	CA4B6T02CxxxM	CA4E6T02CxxxM	
4-Pole	25A	FEMALE	CA4C6T02CxxxM	CA4F6T02CxxxM	

DOUBLE ENDED CORDS	AMPS	FEMALE STRAIGHT/ MALE STRAIGHT	FEMALE 90°/ MALE STRAIGHT	FEMALE STRAIGHT/ MALE 90°	FEMALE 90°/ MALE 90°
3-Pole	30A	CA3R6T06CxxxM	CA3T6T06CxxxM	CA3H6T06CxxxM	CA3K6T06CxxxM
4-Pole	25A	CA4R6T02CxxxM	CA4T6T02CxxxM	CA4H6T02CxxxM	CA4K6T02CxxxM

\*Specify Cable Assembly Length xxx = 010 = 1M, 020 = 2M, etc.

Standard Lengths are 1 through 6M, 10M, 15M, 20M, & 30M. Consult factory for special lengths



**VOLTS:** 600  
**AMPERAGE:** 3P 30A  
 4P 25A

**CABLE:** Gray PVC, Dual Rated TC/STOOW, E.R Open Wiring, 10AWG, O.D. .685 + .010 10/3C .730 + .010 10/4C

**CONNECTOR:** Gray PVC  
**INSERT:** Gray PVC  
**COUPLER:** Die cast zinc  
**CONTACTS:** Brass alloy

## DROP / BRANCH ASSEMBLIES

Available in 3- and 4-Pole Mini-Line connector assemblies. Each connector is molded to dual rated TC/STOOW, 14 or 16AWG cable for applications up to 18 amps.

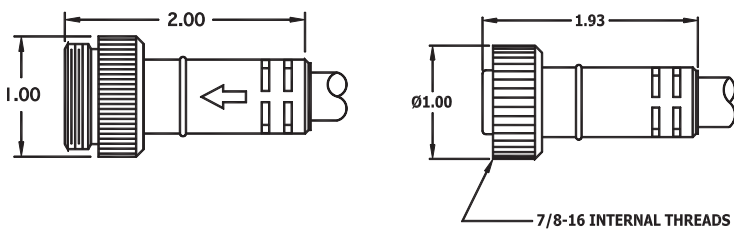


SINGLE ENDED CORDS	AMPS / AWG		STRAIGHT	90°	*SEE BELOW FOR CABLE LENGTH
3-Pole	18A 14AWG	MALE	ML3B5T24CxxxM	ML3E5T24CxxxM	
	18A 14AWG	FEMALE	ML3C5T24CxxxM	ML3F5T24CxxxM	
3-Pole	13A 16AWG	MALE	ML3B4T04CxxxM	ML3E4T04CxxxM	
	13A 16AWG	FEMALE	ML3C4T04CxxxM	ML3F4T04CxxxM	
4-Pole	15A 14AWG	MALE	ML4B5T25CxxxM	ML4E5T25CxxxM	
	15A 14AWG	FEMALE	ML4C5T25CxxxM	ML4F5T25CxxxM	
4-Pole	10A 16AWG	MALE	ML4B4T01CxxxM	ML4E4T01CxxxM	
	10A 16AWG	FEMALE	ML4C4T01CxxxM	ML4F4T01CxxxM	

DOUBLE ENDED CORDS	AMPS	FEMALE STRAIGHT/ MALE STRAIGHT	FEMALE 90°/ MALE STRAIGHT	FEMALE STRAIGHT/ MALE 90°	FEMALE 90°/ MALE 90°
3-Pole	18A 14AWG	ML3R5T24CxxxM	ML3T5T24CxxxM	ML3H5T24CxxxM	ML3K5T24CxxxM
	13A 16AWG	ML3R4T04CxxxM	ML3T4T04CxxxM	ML3H4T04CxxxM	ML3K4T04CxxxM
4-Pole	15A 14AWG	ML4R5T25CxxxM	ML4T5T25CxxxM	ML4H5T25CxxxM	ML4K5T25CxxxM
	10A 16AWG	ML4R4T01CxxxM	ML4T4T01CxxxM	ML4H4T01CxxxM	ML4K4T01CxxxM

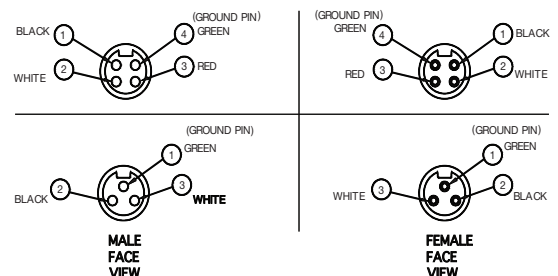
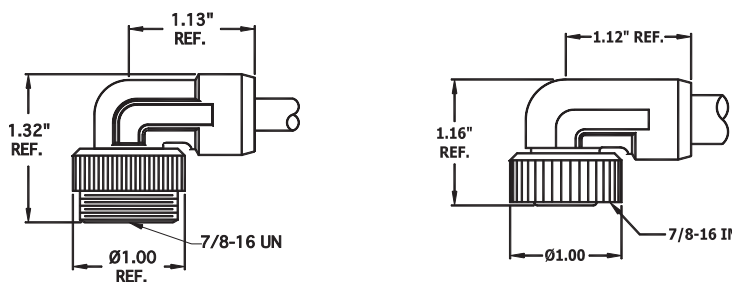
\*Specify Cable Assembly Length xxx = 010 = 1M, 020 = 2M, etc.  
Standard Lengths are 1 through 6M, 10M, 15M, 20M, & 30M. Consult factory for special lengths



**VOLTS:** 600  
**AMPERAGE:** 3P 13A 16AWG, 18A 14AWG  
4P 10A 16AWG, 15A 14AWG

**CABLE:** Gray PVC, Dual Rated TC/STOOW, E.R Open Wiring, 14 or 16 AWG

**CONNECTOR:** Gray PVC  
**INSERT:** Gray PVC  
**COUPLER:** Die cast zinc, Black epoxy coat  
**CONTACTS:** Gold Plated Brass



# RECEPTACLES, TEES, ADAPTERS & ACCESSORIES

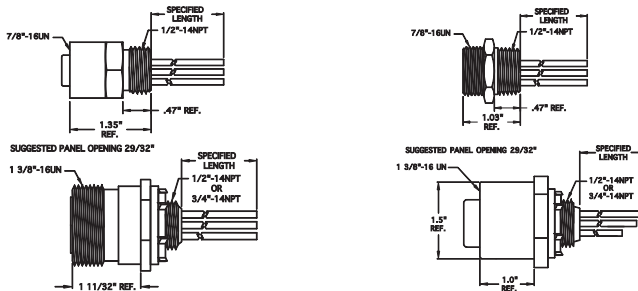


TRUNK/FEEDER					
RECEPTACLES	AMPS	MOUNTING THREAD	FEMALE	MALE	*SEE BELOW FOR CABLE LENGTH
3-Pole	30A	1/2-14NPT	CR3D6B00CxxxM	CR3E6B00CxxxM	
3-Pole	30A	3/4-14NPT	CR3J6B00CxxxM	CR3K6B00CxxxM	
4-Pole	25A	1/2-14NPT	CR4D6B00CxxxM	CR4E6B00CxxxM	
4-Pole	25A	3/4-14NPT	CR4J6B00CxxxM	CR4K6B00CxxxM	

DROP/BRANCH					
RECEPTACLES	AMPS / AWG	MOUNTING THREAD	FEMALE	MALE	*SEE BELOW FOR CABLE LENGTH
3-Pole	18A 14AWG	1/2-14NPT	MR3D5B00CxxxM	MR3E5B00CxxxM	
3-Pole	13A 16AWG	1/2-14NPT	MR3D4B00CxxxM	MR3E4B00CxxxM	
4-Pole	15A 14AWG	1/2-14NPT	MR4D5B00CxxxM	MR4E5B00CxxxM	
4-Pole	10A 16AWG	1/2-14NPT	MR4D4B00CxxxM	MR4E4B00CxxxM	

\*Specify Cable Assembly Length xxx = 010 = 1M, 020 = 2M, etc.  
Standard Lengths are 1 through 6M. Consult factory for special lengths



TEES	TRUNK MALE-FEMALE w/ FEMALE DROP	TRUNK MALE-FEMALE w/ TRUNK FEMALE DROP	REDUCING ADAPTERS MALE TRUNK-FEMALE DROP	GROUND ADAPTERS
3-Pole	CT3R1C	CT3RC6	X8652-MIL-109-F	3P C-H Interface Female X8652-224
4-Pole	CT4R1C	CT4RC6	X8653-MIL-110-F	3P C-H Interface Male X8652-225

TRUCK/FEEDER	FEMALE ATTACH	MALE ATTACH.	CAP EXT THRD	CAP INT THRD
3-Pole	X8652-FPGOCL	X8652-MPGOCL	1463923	1463964
4-Pole	X8653-FPGOCL	X8653-MPGOCL		

DROP/BRACH				
3-Pole	5000109-370	5000109-373	3316582-2A	3316582-1A
4-Pole	5000110-370	5000110-373		



**COOPER** Crouse-Hinds

**For more information:**  
If further assistance is required, please contact an authorized Crouse-Hinds Distributor, Crouse-Hinds Sales Office or Crouse-Hinds Customer Service Department.

**In the U.S.:**  
Crouse-Hinds Molded Products  
4758 Washington Street  
LaGrange, NC 28551  
(252) 566-3014  
FAX: (252) 566-9337

**In Canada:**  
Crouse-Hinds Canada  
5925 McLaughlin Road  
Mississauga, Ontario  
Canada L5R 1B8  
(905) 507-4187  
FAX: (905) 501-4078

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[www.crouse-hinds.com](http://www.crouse-hinds.com)

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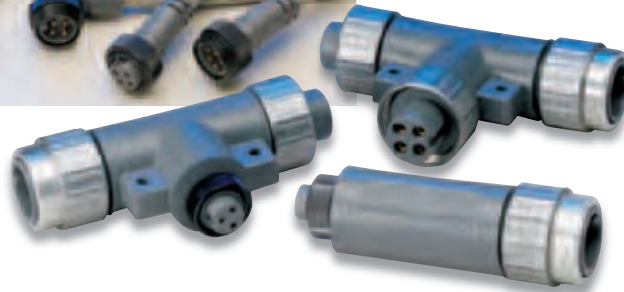
Molded Products

# SOFTPower™ CONNECTOR

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*Specifically designed to provide NFPA-79 compliant components while reducing labor and material costs.*



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- Dual rated cable provides crush and impact performance of type (MC) metal clad cable. Flexible PVC cable provides additional adaptability, which eases installation without sacrificing safety.
- Factory molded-to-cable connectors provide quick connect and disconnect capabilities. Modular components allow for easy expansion and reconfiguration of systems without the need for re-wiring. Eliminates the need for multiple cable assemblies—reducing installation time, design time and special tools.
- Labor saving installation and factory tested connectors eliminate mis-wiring in the field.
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# SOFTPower™ CONNECTOR

## TRUNK/FEEDER ASSEMBLIES

Available in 3- and 4-Pole Change-Out connector assemblies. Each connector is molded to dual rated TC/STOOW, 10AWG cable for applications up to 30 amps.



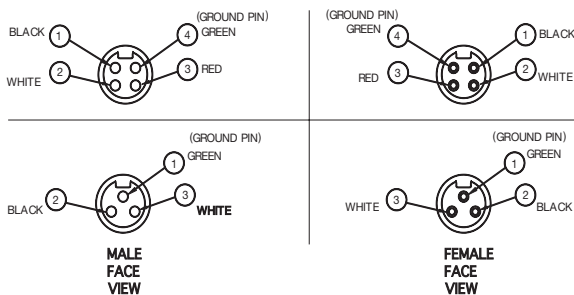
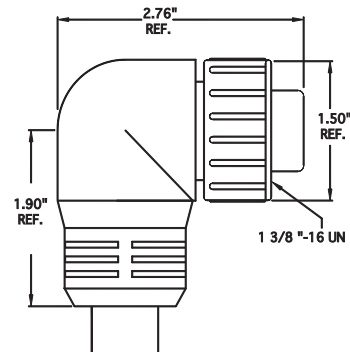
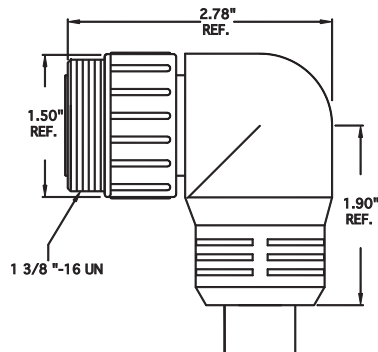
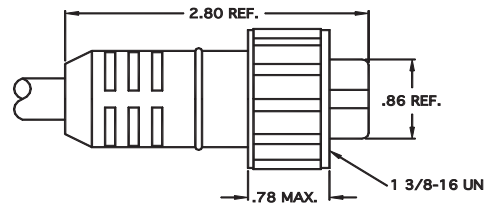
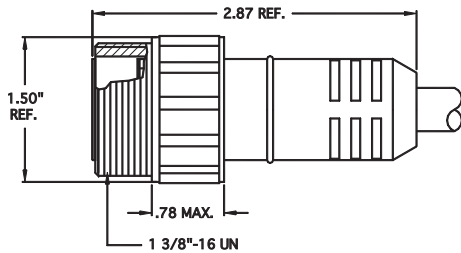
SINGLE ENDED CORDS	AMPS		STRAIGHT	90°	*SEE BELOW FOR CABLE LENGTH
3-Pole	30A	MALE	CA3B6T06CxxxM	CA3E6T06CxxxM	
3-Pole	30A	FEMALE	CA3C6T06CxxxM	CA3F6T06CxxxM	
4-Pole	25A	MALE	CA4B6T02CxxxM	CA4E6T02CxxxM	
4-Pole	25A	FEMALE	CA4C6T02CxxxM	CA4F6T02CxxxM	

DOUBLE ENDED CORDS	AMPS	FEMALE STRAIGHT/ MALE STRAIGHT	FEMALE 90°/ MALE STRAIGHT	FEMALE STRAIGHT/ MALE 90°	FEMALE 90°/ MALE 90°
3-Pole	30A	CA3R6T06CxxxM	CA3T6T06CxxxM	CA3H6T06CxxxM	CA3K6T06CxxxM
4-Pole	25A	CA4R6T02CxxxM	CA4T6T02CxxxM	CA4H6T02CxxxM	CA4K6T02CxxxM

\*Specify Cable Assembly Length xxx = 010 = 1M, 020 = 2M, etc.

Standard Lengths are 1 through 6M, 10M, 15M, 20M, & 30M. Consult factory for special lengths



**VOLTS:** 600  
**AMPERAGE:** 3P 30A  
 4P 25A

**CABLE:** Gray PVC, Dual Rated TC/STOOW, E.R Open Wiring, 10AWG, O.D. .685 + .010 10/3C .730 + .010 10/4C

**CONNECTOR:** Gray PVC  
**INSERT:** Gray PVC  
**COUPLER:** Die cast zinc  
**CONTACTS:** Brass alloy



## DROP / BRANCH ASSEMBLIES

Available in 3- and 4-Pole Mini-Line connector assemblies. Each connector is molded to dual rated TC/STOOW, 14 or 16AWG cable for applications up to 18 amps.

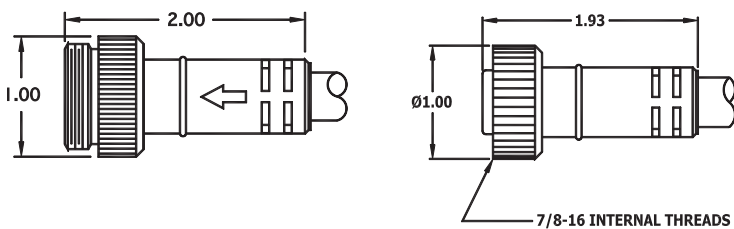


SINGLE ENDED CORDS	AMPS / AWG		STRAIGHT	90°	*SEE BELOW FOR CABLE LENGTH
3-Pole	18A 14AWG	MALE	ML3B5T24CxxxM	ML3E5T24CxxxM	
	18A 14AWG	FEMALE	ML3C5T24CxxxM	ML3F5T24CxxxM	
3-Pole	13A 16AWG	MALE	ML3B4T04CxxxM	ML3E4T04CxxxM	
	13A 16AWG	FEMALE	ML3C4T04CxxxM	ML3F4T04CxxxM	
4-Pole	15A 14AWG	MALE	ML4B5T25CxxxM	ML4E5T25CxxxM	
	15A 14AWG	FEMALE	ML4C5T25CxxxM	ML4F5T25CxxxM	
4-Pole	10A 16AWG	MALE	ML4B4T01CxxxM	ML4E4T01CxxxM	
	10A 16AWG	FEMALE	ML4C4T01CxxxM	ML4F4T01CxxxM	

DOUBLE ENDED CORDS	AMPS	FEMALE STRAIGHT/ MALE STRAIGHT	FEMALE 90°/ MALE STRAIGHT	FEMALE STRAIGHT/ MALE 90°	FEMALE 90°/ MALE 90°
3-Pole	18A 14AWG	ML3R5T24CxxxM	ML3T5T24CxxxM	ML3H5T24CxxxM	ML3K5T24CxxxM
	13A 16AWG	ML3R4T04CxxxM	ML3T4T04CxxxM	ML3H4T04CxxxM	ML3K4T04CxxxM
4-Pole	15A 14AWG	ML4R5T25CxxxM	ML4T5T25CxxxM	ML4H5T25CxxxM	ML4K5T25CxxxM
	10A 16AWG	ML4R4T01CxxxM	ML4T4T01CxxxM	ML4H4T01CxxxM	ML4K4T01CxxxM

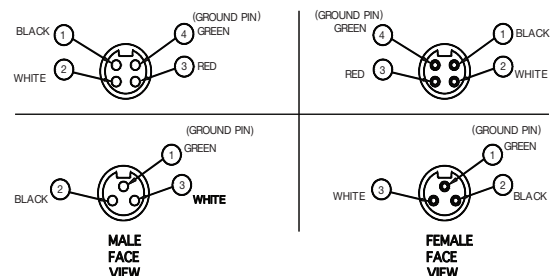
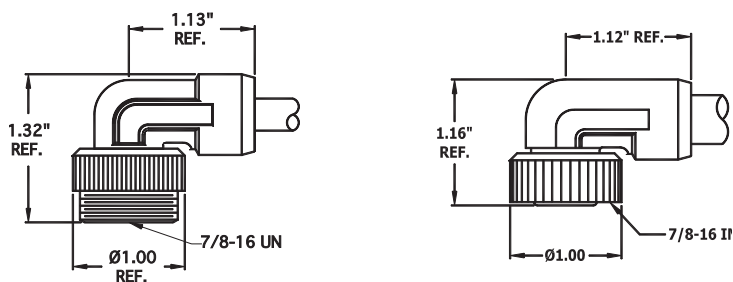
\*Specify Cable Assembly Length xxx = 010 = 1M, 020 = 2M, etc.  
Standard Lengths are 1 through 6M, 10M, 15M, 20M, & 30M. Consult factory for special lengths



**VOLTS:** 600  
**AMPERAGE:** 3P 13A 16AWG, 18A 14AWG  
4P 10A 16AWG, 15A 14AWG

**CABLE:** Gray PVC, Dual Rated TC/STOOW, E.R Open Wiring, 14 or 16 AWG

**CONNECTOR:** Gray PVC  
**INSERT:** Gray PVC  
**COUPLER:** Die cast zinc, Black epoxy coat  
**CONTACTS:** Gold Plated Brass



# RECEPTACLES, TEES, ADAPTERS & ACCESSORIES

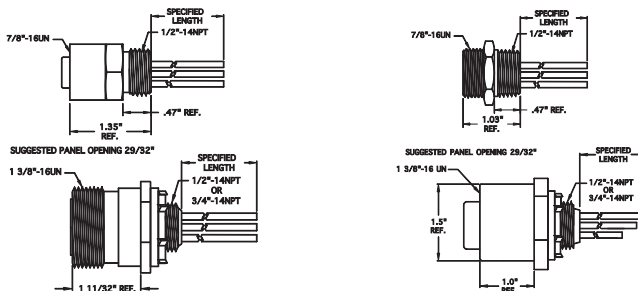


TRUNK/FEEDER					
RECEPTACLES	AMPS	MOUNTING THREAD	FEMALE	MALE	*SEE BELOW FOR CABLE LENGTH
3-Pole	30A	1/2-14NPT	CR3D6B00CxxxM	CR3E6B00CxxxM	
3-Pole	30A	3/4-14NPT	CR3J6B00CxxxM	CR3K6B00CxxxM	
4-Pole	25A	1/2-14NPT	CR4D6B00CxxxM	CR4E6B00CxxxM	
4-Pole	25A	3/4-14NPT	CR4J6B00CxxxM	CR4K6B00CxxxM	

DROP/BRANCH					
RECEPTACLES	AMPS / AWG	MOUNTING THREAD	FEMALE	MALE	*SEE BELOW FOR CABLE LENGTH
3-Pole	18A 14AWG	1/2-14NPT	MR3D5B00CxxxM	MR3E5B00CxxxM	
3-Pole	13A 16AWG	1/2-14NPT	MR3D4B00CxxxM	MR3E4B00CxxxM	
4-Pole	15A 14AWG	1/2-14NPT	MR4D5B00CxxxM	MR4E5B00CxxxM	
4-Pole	10A 16AWG	1/2-14NPT	MR4D4B00CxxxM	MR4E4B00CxxxM	

\*Specify Cable Assembly Length xxx = 010 = 1M, 020 = 2M, etc.  
Standard Lengths are 1 through 6M. Consult factory for special lengths



TEES	TRUNK MALE-FEMALE w/ FEMALE DROP	TRUNK MALE-FEMALE w/ TRUNK FEMALE DROP	REDUCING ADAPTERS MALE TRUNK-FEMALE DROP	GROUND ADAPTERS
3-Pole	CT3R1C	CT3RC6	X8652-MIL-109-F	3P C-H Interface Female X8652-224
4-Pole	CT4R1C	CT4RC6	X8653-MIL-110-F	3P C-H Interface Male X8652-225

TRUCK/FEEDER	FEMALE ATTACH	MALE ATTACH.	CAP EXT THRD	CAP INT THRD
3-Pole	X8652-FPGOCL	X8652-MPGOCL	1463923	1463964
4-Pole	X8653-FPGOCL	X8653-MPGOCL		

DROP/BRACH				
3-Pole	5000109-370	5000109-373	3316582-2A	3316582-1A
4-Pole	5000110-370	5000110-373		



**COOPER** Crouse-Hinds

**For more information:**

If further assistance is required, please contact an authorized Crouse-Hinds Distributor, Crouse-Hinds Sales Office or Crouse-Hinds Customer Service Department.

**In the U.S.:**

Crouse-Hinds Molded Products  
4758 Washington Street  
LaGrange, NC 28551  
(252) 566-3014  
FAX: (252) 566-9337

**In Canada:**

Crouse-Hinds Canada  
5925 McLaughlin Road  
Mississauga, Ontario  
Canada L5R 1B8  
(905) 507-4187  
FAX: (905) 501-4078

**For the latest in new products and services, visit our website at:**

[www.crouse-hinds.com](http://www.crouse-hinds.com)

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## ATTACHABLE, FLEXTITE™ PENDANT STATION, 2 BUTTON

### ORDERING INFORMATION:

GM NACCL ITEM NO.	CROUSE-HINDS PART NO.	LENGTH
9045	X8995-1	NA



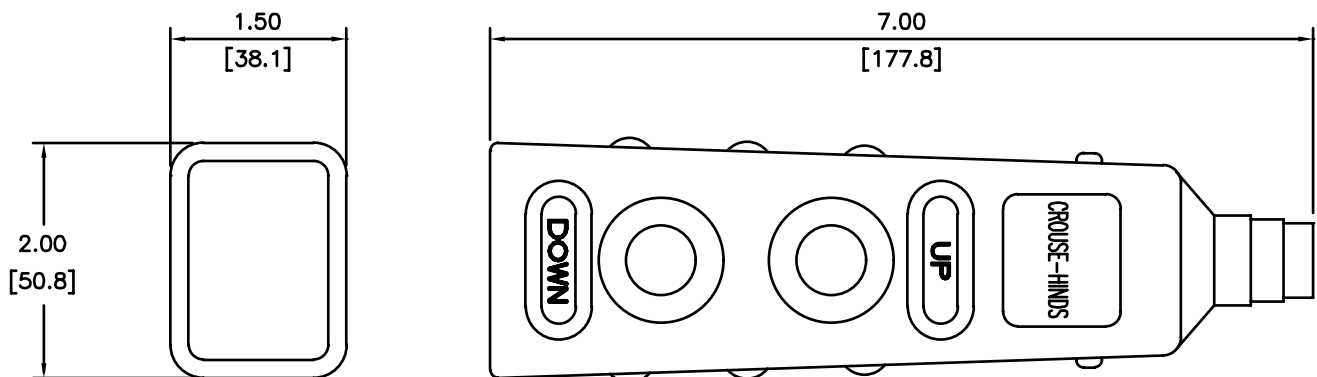
### TECHNICAL DATA:

VOLTAGE	240VAC	7.5A
	120VAC	15A
	24VAC	15A
	250VDC	0.27A
	125VDC	0.55A
TEMPERATURE RANGE	-20°C TO 149°C	
PROTECTION	NEMA 1, 2, 3, 4, 5, AND 12	

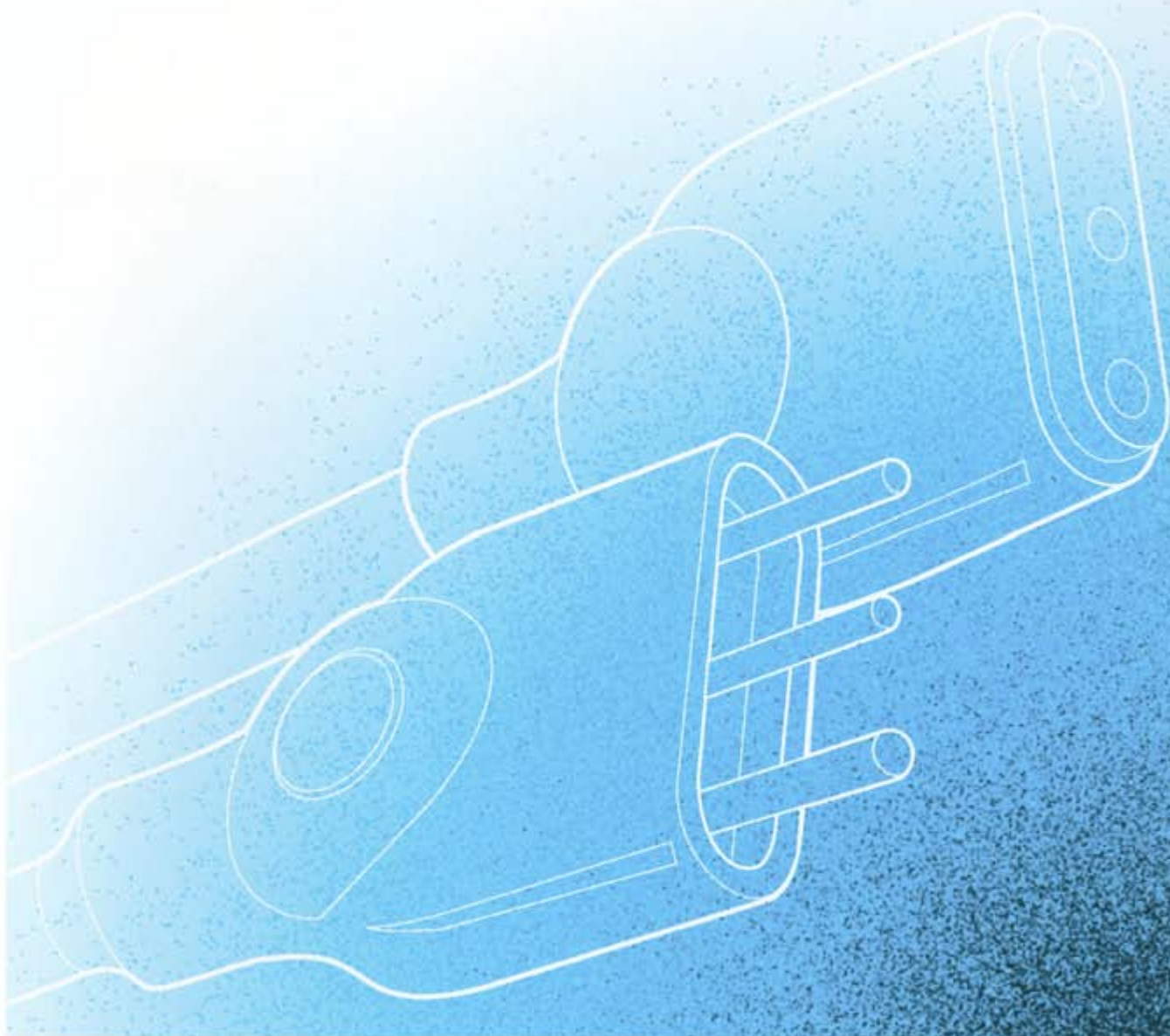
### MATERIAL DATA:

OUTER HOUSING	45 DURO., YELLOW NEOPRENE
CABLE	ACCEPTS CABLE DIAMETERS FROM .325" TO .620", #16/3 TO 14/4 AWG
CONTACT STYLE	MOMENTARY STYLE
CONTACTS	MACHINED BRASS
CONTACT SUPPORTS	NYLON

- UL Recognition: Designed in accordance with UL 508



**Crouse-Hinds Molded Products**  
**Oval Connectors**



**COOPER**  Crouse-Hinds



# Crouse-Hinds Heavy duty Oval Connectors absorb maximum punishment.

## Electrical Parameters

**2 to 4 Contacts, #14 AWG  
through #1 AWG Conductors.  
Up to 600 Volts, 95 Amps.**

A heavy-duty, molded-to-cable connector particularly well suited for most power applications. Extremely rugged neoprene construction will absorb maximum punishment. Its oval shape permits it to lie flat creating minimum obstruction in work areas.

Available in both polarized and nonpolarized designs; the nonpolarized design permits reverse phasing in three phase applications.

Receptacles have terminal backs for easy wiring and are available with spring-loaded sealing covers. The heavy-duty castings can be either panel mounted or furnished with a wiring box. Mating male and female plugs molded to standard lengths of cable are available with or without safety chains to prevent accidental disconnect.

Ovals are molded to various standard lengths of neoprene jacketed cable.

### Sealed against environment

One piece molded-to-cable construction assures that contaminants cannot enter from cable end and a resilient neoprene shroud seals the mated units. Result is a completely sealed connector that maintains circuit integrity under the most stringent conditions.

### Flattened oval shape

Mated plugs lie flat in working areas; offer minimum obstruction. Sturdy neoprene construction will not shatter or crack from rough handling, impact, or pressure.

### Corrosion resistant

Common industrial pollutants including oils, acids, etc., have little or no effect on neoprene components.

### Easily installed

Since cable is prewired and molded to the plug in the factory, one step is eliminated in the field hookup. Receptacles have roomy, easy-to-wire terminal backs.

### Withstand physical abuse

The resilient one-piece molded neoprene construction shrugs off heavy physical abuse. They will withstand many times the twisting and flexing of conventional connectors.

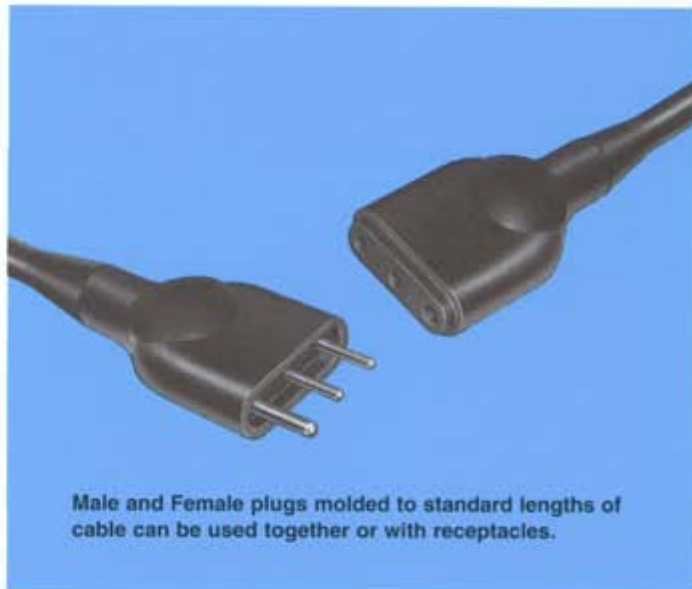
### Electrically safe

Molded construction insulates, won't break or shatter like phenolic or plastic connectors.



## Crouse-Hinds Oval Connectors suited for most power applications.

The oval connector is available in a number of combinations so that it may be adapted to almost any requirement. In addition to mating plugs, and plugs with safety chains, receptacles are available with covers and with a wiring box.



Male and Female plugs molded to standard lengths of cable can be used together or with receptacles.

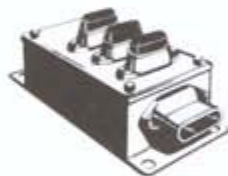


An insulated terminal back arrangement simplifies wiring.



If required, a wiring box is available which provides for side or top mounting of the receptacle and an additional provision of a 15° angle adapter.

### Special variations utilizing the Oval design are also available on special order



**Gang Boxes** are excellent for distributing electrical power to a variety of equipment from a single feeder. Consisting of sturdy, dust-proof metal boxes on which Crouse-Hinds receptacles are permanently mounted, they're available in all six general styles.



Cadmium plated steel safety chains with end snaps prevent accidental disconnects.



**Side Outlets** Easily installed, safe to use factory molded strings of electrical outlets spaced into size 14, 12, or 10, 2- or 3-conductor cord. Lead lengths and outlet spacing to users' specifications.



**Branches** Crouse-Hinds branches are dependable, long-lasting and easy to handle, multiple electrical outlets . . . factory molded to cable as one-piece neoprene insulated units.



WITH 15°  
ANGLE  
PLATE

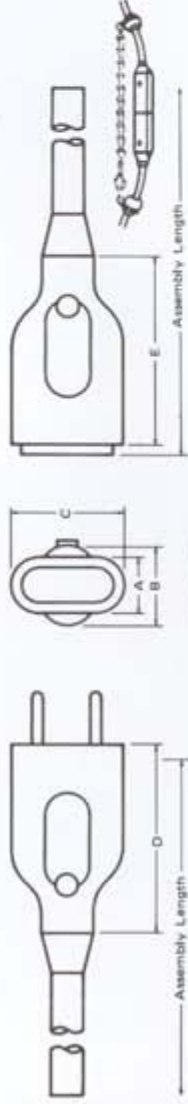
Receptacles are furnished with spring-loaded sealing covers.



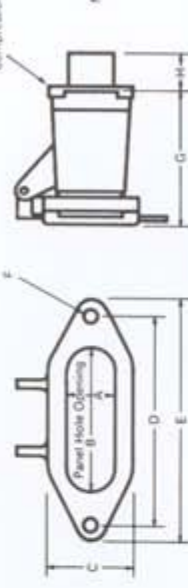
Sturdy heavy-duty castings provide a convenient mounting arrangement for male and female receptacles.



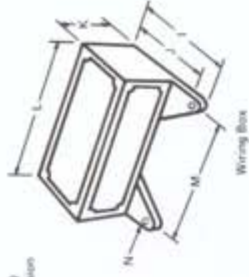
# Oval Connectors



**PLUG**



**RECEPTACLE**



Wiring Box

NOTE: Refer to price list for identification of stock items.

No. of Cont.	ELECTRICAL DATA Max. Cable Rating AWG Type Amp Volts	DESCRIPTION Polarized by Seal	DIMENSIONS (Approx. inches)					Asy. Lgth.	PLUG PART NUMBERS		RECEPTACLE PART NUMBERS		Asy. Lgth.	DIMENSIONS (Approx. inches)					PART NUMBER	DIMENSIONS (Approx. inches)												
			A	B	C	D	E		Without Safety Chain	With Safety Chain	Male	Female		Male	Female	A	B	C		D	E	F	G	H	I	J	K	L	M	N	O	
2	14 SO 15 600	Pin Short Size Male Shroud	7/8	1 1/2	1 3/4	3 3/8	3 1/8	12"	X8020-3	X8020-4	X8020-6 X8020-134	X8020-9 X8020-136	X8020-38	X8020-34	Term. Back	7/8	1 1/2	1 3/4	3 3/8	3 1/8	2 1/2	3/8	2 1/2	3/8	SBM4135	2 1/2	2 1/2	2	3 1/8	3 1/8	3/8	1/2
2	14 SO 15 600	Not Short Pol. Male Shroud	7/8	1 1/2	1 3/4	3 3/8	3 1/8	12"	X8015-1 X8015-135	X8015-5	X8015-20	X8015-21	X8015-32	X8015-33	Term. Back	7/8	1 1/2	1 3/4	3 3/8	3 1/8	2 1/2	3/8	2 1/2	3/8	SBM4135	2 1/2	2 1/2	2	3 1/8	3 1/8	3/8	1/2
2	12 SO 20 600	Pin Short Size Male Shroud	1	1 1/2	2 1/4	4 1/4	4 3/8	12"	X8021-2	X8021-3	X8021-122	X8021-124	X8021-32	X8021-31	Term. Back	1	2 1/4	1 3/4	3 3/4	4 1/8	3 3/8	3 3/8	3 3/8	3 3/8	SBM4136	2 3/8	2 1/2	2	4 1/8	3 3/8	3/8	3/4
2	10 SO 25 600	Not Short Pol. Male Shroud	1	1 1/2	2 1/4	4 1/4	4 3/8	12"	X8016-16	X8016-17	X8016-23 X8016-126	X8016-6 X8016-128	X8016-44	X8016-43	Term. Back	1	2 1/4	1 3/4	3 3/4	4 1/8	3 3/8	3 3/8	3 3/8	3 3/8	SBM4136	2 3/8	2 1/2	2	4 1/8	3 3/8	3/8	3/4
2	6 W 50 600	Pin Short Size Male Shroud	1 1/4	1 3/4	2 1/2	5 1/4	5 1/8	18"	X8024-6	X8024-7	X8024-5	X8024-4	X8024-14	X8024-15	Term. Back	1 1/4	2 3/4	2	4 1/2	5 1/8	4 3/8	4 3/8	4 3/8	4 3/8	SBM4136	3 3/8	3 1/4	2 1/2	5 1/8	4 1/8	3/8	1 1/4
2	6 W 50 600	Not Short Pol. Male Shroud	1 1/4	1 3/4	2 1/2	4 3/4	4 3/8	18"	X8017-17 X8017-143	X8017-18 X8017-144	X8017-6 X8017-142	X8017-3 X8017-145	X8017-27	X8017-28	Term. Back	1 1/4	2 3/4	1 3/4	3 3/4	4 3/8	3 3/8	3 3/8	3 3/8	3 3/8	SBM4137	3 3/8	2 3/8	2 1/2	5	4 1/8	3/8	1
2	2 W 95 600	Pin Short Size Male Shroud	1 1/2	1 3/4	2 1/2	5 1/4	6 1/4	18"	X8026-93	X8026-95	X8026-45 X8026-97	X8026-2 X8026-99	X8026-19	X8026-20	Term. Back	1 1/2	3 1/4	2 3/8	5 3/8	6 1/8	5 3/8	5 3/8	5 3/8	SBM4139	4 1/4	3 3/8	3 1/4	6 1/8	5 1/8	3/8	1 1/4	
2	2 PD 95 600	Pin Short Size Male Shroud	1 3/8	1 3/4	2 1/2	5 1/4	6 1/4	18"	X8026-11	X8026-10	X8026-1	X8026-43	X8026-19	X8026-20	Term. Back	1 3/8	3 3/8	2 3/8	5 3/8	6 1/8	5 3/8	5 3/8	5 3/8	SBM4139	4 1/4	3 3/8	3 1/4	6 1/8	5 1/8	3/8	1 1/4	
2	2 W 95 600	Not Short Pol. Male Shroud	1 1/2	1 3/4	2 1/2	5 1/4	5 3/8	18"	X8018-9	X8018-10	X8018-19 X8018-117	X8018-20 X8018-119	X8018-31	X8018-32	Term. Back	1 1/2	2 3/4	2	4 1/2	5 1/8	4 3/8	4 3/8	4 3/8	SBM4138	3 3/8	3 1/4	2 1/2	5 1/8	4 1/8	3/8	1 1/4	

2	2	W	95	600	Not Short Pol. Male Shroud	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "	5 $\frac{1}{4}$ "	6 $\frac{1}{4}$ "	18" 6'	X8019-16 X8019-96	X8019-27	X8019-28	Term. Back	1 $\frac{1}{8}$ "	3 $\frac{1}{4}$ "	2 $\frac{1}{8}$ "	5	6	3 $\frac{1}{4}$ "	5 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	SBM4139	4 $\frac{1}{8}$ "	3 $\frac{1}{4}$ "	3 $\frac{1}{4}$ "	6 $\frac{1}{4}$ "	5 $\frac{1}{4}$ "	7 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "		
2	2	PD	95	600	Not Short Pol. Male Shroud	19"	1 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "	5 $\frac{1}{4}$ "	6 $\frac{1}{4}$ "	19"	X8019-53	X8019-27	X8019-28	Term. Back	1 $\frac{1}{8}$ "	3 $\frac{1}{4}$ "	2 $\frac{1}{8}$ "	5	6	3 $\frac{1}{4}$ "	5 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	SBM4139	4 $\frac{1}{8}$ "	3 $\frac{1}{4}$ "	3 $\frac{1}{4}$ "	6 $\frac{1}{4}$ "	5 $\frac{1}{4}$ "	7 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "		
<b>THREE POLE</b>																																	
3	14	SO	15	600	Pin Short Size Male Shroud	12" 6'	7 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "	2 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	X8041-11 X8041-164	X8041-56	X8041-55	Term. Back	1	2 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	4	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	SBM4136	2 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "	2	4 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "		
3	14	SO	15	600	Not Short Pol. Male Shroud	12" 6'	1 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "	2 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	12" 6'	X8036-13 X8036-111	X8036-38	X8036-37	Term. Back	1	2 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	4	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	SBM4136	2 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "	2	4 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	
3	12	SO	20	600	Pin Short Size Male Shroud	16"	1	1 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "	4	4 $\frac{1}{8}$ "	X8042-95	X8042-8	X8042-25	Term. Back	1	2 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	4	4 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	SBM4140	3 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "	5	4 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	
3	12	SO	20	600	Pin Full Size Male Shroud	16"	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "	4 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "	X8053-14	X8053-12																				
3	10	SO	25	600	Pin Short Size Male Shroud	12" 6'	1	1 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "	4	4 $\frac{1}{8}$ "	X8043-12	X8043-50	X8043-10	Term. Back	1	2 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	4	4 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	SBM4140	3 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "	5	4 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	
3	10	SO	25	600	Not Short Pol. Male Shroud	12" 10'	1	1 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "	4	4 $\frac{1}{8}$ "	X8037-94	X8037-25	X8037-26	Term. Back	1	2 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	4	4 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	SBM4140	3 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "	5	4 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	
3	8	W	35	600	Pin Short Size Male Shroud	12" 10'	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	3 $\frac{1}{4}$ "	4 $\frac{1}{8}$ "	5 $\frac{1}{4}$ "	X8044-107	X8044-28	X8044-29	Term. Back	1 $\frac{1}{8}$ "	3 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	4 $\frac{1}{8}$ "	5 $\frac{1}{4}$ "	4 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	SBM4141	3 $\frac{1}{4}$ "	3	2 $\frac{1}{4}$ "	5 $\frac{1}{4}$ "	4 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	
3	6	W	50	600	Pin Short Size Male Shroud	18" 10'	1 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	3 $\frac{1}{4}$ "	5 $\frac{1}{4}$ "	6 $\frac{1}{4}$ "	X8045-8	X8045-30	X8045-10	Term. Back	1 $\frac{1}{8}$ "	3 $\frac{1}{4}$ "	2	5 $\frac{1}{4}$ "	6 $\frac{1}{4}$ "	5 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	SBM4142	3 $\frac{1}{4}$ "	3 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "	6 $\frac{1}{4}$ "	5 $\frac{1}{4}$ "	7 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	
3	6	W	50	600	Not Short Pol. Male Shroud	19"	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	3 $\frac{1}{4}$ "	4 $\frac{1}{8}$ "	5 $\frac{1}{4}$ "	X8038-4	X8038-24	X8038-25	Term. Back	1 $\frac{1}{8}$ "	3 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	4 $\frac{1}{8}$ "	5 $\frac{1}{4}$ "	4 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	SBM4141	3 $\frac{1}{4}$ "	3	2 $\frac{1}{4}$ "	5 $\frac{1}{4}$ "	4 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "

\* Cable rating based on conductor temperature of 60°C and maximum ambient temperature of 40°C.

\*\* Cable lengths are subject to standard Crouse-Hinds tolerances.

Consult factory for variations in cable type and overall length.

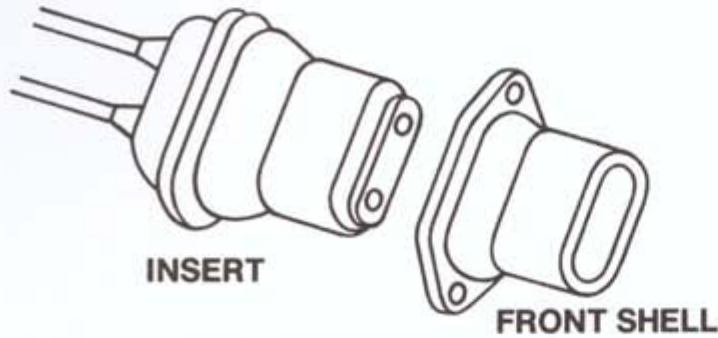
Type SO and Type W cable available, consult factory.







ELECTRICAL DATA	DESCRIPTION	DIMENSIONS (Approx. Inches)					Asy. Lgh.	PLUG PART NUMBERS		RECEPTACLE PART NUMBERS		Asy. Lgh.	DIMENSIONS (Approx. Inches)					PART NUMBER	DIMENSIONS (Approx. Inches)													
		No. of Cables	Max. Cable Rating	AWG Type	Acq. Volts	A		B	C	D	E		Without Safety Chain	With Safety Chain	Male	Female	A			B	C	D	E	F	G	H	I	J	K	L	M	N
4 14 SO 12 600	Pin Short Arrangement F-Female Shroud	1	1 1/2	2 3/4	3 1/4	4 1/4	16" 10"	X8059-11	X8059-15	X8059-56 X8059-114	X8059-51 X8059-116	X8059-25	X8059-26	1	2 3/4	1 1/2	4	4 1/2	5/32	2 3/4	3/8		SBM4140	3 1/2	2 3/4	2 3/4	5	4 1/2	5/8	3/8	1/2	
4 14 SO 12 600	Pin Full Male Shroud	1 1/2	1 1/2	3 1/2	5 1/2	3 3/4	30"	X8064-4	X8064-1	X8064-5	X8064-2																					
4 10 SO 20 600	Pin Short Male Shroud	1 1/2	1 1/2	3 3/4	5	5 1/2	24" 10"	X8060-15	X8060-2	X8060-22 X8060-197	X8060-26 X8060-199	X8060-31	X8060-33	1 1/2	3 3/4	2	5 1/4	6	5/32	3 1/4	1 3/16		SBM4144	3 1/2	3	2 3/4	6 3/8	5 3/8	3/8	1/2		
4 10 SO 20 600	Ground Pin Male Shroud	1 1/2	1 1/2	3 3/4	4 1/4	5 1/4	30"	X8401-6	X8401-5																							
4 8 W 30 600	Pin Short Female Shroud	1 1/2	1 1/2	3 3/4	4 1/4	6	24" 10"	X8061-2	X8061-3	X8061-17 X8061-120	X8061-20 X8061-122	X8061-39	X8061-10	1 1/2	3 3/4	2	5 1/4	6	5/32	3 1/4	1 3/16		SBM4144	3 1/2	3	2 3/4	6 3/8	5 3/8	3/8	1/2		
4 8 W 30 600	Pin Full Male Shroud	1 1/2	1 1/2	4 1/4	6 1/2	5 3/4	30"	X8065-1	X8065-2																							
4 8 W 30 600	Ground Pin Male Shroud	1 1/2	1 1/2	3 3/4	5 1/2	5 1/4	30"	X8364-6	X8364-3	X8364-8	X8364-5																					
4 6 W 40 600	Pin Short Male Shroud	1 1/2	1 1/2	4 1/4	5 1/2	6 1/2	30" 6" 10"	X8062-8 X8062-116 X8062-117	X8062-24 X8062-118 X8062-119	X8062-6 X8062-113 X8062-120	X8062-18 X8062-121 X8062-122	X8062-33	X8062-27	Term. Back	1 1/2	4 1/2	2 1/2	6 1/4	7 1/4	3/8	5 1/8	1 1/8	SBM4145	3 3/4	3 1/2	3	7 3/8	6 3/8	7/8	1 1/2		
4 2 W 75 600	Pin Short Male Shroud	1 1/2	1 1/2	4 1/4	6 1/2	7 1/2	30" 10"	X8063-28	X8063-27	X8063-39 X8063-140	X8063-6 X8063-142	X8063-62	X8063-46	Term. Back	1 1/2	4 1/2	2 3/4	6 1/2	7 1/2	3/8	5	3	SBM4143	5 1/2	4 1/8	4 3/8	7 1/8	6 3/8	7/8	1 1/2		
4 2 W 75 600	Pin Full Male Shroud	1 3/4	1 3/4	4 1/4	7 1/2	5	30"	X8066-1	X8066-2																							
4 1 W 85 600	Pin Full Male Shroud	2	2 1/2	5 1/2	8 1/2	6 3/4	45"	X8067-1	X8067-2																							

**FOUR POLE**

# Oval Receptacle Parts



To order parts: refer to illustration to identify part required. Locate reference part number (number to left of dash in complete part number) and follow across to correct column.

				
REF. NO.	TERMINAL BACK INSERT MALE	TERMINAL BACK INSERT FEMALE	MOUNTING SHELL WITH COVER	WIRING BOX
X8015	X8015-17	X8015-18	X1677	SBM4135
X8016	X8016-18	X8016-19	X1692	SBM4136
X8017	X8017-16	X8017-19	X1767	SBM4137
X8018	X8018-16	X8018-15	X1753	SBM4138
X8019	X8019-18	X8019-17	X1768	SBM4139
X8020	X8020-2	X8020-5	X1677	SBM4135
X8021	X8021-4	X8021-5	X1692	SBM4136
X8024	X8024-8	X8024-3	X1753	SBM4138
X8025	X8025-9	X8025-8	X1768	SBM4139
X8026	X8026-13	X8026-12	X1768	SBM4139
X8036	X8036-14	X8036-15	X1692	SBM4136
X8037	X8037-16	X8037-15	X1700	SBM4140
X8038	X8038-9	X8038-8	X1690	SBM4141
X8041	X8041-23	X8041-22	X1692	SBM4136
X8042	X8042-20	X8042-19	X1700	SBM4140
X8043	X8043-18	X8043-17	X1700	SBM4140
X8044	X8044-18	X8044-17	X1690	SBM4141
X8045	X8045-19	X8045-17	X1699	SBM4142
X8059	X8059-17	X8059-16	X1717	SBM4140
X8060	X8060-14	X8060-13	X1697	SBM4144
X8061	X8061-9	X8061-12	X1697	SBM4144
X8062	X8062-21	X8062-26	X1754	SBM4145
X8063	X8063-30	X8063-26	X1721	SBM4143
X8364	X8364-11	X8364-9	X1697	SBM4144
X8401	X8401-13	X8401-7	X1697	SBM4144

NOTE: Refer to price list for identification of stock items



# Typical Applications

- Electro-magnets
- Power Distribution
- Runout Table Motors
- Welding Power
- Portable Tools
- Conveyors
- Standby Power
- Lighting
- Motor Disconnects

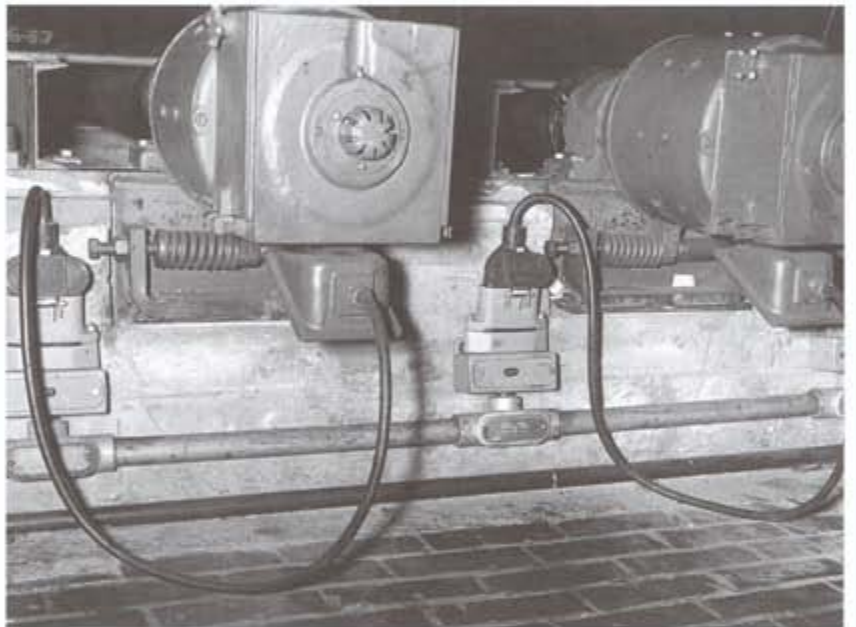
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Weather-tight oval connectors supply power to portable equipment from an unsheltered distribution center at the job site.



Weather-tight, dust tight, plugs with strain relief chains allow easy removal and replacement of electro-magnets.



Oval connectors on runout table motors provide a reliable, sealed, quick disconnect for motor leads.

Distributed by:



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**CROUSE-HINDS<sup>®</sup>  
FLEXITITE<sup>™</sup>  
PUSH-BUTTON  
STATIONS**





# CROUSE-HINDS™ FLEXITITE™ PUSH-BUTTON STATIONS

One and Two Speed 2,4,6 and 8 Buttons  
Meet OSHA Requirements

*Crouse-Hinds Flexitite Pendant Push-Button Stations are steel reinforced, molded neoprene units designed for safer, low maintenance control of overhead cranes and hoists. They are available in two, four, six and eight buttons; single- and two-speeds; A.C. or D.C.*

**Safety Insulated** — Meets OSHA requirements for enclosing live parts. Entire unit, except strain relief tap is insulated with neoprene. Reinforcing plates can be grounded by connection to grounding screw inside front cover.

**Safety Cushioned** — Meets OSHA requirements for preventing enclosure deformation. Resilient neoprene construction protects internal switches and connectors from accidental damage caused by impact. Neoprene construction also gives extra protection to personnel from injuries caused by swinging pendants. Gives similar cushioned protection against damage to goods or equipment.

**Sealed enclosure** — Meets OSHA requirements for protection from dirt, grease, oil and moisture. Enclosures are designed to meet the requirements of NEMA 1 General Purpose, NEMA 3 Weatherproof, NEMA 4 Watertight, NEMA 5 Dust Tight, NEMA 12 Oil Tight.

**Maintained Off-On Toggle Switch** — For OSHA required electrical disconnect at the pendant. Maintained off-on toggle switch enables control of power to the crane without adding special holding coils to your controller. Available on the 4, 6 and 8 button units only.

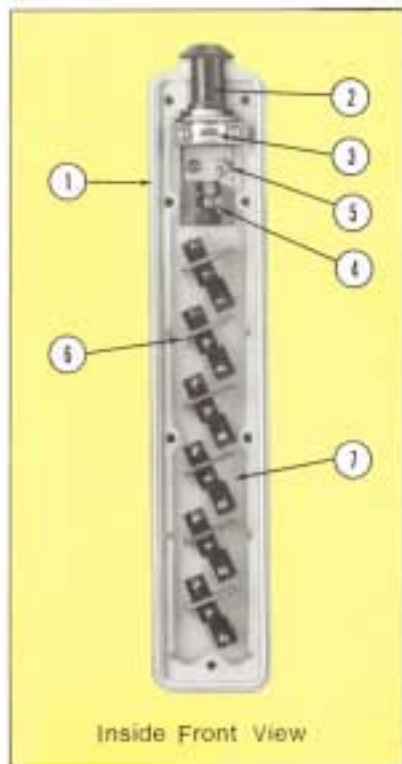
**Stress Relief** — Meets OSHA requirements for supporting pendants so as to protect Electrical Conductors against strain. Unique design features steel reinforced enclosure with built in cable clamp and strain relief tab.

**Indicator Plates** — Meets OSHA requirements for clear marking (identification) of functions. A series of easy to read legend plates are supplied with each pendant.

**Jam Resistant** — Operator buttons are raised flexible diaphragms and part of one-piece molded cover. There are no buttons for foreign matter to work around and jam.

**Long Life Switches** — Positive action, momentary contact switches are entirely enclosed and cradled in resilient neoprene. Switch units can be wired to electrically interlock opposing operations. A schematic is furnished with each unit.

**Easy Operation** — Compact 3" x 3" enclosure fits hand easily.



1. **BODY SEAL** — Compresses against mating half to form a positive seal.
2. **REDUCING GROMMETS** — Permit use of five different cable sizes while sealing cable entrance.
3. **CABLE CLAMP** — Secures conductors inside switch. Transfers strain to inner steel core of switch. (Not used with pilot light.)
4. **TOGGLE SWITCH (OPTIONAL)** — Maintained off-on switch to control power to pendant stations.
5. **GREEN GROUNDING SCREW** — Makes positive contact between inner steel core and ground wire.
6. **INSULATION BARRIERS** — On 4- and 6-button models. Position switches and separate N/O and N/C switch contacts for added safety.
7. **SEPARATOR** — For 4- and 6-button models. Tough polypropylene sheet retains switches and forms an insulated wiring channel.
8. **STRAIN RELIEF** — Integral part of the inner steel core — provides tie-off point for strain chain to relieve tension from electrical cable.
9. **ELECTRICAL INTERLOCK** — Schematic furnished to wire switches against opposed operations.
10. **LOW COST, EASILY INSTALLED** — Despite their many advantages, Joy pendant stations generally cost less than similar metal units.
11. **RAISED BUMPER** — protects lens against damage caused by impact.

**Note:**  
A cable grip is used with pilot light option, and is included with kit.



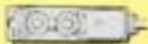
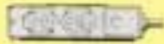
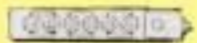

## New Feature

Heavy-duty pilot light now available! (optional)

- 125 V AC or 250 V AC
- Oiltight (NEMA 12)
- Neon bulb with red lens



## Ordering Procedure

Style	Toggle Switch *	1 Speed 20A 460V 2 hp. 230V	2 Speed 10A 230V 1/2 hp. 230V	DC 10A 125V 1/8 hp. 125V	Cable Diameter	Shipping Weight (lbs.)	Dimensions		
							Length	Width	Depth
2-Button 	None	X8635-21	X8635-22	X8635-20	.555 thru .665	2 1/2	8 1/4"	2 1/4"	3"
4-Button 	3316317	X8635-41B	X8635-42B	X8635-40B	.505 thru .730	3	13 1/4"	3"	3 1/4"
6-Button 	3316317	X8635-61B	X8635-62B	X8635-60B	.590 thru .840	6 1/2	17"	3"	3 1/4"
8-Button 	3316317	X8635-81	X8635-82*	X8635-80	.698 thru .968	9	21 1/2"	3"	3 1/4"

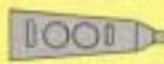
\*Should be ordered separately.

### Pilot Light Kit for 4, 6 and 8-Button Only

Lamp Voltage	4 and 6 Button Cable Diameter			8 Button
	.50 thru .62	.63 thru .74	.75 thru .87	.69 thru .97
110-125V AC	3316533	3316533-1	3316533-2	3316624
210-250V AC	3316534	3316534-1	3316534-2	3316625

Pilot light kit includes: lamp assembly with lens and bulb, cable support grip, and "S" hook. Support grip and "S" hook not required on 8 button.

### New Flexitite™ 2-Button Attachable Pendant Switch

Part Number	Contact Style	Voltage	Amps Make	Amps Break
X8995-1 yellow 	Momentary Switch	240 AC 120 AC 24 AC 250 VDC 125 VDC	7.5 15.0 15.0 0.27 0.55	0.75 1.5 2.5 0.27 0.55

\*2 speed includes: 6, 2-speed switches and 2, single speed switches.

## Replacement Parts

Style	Part Numbers			Switch Element Part Numbers				Barrier	Separator	Parts KIT†	Pilot Light Kit
	Front Cover	Back Cover	Toggle Switch Kit	1 Speed 20a. 460V 2hp. 230V	2 Speed 10a. 230V 1/2hp. 230V	DC 10a. 125V 1/8hp. 125V	Toggle On/Off Element				
2-Button	A335578	A335577-1	Not Available	3316480	314896	314903				RX8635-21	See Above Chart
4-Button	3335848-1	3335829-1	3316317	3316480	314896	314903	1316313	314849-1 (4 Req'd)	335616 (1 Req'd)	RX8635-41	
6-Button	3335845-1	3335830-1	3316317	3316480	314896	314903	1316313	314849-1 (6 Req'd)	335571 (1 Req'd)	RX8635-61	
8-Button	3344153	3344154	3316317	1316620	314896	314903	1316313	Not Req'd	Not Req'd	RX8635-80	

† Toggle Switch Kit — Includes: Toggle Switch, Guard, Assembly & Screws.

†† Parts Kit — Includes Cable Grommets, Legend Plates and Assembly Screws.

## Indicator Plates

2-Button				4, 6 and 8-Button			
Part Number	Description	Part Number	Description	Part Number	Description	Part Number	Description
315116-1	Down/West	315116-7	Rev/Left	314850-1	Bridge	314850-6	Fwd/Rev. North/South
315116-2	Start/North	315116-8	Up/East	314850-2	Trolley		On/Off Start/Stop
315116-3	Stop/South	315116-9	Raise/Lower	314850-3	Hoist	314850-9	
315116-4	Off/In	315116-10	Up/Down	314850-4	In/Out	314850-12	Raise/Lower
315116-5	On/Out	315116-11	Right/Left		Up/Down	314850-13	Inbd/Outbd
315116-6	Fwd/Right			314850-5	Right/Left East/West	314850-14	Off/On

Shoulder Bolts For Fastening Front To Back Cover —  
2-Button (P/N 1316311-2); 4- & 6-Button (P/N 1316311-1)

NOTE: Refer to price list for identification of stock items.



# Multi-Speed 6-and 8-Button

## Meets Same OSHA Requirements as One and Two Speed Push-Button Stations

Cam actuated switch modules offer up to five speeds at any button . . . controlled by button pressure. Switch elements are rated 15 amps at 250 V AC or 6 amps at 30 V DC. Nylon mechanical interlocks prevent actuation of opposing functions. Modules nest on cushions in steel reinforced one-piece neoprene cover.

### Easy to Wire

Terminal block connections and wide wiring channels facilitate wiring of pendants . . . permit fast, easy installation of components. The cable entrance accommodates cables up to 1.050" diameter and each unit is supplied with grommets which adapt to cable as small as .680". A complete set of plastic "snap-in" legends for almost any use is included.



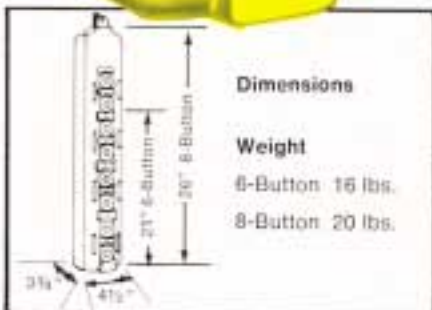
Note: Red Button is supplied for marking stop function on pendant.

### Ordering Procedure

The units are pre-packaged complete less switches.

- A. First, select proper part number for either 6- or 8-button enclosure.
- B. Second, select switch modules required (select 3 modules for 6-button; select 4 modules for 8-button).

**Note:** Enclosure includes front and back cover, hardware, grommets, and complete set of indicator plates (legends).



(A) Enclosure	Part Number	Replacement Legends	
		Description	Part Number
6-Button Enclosure	3335762-1	Bridge	314850-1
8-Button Enclosure	3335757-1	Trolley	314850-2
		Hoist	314850-3
		In/Out	314850-4
		Up/Down	314850-5
		Right/Left	314850-6
		East/West	314850-9
		Fwd/Rev,	314850-12
		North/South	314850-13
		On/Off	314850-14
		Start/Stop	
		Raise/Lower	
		Inbd/Outbd	
		Off/On	
		Maintained On/ Off	
		Maintained Off/ On	
Replacement Parts		6-Button Part Number	8-Button Part Number
	Top Cover	3344129-1	3344126-1
	Back Cover	3344126	3344125
	Hardware Accessory Kit	3316040	3316040
	Toggle Switch	3316317	3316317

NOTE: Refer to price list for identification of stock items.



# Economical Side-Mounted Toggle Hoist Switches



Molded neoprene enclosures. Rugged style provides greater operator safety and resistance to chemical fumes, water, dirt and all other industrial environmental hazards. Up-down legend perma-

nently molded into the side of switch. Rating to 250 volts, 10 amp.; switch permanently wired and molded to cord.

Style	Wiring	Max. Rating		Control	Marking (L to R as Shown)	Cord Length & Type	Part Number
		Volts	Amps				
Toggle Switch 		250 V AC	10 Amp	3-Position Toggle Momentary	Up-Down	6 ft 5" - # 16 3 / C SO	X8451-5




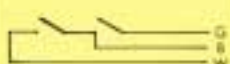


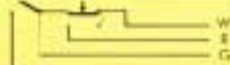

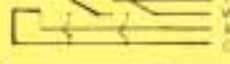
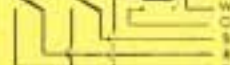
## Molded-To-Cable Pendant Switches

**PRECISION SWITCHES** — The ultimate in push-button control. Countless maintenance-free operations suitable for practically any location. Momentary or maintained contact, single or rocker action switches; thru cable feed designs available on request. Accessory strain collar with "S" hook can be

included as an integral assembly.

**ELECTRICALLY SAFER** — Thick, tough neoprene rubber completely covers switch insulating entire system and is impervious to moisture. Will withstand ordinary abuse and hazards of industry.

## Ordering Procedure

Style	Wiring	Max. Rating		Control	Marking (L to R as Shown)	Cord Length & Type	Part Number
		Volts	Amps				
Single Precision Switch 		460 V AC	15 Amp	1 NO Momentary		6 ft - # 14 2 / C SO	X8416-42
						12 ft - # 14 2 / C SO	X8416-43
						18 ft - # 14 2 / C SO	X8416-44
Twin Precision Switch 		460 V AC	15 Amp	2 NO Momentary	Down-Up	6 ft - # 14 3 / C SO	*X8365-43
						12 ft - # 14 3 / C SO	*X8365-44
Twin Push-Button 		125 V AC	12 Amp	1 NO, 1 NC Momentary	Stop-Run	15 ft - # 14 3 / C SO	X8361-19
							125 V AC
Treble Push-Button 		125 V AC	12 Amp	1 NC, 2 NO Momentary	Stop-Slow-Run	15 ft - # 14 4 / C SO	X8406-1
							125 V AC

Legend: (W) white, (B) black, (G) green, (R) red, (O) orange.



## Mountable Switches

Flexitite™ push-buttons feature one-piece, steel reinforced synthetic rubber design similar to pendant stations. They are ideal for heavy-duty, severe environmental service, yet cost less than many standard heavy-duty units. Both N/O and N/C switches can be stacked or subtracted at each push-button. Select the right combination of switches to fit your exact requirement. A wide range of legends and button operators is furnished with each unit.

### Sealed Enclosure

The steel reinforced molding with complete gasketing of mounting surface provides a positive seal against dust, liquids and vapors, when properly box or surface mounted. Flexitite push-buttons are designed to meet the requirements of NEMA 1 General Purpose, NEMA 3 Weatherproof, NEMA 4 Water-

tight, NEMA 5 Dust-tight and NEMA 12 Oil-tight. Not suitable for hazardous locations.

### Safety Design














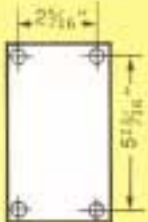





Personnel are insulated from electrical circuits; minimizes shock hazard in plant or outdoors. Large station barriers reduce accidental actuation.

### Low Maintenance

Station switches are designed for countless actuations. Because foreign substances are excluded from the enclosure, frequent switch maintenance is no longer necessary. The specially formulated neoprene face plate operates easily at ambient temperatures from  $-10^{\circ}\text{F}$  to  $180^{\circ}\text{F}$ . Special silicone compound units can operate at even wider ambient ranges.



## Ordering Procedure

Description	Ordering Data				Operator Buttons	Legend Inserts		
 1-Button	NO X8781-110		NC X8781-111		1-Green Flat 1-Red Flat 1-Red Mushroom	Start-On Stop-Off Forward-Up		
 1-Button and Light	NO X8781-10		NC X8781-11		1-Green Flat 1-Red Flat 1-Red Mushroom 1-Red Lens 1-Green Lens	Start-On Stop-Off Forward-Up Reverse-Down		
 2-Button	NO NC X8781-220 *X8781-223		NO NO X8781-221 *X8781-224		NC/NO NC/NO X8781-241		1-Green Flat *1-Red Flat 1-Red Mushroom	Start-On Stop-Off Forward-Up
 2-Button and Light	NO NC X8781-524 With box ( $\frac{3}{4}$ " conduit hub)		NO NC X8781-525 For surface mounting			1-Green Flat 1-Red Flat 1-Red Mushroom 1-Red Lens 1-Green Lens	Start-On Stop-Off Running-On	
 3-Button	NC/NO NC/NO NC X8781-350 With box ( $\frac{3}{4}$ " conduit hub)		NC/NO NC/NO NC X8781-351 For surface mounting			1-Green Flat 1-Red Flat 1-Red Mushroom	Forward-Up Reverse-Down Raise-Close Fast-Start High-Stop Slow-Low Jog-Stop	
 3-Button Door Opener	NO NO NC X8781-352 With box ( $\frac{3}{4}$ " conduit hub)					1-Green Flat 1-Red Flat 1-Red Mushroom	Forward-Up Reverse-Down Raise-Close Fast-Start High-Stop Slow-Low Jog-Stop	

Switch Ratings	AC Voltage	Normal Load Break	Inrush And Int. Capacity	Continuous	DC Voltage	Normal Load Break	Inrush And Int. Capacity	 Individual switch units can be "stacked," as illustrated, on all Flexitite push-button stations to provide any required circuitry.
	110/115	6.0	60	10	115/125	1.1	1.1	
	*125/250	15A	82A/60A	15A				
	220/250	3.0	30	10	230/250	5.5	5.5	
	440/480	1.5	15	10	550/600	20	20	
550/600	1.2	12	10					

**NOTES:** 1) Lamps supplied with Flexitite switches are rated 125 Volts or 250 Volts.  
 2) 1-Button, 1-Button and Light, and 2-Button, standard FS or FD wiring boxes.  
 \* This voltage applies to P/N X8781-223 and X8781-224.  
 \*\* Not included on P/N X8781-223 and X8781-224.

## Parts and Accessories



**Cast aluminum wiring box for 2-Button and light and 3-Button Flexitites.**



**Corrosion resistant wiring box for 1-Button, and 2-Button Flexitites.**

Part No.	Description	Part No.	Description
325457-1	One $\frac{3}{4}$ " Conduit Hub	3316157-1	Two $\frac{1}{2}$ " Knock Outs
325457-2	One 1" Conduit Hub	3316157-2	Two $\frac{3}{4}$ " Knock Outs

Part No.	Description
315,031-1	125 V. Lamp
315,031-2	250 V. Lamp
A314,422-3	Lamp Holder Assembly
A314,999-1	N/O Switch
A314,999-2	N/C Switch
A315,028-2	Red Lens
A315,028-4	Green Lens
RX8781-10	Parts Kit for 1-Button and Light
RX8781-220	Parts Kit for 1- and 2-Button
RX8781-350	Parts Kit for 3-Button
RX8781-352	Parts Kit for X8781-352
RX8781-520	Parts Kit for 2-Button and Light

NOTE: Refer to price list for identification of stock items.





# Attachable Pendant Switches

## Pistol Grip

Completely neoprene encased, this switch features an integral handle for easy one-hand operation of small hoists. The replaceable 250 Volt, 15 Amp., Up-Down-Off, toggle switch is available as either maintained or momentary contact. A reinforced eye on the switch cover permits attachment of an external strain chain. The entire assembly is weathertight and corrosion resistant for use anywhere.



## Ordering Procedure

Contact Style	Part Number
Momentary with guard	X8471-9
Maintained with guard	X8471-8

(Applicable Cable Sizes: #14-3/C, #16-3/C 50)

## Small Single Button Switch

Neoprene housing protects both switch unit and operator from electrical and physical hazards. Seals out dust, lint, oils and chemicals. Bright yellow color provides high visibility. Easily assembled with minimum maintenance.

Contact Style	Switch Rating	Cable Size	Part Number
Momentary Switch	20A 480V A.C. 25A 250V D.C.	# 16 2/C # 16 3/C # 18 3/C	X8932-3

NOTE: Refer to price list for identification of stock items.

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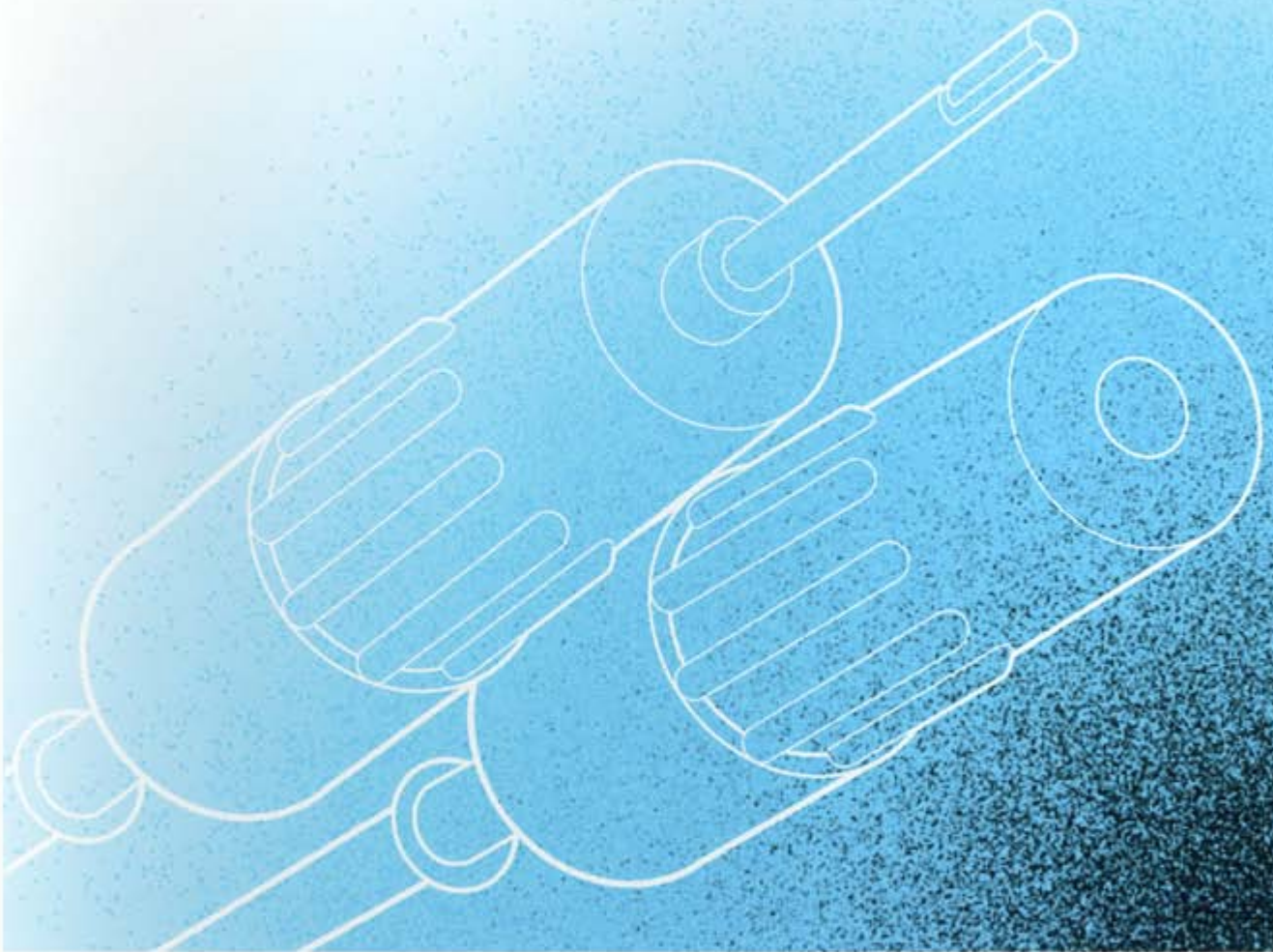
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**Crouse-Hinds Molded Products**  
**Push-Lock Connectors**



**COOPER** Crouse-Hinds



# Crouse-Hinds® Push-Lock Connectors for heavy load, direct-current applications.

## Electrical Parameters

Single Contact, #2 AWG through  
750 MCM Conductor. Up to 120 Volt;  
775 Amps; 600 Volt, 425 Amps; 5000  
Volt, 540 Amps.

A highly reliable locking connector developed primarily for heavy load, direct-current applications such as welding or heavy equipment. The Push-Lock Connector provides a low resistance electrical connection that can be locked in place or released with a twist of the wrist. Male and female plugs may be used together in line or mated with easy-to-install terminal back receptacles.

## Resilient Neoprene Construction

Neoprene molding over heavy contacts withstands heavy physical abuse; will not shatter, break, or crack.

## Quick, Simple Locking Device

A key-way in the male contact engages a pin in the female socket. With a twist of the wrist, the plug locks in place preventing accidental disconnects.

## Sealed Against Contaminants

Neoprene shoulder around contact fits tightly into a recess in the female assembly effectively sealing out dust, oil, and water. Molded-to-cable plugs are sealed at the rear by continuous vulcanization to the cable. Attachable designs utilize a tight fitting neoprene sleeve further reinforced by an adjustable metal clamp.

## Corrosion Resistant

Neoprene construction is unaffected by common industrial environments such as oils, light acids, and moisture.

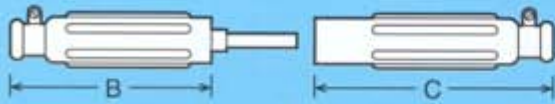
## Easy Installation

Receptacles and attachable plugs utilize a terminal back design providing for easy wiring.

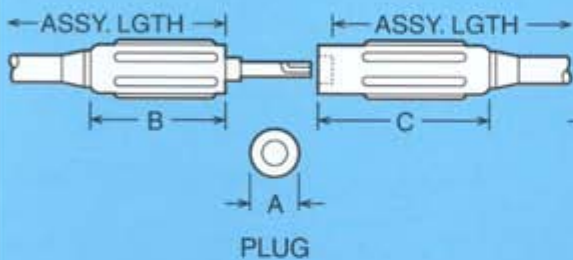


# Push-Lock Connectors

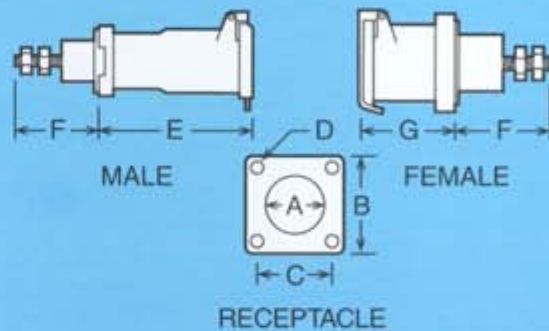
## ATTACHABLE



## MOLDED-TO-CABLE



## WITH COVER



Electrical Data		Dimensions (Approx. Inches)			Part Numbers			Part Numbers									
Max. AWG	Max. Amp.	A	B	C	Assy. Lgth.	Male	Female	Male	Female		A	B	C	D	E	F	G
<b>Attachable 600 volt</b>																	
2	110	1 <sup>3</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>4</sub>	5 <sup>9</sup> / <sub>16</sub>	Attach.	X8168-3	X8168-2	X8168-14	X8168-10	Covered	1 <sup>1</sup> / <sub>4</sub>	2	1 <sup>1</sup> / <sub>2</sub>	7 <sub>32</sub>	4 <sup>2</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>16</sub>
2/0	175	1 <sup>5</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>8</sub>	Attach.	X8169-3	8169-4	X8169-31	X8169-17	Covered	1 <sup>1</sup> / <sub>2</sub>	2 <sup>5</sup> / <sub>8</sub>	2	9 <sub>32</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>
4/0	235	1 <sup>7</sup> / <sub>8</sub>	6 <sup>15</sup> / <sub>16</sub>	7 <sup>3</sup> / <sub>8</sub>	Attach.	X8170-1	X8170-2	X8170-36	X8170-35	Covered	1 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	2	9 <sub>32</sub> <sup>M</sup> 7 <sub>32</sub>	5 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>7</sup> / <sub>8</sub>
4/0	235	1 <sup>7</sup> / <sub>8</sub>	6 <sup>15</sup> / <sub>16</sub>	9 <sup>9</sup> / <sub>16</sub>	Attach.	X8567-10	X8567-18		X8567-23	Covered	3 <sup>7</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>16</sub>	3	9 <sub>32</sub>		8 <sup>5</sup> / <sub>8</sub>	1 <sup>15</sup> / <sub>16</sub>
						Male contact shrouded											
For welding applications, the above will carry the same load as those listed below for corresponding wire sizes.																	
<b>Molded to cable up to 125 volt welding</b>																	
2/0	375	1 <sup>1</sup> / <sub>2</sub>	4 <sup>3</sup> / <sub>16</sub>	5 <sup>3</sup> / <sub>16</sub>	45"	X8165-4	X8165-5	X8169-31	X8169-17	Covered	1 <sup>1</sup> / <sub>2</sub>	2 <sup>5</sup> / <sub>8</sub>	2	9 <sub>32</sub>	5 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>
4/0	550	1 <sup>3</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>	45"	X8166-6	X8166-3	X8170-36	X8170-35	Covered	1 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	2	9 <sub>32</sub> <sup>M</sup> 7 <sub>32</sub>	5 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>7</sup> / <sub>8</sub>
<b>Molded to cable 5000 volt</b>																	
2	110	1 <sup>3</sup> / <sub>8</sub>	4	4 <sup>1</sup> / <sub>4</sub>	24"	X8173-1	X8173-2		X8173-13	Covered	1 <sup>1</sup> / <sub>2</sub>	2 <sup>5</sup> / <sub>8</sub>	2	9 <sub>32</sub>	2 <sup>17</sup> / <sub>32</sub>	2 <sup>1</sup> / <sub>2</sub>	
2/0	175	1 <sup>5</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>4</sub>	18"	X8174-4	X8174-3										

NOTE: Refer to price list for identification of stock items.



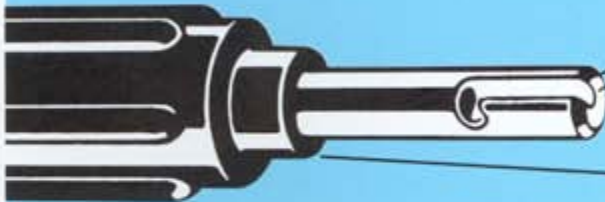
# Typical Applications

- Welding leads
- Portable distribution centers
- Heavy mobile equipment
- Power shovels

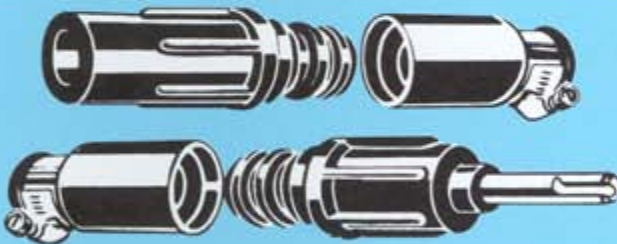


## MOLDED-TO-CABLE

Both the 125 Volt and the 5000 Volt rating Push Lock Plugs are furnished permanently molded to a short length of cable.



- A. A slotted key-way in the male contact engages a pin in the female socket. A slight twist of the wrist locks them together into a positive, vibration-proof connection that can't become accidentally disengaged.
- B. A neoprene shoulder around the base of the male contact fits tightly into a recession around the female socket functioning similar to a "cork in the bottle" to seal out dirt, dust, and moisture.



## ATTACHABLE TYPE

The 600 Volt rating Push Lock is offered as an attachable unit. It can be assembled to any desired length of cable by the user. The conductor is secured into the contact chamber by a set screw. The wiring area is then sealed by a neoprene sleeve and an adjustable clamp assures a positive fit between sleeve and cable.



## HINGED COVER

Predrilled, cast receptacles are available with protective caps. The spring-loaded caps seal the interior of the receptacle against dirt and dust when the plug is disengaged. A terminal back wiring arrangement simplifies installation.



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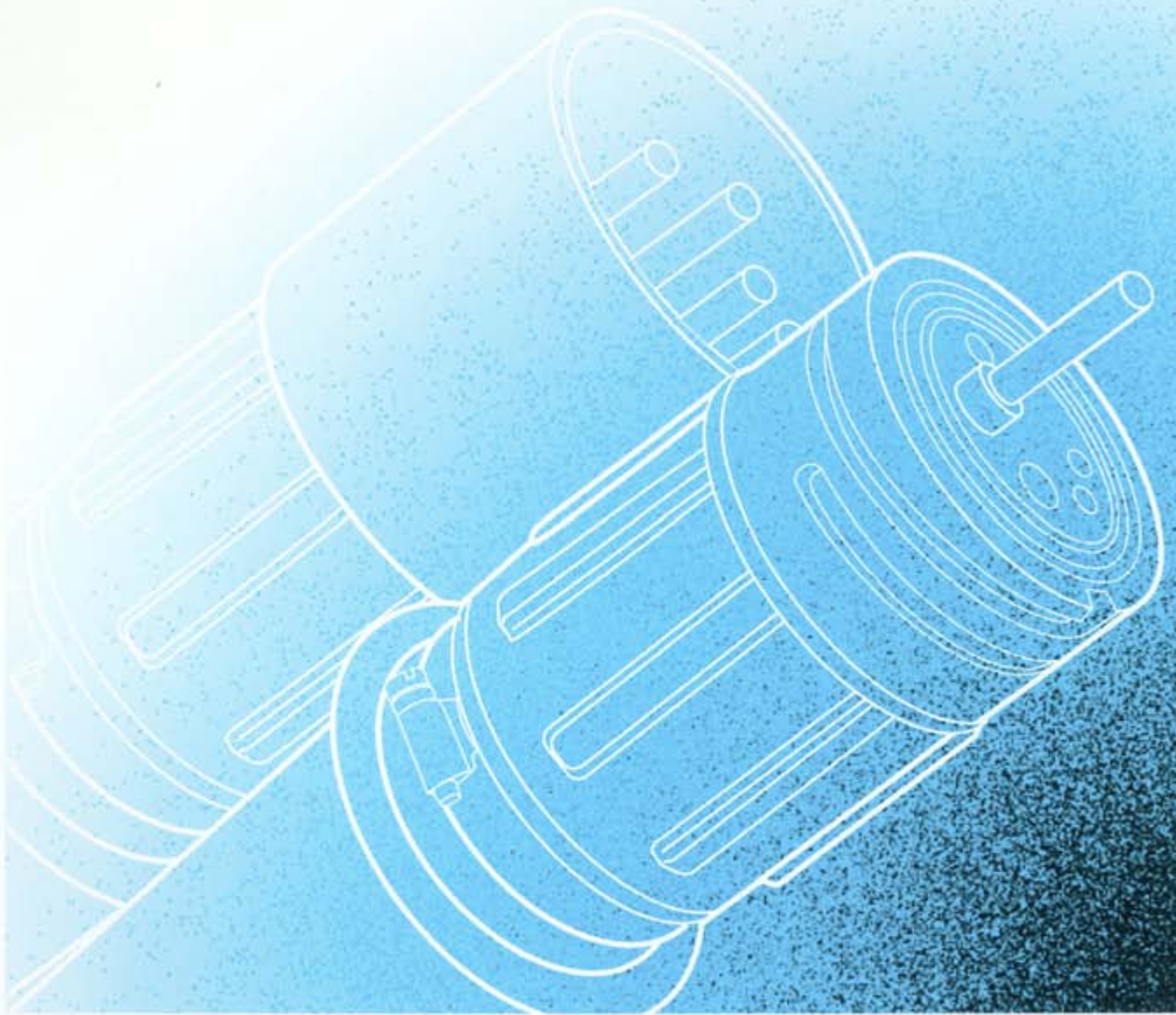
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Crouse-Hinds Molded Products

1000 Volt

Quik-Loc™ Connectors



**COOPER** Crouse-Hinds



# RUGGED CROUSE-HINDS 1000 VOLT QUIK-LOC™ CONNECTORS

Not Interchangeable With 600 Volt Quik-Loc Connectors



## Electrical Parameters 3 power ground and 2 pilot contacts, #8 through 500 MCM cable up to 1000 Volts; 500 Amps.

The new medium voltage Quik-Loc connector was designed for service under the most severe mining conditions. The resilient elastomeric molded body along with a new uniquely grounded coupling provide a tough, watertight, corrosion-resistant, practically indestructible connection.

### Watertight

Compression fit of elastomeric components and cable hugging grommet provide a moisture tight seal. Positive water seal between mated connectors is provided by an "O" ring-type seal molded to the connector face. A double seal is provided by elastomeric shoulders around each male contact which fit like a cork within the female socket.

### Quick Disconnect

Couplers with pin and groove design revolving on low friction ball bearings permit positive engagement or disengagement in just 3/4 turn. Acetal sealing rings under coupler protect grounding mechanism and bearings from dirt and grime . . . make coupler easier to rotate.

### Extra Strong Contact to Cable Connection

Heavy "D" stock contact provides twice the threads for a better connection. Plated contacts resist corrosion, provide better electrical connection and reduce mating forces.

### Field Attachable

Quick field assembly, requires no special tools. Color labeled wiring

terminals indicate proper conductor locations. Set screws hold conductors in place; clamps secure protective sleeve over terminal area.

### Safe

Unique, positively grounded coupler and heavy elastomeric molded body and sleeve provide electrical protection. A reversed ground pin assures positive polarization.

### Corrosion Resistant

Molded elastomeric components, manganese bronze couplings, stainless steel clamps, and plated copper alloy contacts are unaffected by most chemicals and acids.

Sturdy manganese/bronze couplings shrug off rough handling and abuse. Pin and groove threads engage or disengage in just 3/4 turn; won't cross thread or burr. (Acme thread on 500 mcm body size)

One piece elastomeric protective sleeve seals wiring area from dirt, grit, moisture

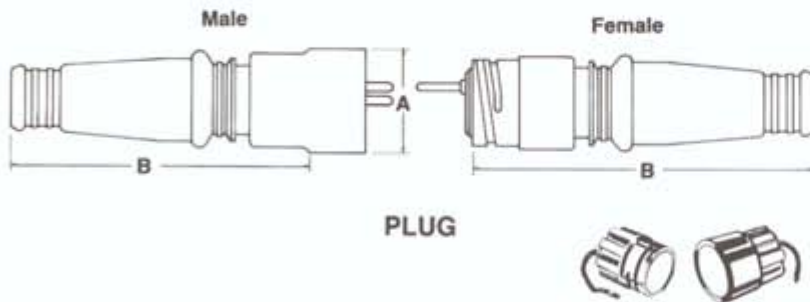


Copper alloy contacts provide low resistance electrical connection. Firmly bonded in molded body; won't jar loose.

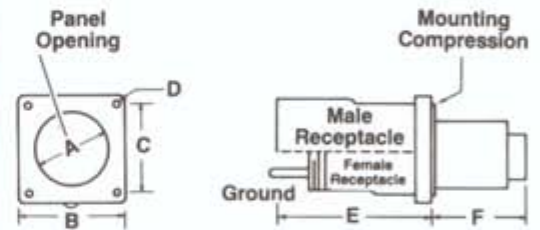
Unique double-wiping continuous coupler ground. (Patent Pending)

Acetal sealing rings

Non-slipping, worm gear driven clamps provide a watertight fit between protective sleeve, terminal area, and cable. Stainless steel components resist corrosion.



PLUG



DUST TIGHT RECEPTACLE

**FOR A.C. 3 POWER + 1 GROUND WITH PILOT CIRCUIT CONTACTS**

Max. Cable Size AWG	90°C, 1000 V RATINGS		Dimensions (Approximate Inches)		PLUG Part Numbers		PROTECTIVE CAP For Plug or Receptacle		RECEPTACLE Part Numbers		Dimensions (Approx. Inches)					
	Cable Only	Conn. Only †	A	B	Male	Female	For Male	For Female	Male	Female	A	B	C	D	E	F
8	59	75	3-5/8	11-13/16	568024-1	568024-2	3325656-2	3326195	568024-3	568024-4	2	3-3/8	2-3/4	9/32	5-5/16	4
4	104	125	3-7/8	13	568025-1	568025-2	3325656-4	3326196	568025-3	568025-4	2-15/16	3-5/8	2-7/8	9/32	5-7/16	4-1/2
2	138	160	4-3/16	14-1/16	568026-1	568026-2	3325656-6	3326197	568026-3	568026-4	2-5/8	4	3-1/4	9/32	5-11/16	4-15/16
2/0	215	225	4-5/8	13-15/16	568027-1	568027-2	3325656-8	3326198	568027-3	568027-4	3	4-1/2	3-1/2	11/32	6-3/16	5-1/16
4/0	287	325	6	19-9/16	568028-1	568028-2	3325656-10	3326199	568028-3	568028-4	4	6	4-3/4	13/32	6-15/16	6
500 MCM	487	500	7-5/16	23-5/16	568029-1	568029-2	3325656-11	3325656-12	568029-3	568029-4	5	7-1/4	5-7/8	17/32	8-5/8	6-1/2

†This is connector rating only. Operating rating must be based on cable capacity.

NOTE: Refer to price list for identification of stock items.



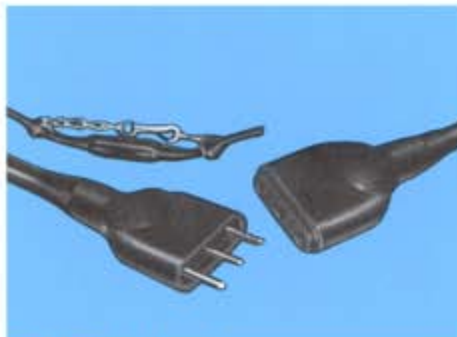
# CROUSE-HINDS MOLDED PRODUCTS

072



## Change-Out™ Connectors

2 to 8 contacts, #18 AWG through #10 AWG conductors, up to 600 Volts, 25 Amps. Eliminate time consuming rewiring of equipment on the job. Such items as limit switches, motors, etc. can be quickly replaced by simply unplugging the defective unit and plugging in a prewired spare. Wire portable equipment just once, then connect it and disconnect it at will. Rugged, sealed construction allows use in toughest industrial environment. Change-Out Connectors are factory molded to 6 ft., 12 ft., and 18 ft. of oil resistant 600 Volt cable. Receptacles furnished with pipe thread mounting shell. **See Bulletin COC-0695**



## Oval Connectors

2 to 5 contacts, #14 AWG through #2/o AWG conductors, up to 600 Volts, 150 Amps. A heavy-duty, molded-to-cable connector particularly well suited for most power applications. Extremely rugged elastomeric construction will absorb maximum punishment. Its oval shape permits it to lie flat creating minimum obstruction in work areas. Receptacles have terminal backs for easy wiring and are available with or without spring-loaded sealing covers. The heavy-duty castings can be either panel mounted or furnished with a wiring box. Mating male and female plugs molded to standard lengths of cable. **See Bulletin 4579**



## Round Connectors

1 to 26 contacts, #18 AWG through #4/o AWG conductors, up to 600 Volts, 150 Amps. (multipole); 5000 Volts, 235 Amps. (single pole). A broad line of tough, compact, molded-to-cable connectors for a wide range of power and control applications that require a quick disconnect. The complete line includes male and female plugs and mating receptacles, both with and without protective caps. All connectors over four contacts are polarized for positive mating. Male and female plugs are available in three standard cable lengths. **See Bulletin 4572**



## Vibration-Free Lamp Socket

Molded elastomeric lamp socket prolongs bulb life. It fits standard round 4 inch wiring boxes. Lamp guard and corrosion resistant boxes are also available. **See Bulletin 4570**

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## Push-Lock™ Connectors

Single contact, #2 through 750 MCM conductor up to 125 Volts, 775 Amps; 600 Volts, 425 Amps.; 5000 Volts, 540 Amps. A highly reliable locking connector developed primarily for heavy load, direct-current applications such as welding or heavy equipment. The Push-Lock connector provides a low resistance electrical connection that can be locked in place or released with a twist of the wrist. Male and female plugs may be used together in line or mated with easy-to-install terminal back receptacles. **See Bulletin PLC-777**



## Vulcanizers

Portable and Semi-portable Cable vulcanizers — Supplies — Molds. A semi-portable, 3000 watt cable vulcanizer with splicing capacities of up to four inches O.D., 25-ton closing pressures and automatic heat control. The portable vulcanizer weighs only 16 pounds. Its two 500 watt heaters automatically maintain molding temperatures. Splice capacity of up to 1-5/8 inches. **See Bulletin 4577**

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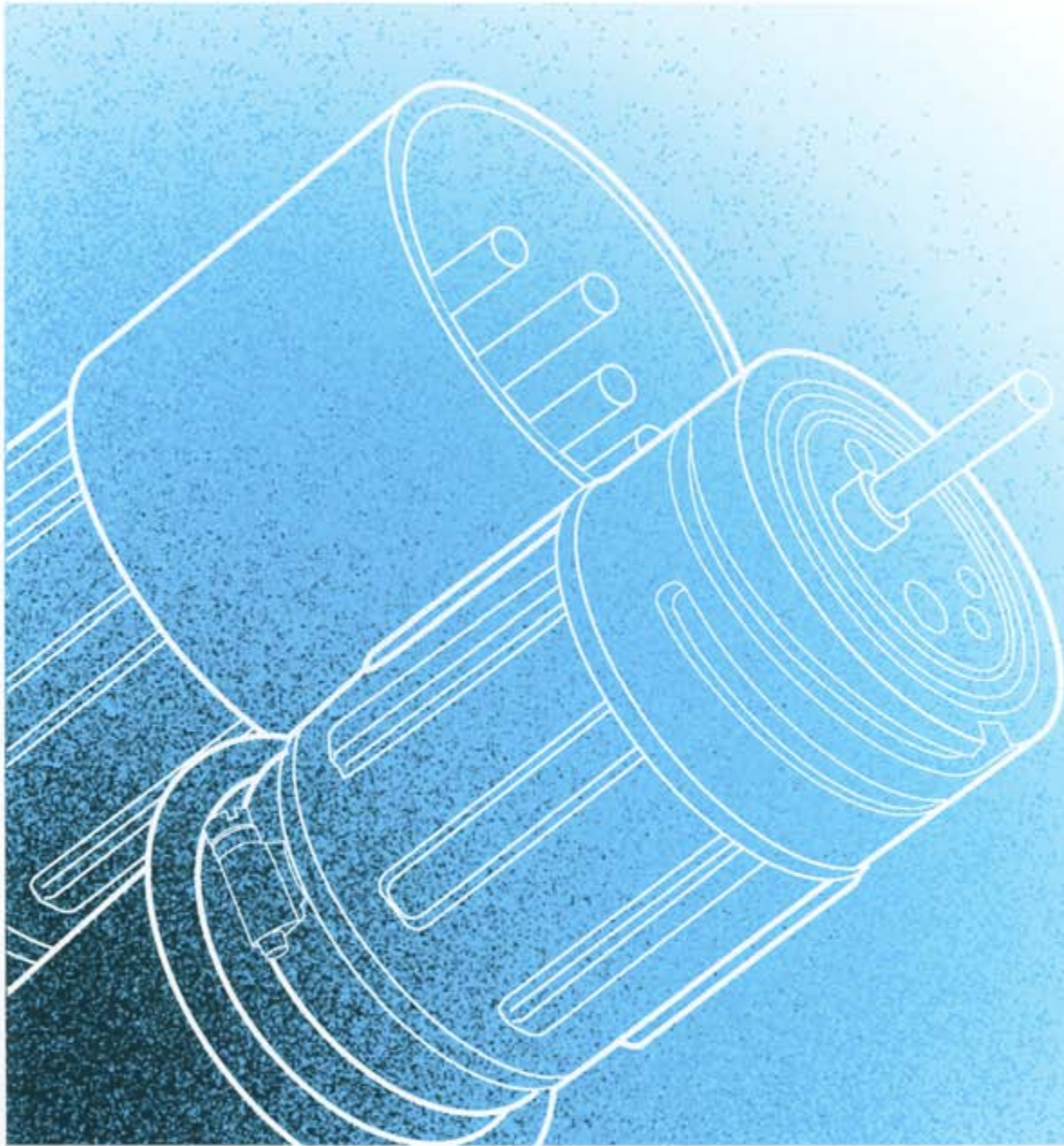
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**Crouse-Hinds Molded Products**  
**Quik-Loc™ Connectors**



**COOPER** Crouse-Hinds

# Quik-Loc Connectors meet the requirements of the Mine Health and Safety Act for low voltage circuits.

## Electrical Parameters

3 or 4 contacts; with or without  
pilot circuit contacts. #8 AWG  
through 500 MCM cable.

Up to 600 Volts; 625 Amps.

The Quik-Loc Connector was designed for service under the most severe mining conditions. Constructed of resilient neoprene and sturdy neoprene covered alloy castings, it is tough, watertight, corrosion-resistant — practically indestructible.

**Watertight** Compression fit of neoprene components and cable hugging grommet provide a moisture-tight seal. Positive water seal between mated connectors is assured by an "O" ring-type seal molded to the connector face. A double seal is provided by neoprene shoulders around each male contact which fit like a cork within the female socket.

**Quick Disconnect** Couplers with pin and groove design revolving on low friction ball bearings permit positive engagement or disengagement in just 3/4 turn.

**Field Attachable** Quick field assembly requires no special tools. Color coded wiring terminals indicate proper conductor locations. Set screws hold conductors in place; clamps secure protective sleeve over terminal area.

**Safe** All metal components are thoroughly insulated from "live" portions of the connector by a barrier of molded neoprene. A reversed ground pin assures positive polarization.

**Corrosion Resistant** Molded neoprene components, neoprene covered alloy couplings, stainless steel clamps, and plated brass contacts are unaffected by most chemicals and acids.

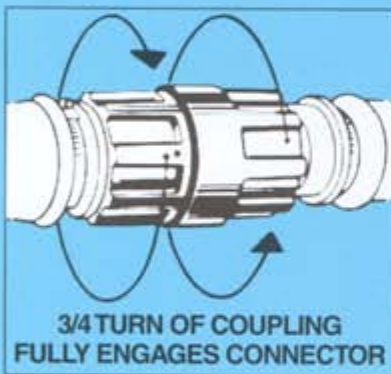
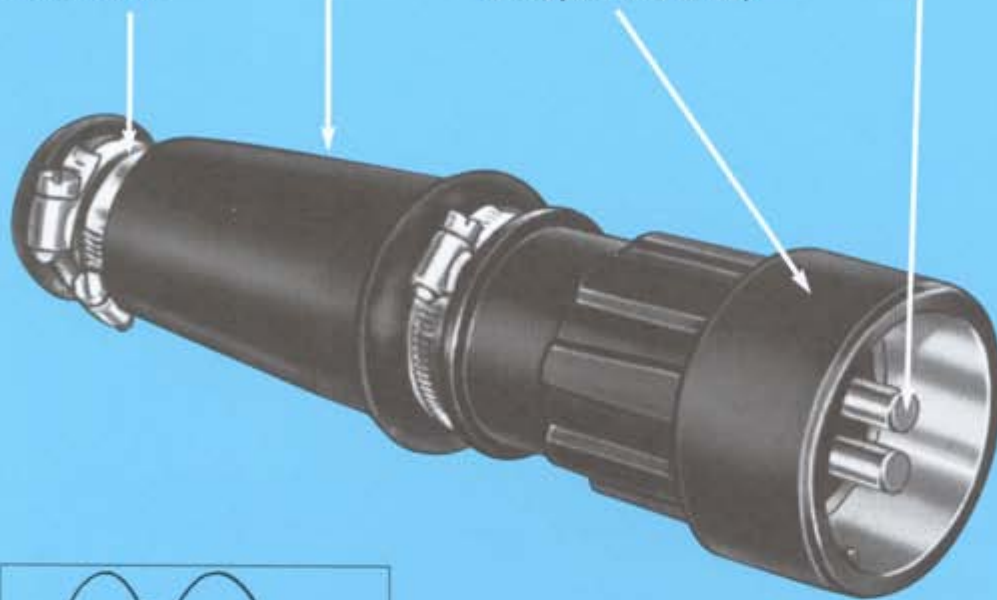


Non-slipping, worm gear driven clamps assure a watertight fit between protective sleeve, terminal area and cable. Stainless steel components resist corrosion.

One-piece neoprene protective sleeve seals wiring area from dirt, grit, moisture.

Sturdy neoprene covered metal couplings shrug off rough handling and abuse. Pin and groove threads engage or disengage in just 3/4 turn; won't cross thread or burr. (Largest model has double pitch Acme thread.)

Plated bronze contacts provide low resistance electrical connection. Firmly bonded in molded body; won't jar loose.



Neoprene shoulder fits snugly in female socket recess, sealing out water.

Molded-on "O" ring prevents entrance of water in mated connectors.

Sturdy neoprene covered metal couplings shrug off rough handling and abuse. Pin and groove threads engage or disengage in just 3/4 turn; won't cross thread or burr. (Largest model has double pitch Acme thread.)

Couplers revolve freely on replaceable ball bearings.

Non-slipping, worm gear driven clamps assure a watertight fit between protective sleeve, terminal area and cable. Stainless steel components resist corrosion.



Body and protective sleeve are threaded to assure a tight slip-proof assembly.

Color coded wiring terminals indicate proper wiring locations.

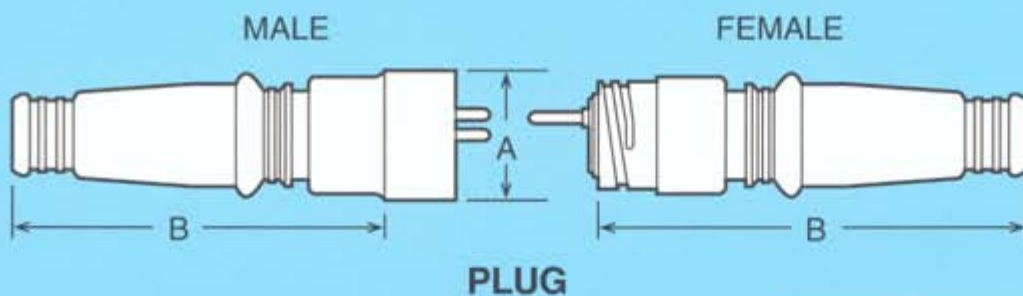
Protective wiring barriers insulate individual conductors.

Flexible grommet adapts sleeve to varying cable diameters.





# Quik-Loc Connectors



FOR D.C.

FOR A.C.

Max. Cable Size AWG	Sug-gested Cable Rating	Connector Rating Only † Amps (600 V.)	DIMENSIONS (Approximate Inches)		PART NUMBER		PROTECTIVE CAP For Plug or Receptacle		PART NUMBER	
			A	B	Male	Female	For Male	For Female	Male	Female
<b>2 POWER + 1 GROUND WITHOUT PILOT CIRCUIT CONTACTS</b>										
4	70	125	3 <sup>5</sup> / <sub>8</sub>	11 <sup>13</sup> / <sub>16</sub>	X8323-4	X8323-3	3325656-2	3325656-1	X8323-13	X8323-8
2	95	160	3 <sup>5</sup> / <sub>8</sub>	11 <sup>13</sup> / <sub>16</sub>	X8324-2	X8324-1	3325656-2	3325656-1	X8324-13	X8324-8
2/0	150	225	3 <sup>7</sup> / <sub>8</sub>	13 <sup>1</sup> / <sub>16</sub>	X8325-3	X8325-2	3325656-4	3325656-3	X8325-13	X8325-8
4/0	200	325	4 <sup>5</sup> / <sub>8</sub>	13 <sup>15</sup> / <sub>16</sub>	X8326-1	X8326-2	3325656-8	3325656-7	X8326-13	X8326-8
400 MCM	280	500	6	19 <sup>9</sup> / <sub>16</sub>	X8327-1	X8327-2	3325656-10	3325656-9	X8327-11	X8327-6
<b>2 POWER + 1 GROUND WITH PILOT CIRCUIT CONTACTS</b>										
8	40	75	3 <sup>5</sup> / <sub>8</sub>	11 <sup>13</sup> / <sub>16</sub>	X8329-2	X8329-1	3325656-2	3325656-1	X8329-15	X8329-10
4	70	125	3 <sup>5</sup> / <sub>8</sub>	11 <sup>13</sup> / <sub>16</sub>	X8330-3	X8330-4	3325656-2	3325656-1	X8330-16	X8330-12
2	95	160	3 <sup>7</sup> / <sub>8</sub>	13 <sup>1</sup> / <sub>16</sub>	X8331-1	X8331-4	3325656-4	3325656-3	X8331-15	X8331-11
2/0	150	225	4 <sup>3</sup> / <sub>16</sub>	14 <sup>1</sup> / <sub>16</sub>	X8332-1	X8332-8	3325656-6	3325656-5	X8332-16	X8332-13
4/0	200	325	4 <sup>5</sup> / <sub>8</sub>	13 <sup>15</sup> / <sub>16</sub>	X8333-4	X8333-3	3325656-8	3325656-7	X8333-7	X8333-1
300 MCM	240	425	6	19 <sup>9</sup> / <sub>16</sub>	X8334-2	X8334-1	3325656-10	3325656-9	X8334-15	X8334-10
500 MCM	320	625	6 <sup>3</sup> / <sub>4</sub>	22 <sup>3</sup> / <sub>8</sub>	X8335-1	X8335-2	3325656-12	3325656-11	X8335-8	X8335-4
<b>3 POWER + 1 GROUND WITHOUT PILOT CIRCUIT CONTACTS</b>										
8	35	75	3 <sup>5</sup> / <sub>8</sub>	11 <sup>13</sup> / <sub>16</sub>	X8336-3	X8336-2	3325656-2	3325656-1	X8336-13	X8336-8
4	65	125	3 <sup>5</sup> / <sub>8</sub>	11 <sup>13</sup> / <sub>16</sub>	X8337-3	X8337-4	3325656-2	3325656-1	X8337-14	X8337-11
2	90	160	3 <sup>7</sup> / <sub>8</sub>	13 <sup>1</sup> / <sub>16</sub>	X8338-2	X8338-3	3325656-4	3325656-3	X8338-13	X8338-8
2/0	135	225	4 <sup>3</sup> / <sub>16</sub>	14 <sup>1</sup> / <sub>16</sub>	X8339-1	X8339-2	3325656-6	3325656-5	X8339-13	X8339-3
4/0	180	325	4 <sup>5</sup> / <sub>8</sub>	13 <sup>15</sup> / <sub>16</sub>	X8340-5	X8340-4	3325656-8	3325656-7	X8340-2	X8340-10
300 MCM	220	425	6	19 <sup>9</sup> / <sub>16</sub>	X8341-2	X8341-1	3325656-10	3325656-9	X8341-13	X8341-9
<b>3 POWER + 1 GROUND WITH TWO PILOT CIRCUIT CONTACTS</b>										
8	35	75	3 <sup>5</sup> / <sub>8</sub>	11 <sup>13</sup> / <sub>16</sub>	X8343-5	X8343-4	3325656-2	3325656-1	X8343-16	X8343-12
4	65	125	3 <sup>7</sup> / <sub>8</sub>	13	X8344-5	X8344-4	3325656-4	3325656-3	X8344-2	X8344-1
2	90	160	4 <sup>3</sup> / <sub>16</sub>	14 <sup>1</sup> / <sub>16</sub>	X8345-5	X8345-6	3325656-6	3325656-5	X8345-15	X8345-10
2/0	135	225	4 <sup>5</sup> / <sub>8</sub>	13 <sup>15</sup> / <sub>16</sub>	X8346-2	X8346-1	3325656-8	3325656-7	X8346-13	X8346-8
4/0	180	325	6	19 <sup>9</sup> / <sub>16</sub>	X8347-2	X8347-1	3325656-10	3325656-9	X8347-13	X8347-8
400 MCM	250	500	6 <sup>3</sup> / <sub>4</sub>	22 <sup>3</sup> / <sub>8</sub>	X8348-3	X8348-2	3325656-12	3325656-11	X8348-10	X8348-7

† This is connector rating only. Operating rating must be based on cable capacity.

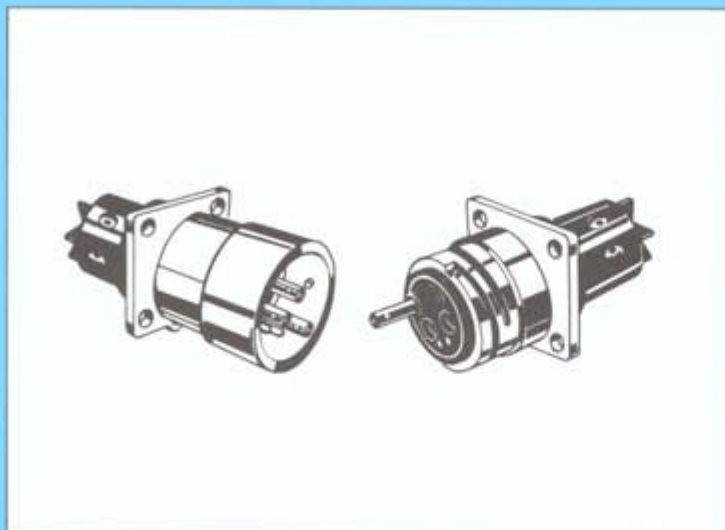
NOTE: Refer to price list for identification of stock items.

Pilot circuit contacts are for 12 AWG cable.





# Quik-Loc Connectors



Receptacles mate with the attachable plugs and are equipped with sleeve-type wiring terminals and molded neoprene wiring barriers. Bronze alloy mounting shells and molded neoprene inserts protect against almost any environment. Receptacles are available as dust tight and for permissible use.



**Protective Cap - Prevents moisture, airborne dust, oils, acids, etc. from collecting on exposed contacts. Packaged separately for easy attachment to plugs and receptacles.**



**Short Circuiting Cap - Used to jumper the pilot circuit in a disengaged connector when series wired control line to other equipment must be closed.**

MOLDED INSERT		PARTS FOR RECEPTACLES			
		MOUNTING SHELL			
		DUST TIGHT		PERMISSIBLE	
Male	Female	For Male	For Female	For Male	For Female
X8323-2	X8323-1	A324289	324088	—	—
X8324-3	X8324-4	A324289	324088	—	—
X8325-4	X8325-1	A324357	324063	—	—
X8326-5	X8326-4	A324232	324059	—	—
X8327-14	X8327-13	A324166	324094	—	—
X8329-4	X8329-5	A324289	324088	A324292	324300
X8330-5	X8330-6	A324289	324088	A324292	324300
X8331-5	X8331-3	A324357	324063	A324350	324353
X8332-7	X8332-5	A324119	324093	A324206	324198
X8333-6	X8333-5	A324232	324059	A324231	324238
X8334-3	X8334-4	A324166	324094	A324174	324170
X8335-11	X8335-10	324095	324065	—	—
X8336-4	X8336-1	A324289	324088	—	—
X8337-6	X8337-7	A324289	324088	—	—
X8338-4	X8338-1	A324357	324063	—	—
X8339-6	X8339-5	A324119	324093	—	—
X8340-3	X8340-6	A324232	324059	—	—
X8341-3	X8341-4	A324166	324094	—	—
X8343-6	X8343-1	A324289	324088	A324292	324300
X8344-16	X8344-15	A324357	324063	A324350	324353
X8345-2	X8345-1	A324119	324093	A324206	324198
X8346-16	X8346-15	A324232	324059	A324231	324238
X8347-16	X8347-15	A324166	324094	A324174	324170
X8348-4	X8348-5	324095	324065	—	—

NOTE: Refer to price list for identification of stock items.

# Quik-Loc Connectors

## Sleeves and Grommets

Listed below are the Sleeve and Grommet Part Numbers which are supplied with each Plug.

PLUG	SLEEVE	GROMMET #1	GROMMET #2	GROMMET #3
X8323	325298	313305-1	313305-2	313305-5
X8324	325298	313305-1	313305-2	313305-5
X8325	325292	313327-1	313327-2	313327-7
X8326	325245	324153-1	324153-2	324153-6
X8327	325271	324089-1	324089-2	—————
X8329	325298	313305-2	—————	—————
X8330	325298	313305-1	313305-2	313305-5
X8331	325292	313327-2	313327-3	313327-6
X8332	325286	324044-1	324044-2	324044-5
X8333	325245	324153-1	324153-2	324153-6
X8334	325271	324089-1	324089-2	—————
X8335	325305	324024-4	324024-5	—————

PLUG	SLEEVE	GROMMET #1	GROMMET #2	GROMMET #3
X8336	325298	313305-2	—————	—————
X8337	325298	313305-1	313305-2	—————
X8338	325292	313327-1	313327-2	—————
X8339	325286	324044-1	324044-2	—————
X8340	325245	324153-1	324153-2	—————
X8341	325271	324089-1	324089-2	—————
X8343	325298	313305-1	—————	—————
X8344	325292	313327-2	313327-3	—————
X8345	325286	324044-3	324044-4	—————
X8346	325245	324153-2	324153-3	—————
X8347	325271	324089-2	324089-3	—————
X8348	325305	324024-4	324024-5	—————

### 1. For Round Cable

Select Grommet that adapts I.D. of sleeve (supplied on plug) to O.D. of cable being used

Sleeve Part Number	Fits Cable (W/O Grommet)		EXTENSION RANGE OF "ADAPTER GROMMETS" FOR SLEEVES LISTED AT LEFT									
	From	To	Grommet Number	Range	Grommet Number	Range	Grommet Number	Range	Grommet Number	Range	Grommet Number	Range
325298	1.500	1.250	313305-1	1.250 1.000	313305-2	1.000 .750	313305-3	.750 .562	—————	———	—————	———
325292	1.813	1.562	313327-1	1.562 1.312	313327-2	1.312 1.062	313327-3	1.062 .812	313327-4	.812 .625	—————	———
325286	2.000	1.812	324044-1	1.812 1.625	324044-2	1.625 1.437	324044-3	1.437 1.250	324044-4	1.250 1.062	—————	———
325245	2.375	2.125	324153-1	2.125 1.937	324153-2	1.937 1.750	324153-3	1.750 1.562	324153-4	1.562 1.375	—————	———
325271	2.937	2.625	324089-1	2.625 2.312	324089-2	2.312 2.000	324089-3	2.000 1.812	—————	———	—————	———
325305	3.281	3.000	324024-4	3.000 2.812	324024-5	2.812 2.625	324024-6	2.625 2.531	324024-2	2.531 2.312	324024-3	2.312 2.125

### 2. For Twin W & Twin G Cable

Select Grommet that adapts I.D. of sleeve (supplied on plug) to O.D. of cable being used

(†) WIRE SIZE	#8		#6		#4		#3		#2		#1		#1/0		#2/0		#3/0		#4/0	
CABLE DIMENSIONS	.51 X .84	.51 X .92	.56 X .93	.56 X 1.02	.61 X 1.05	.61 X 1.15	.68 X 1.14	.68 X 1.26	.73 X 1.24	.73 X 1.35	.81 X 1.40	.81 X 1.55	.93 X 1.51	.93 X 1.67	.99 X 1.63	.99 X 1.85	1.03 X 1.77	1.03 X 2.00	1.10 X 1.89	1.10 X 2.10
SLEEVE	PART NOS. ON GROMMETS																			
325298	313305-4				313305-5															
325292					313327-6				313327-7											
325286													324044-5							
325245																	324153-5		324153-6	

(†) Major and minor axis of "Twin W" and "Twin G" type cables.



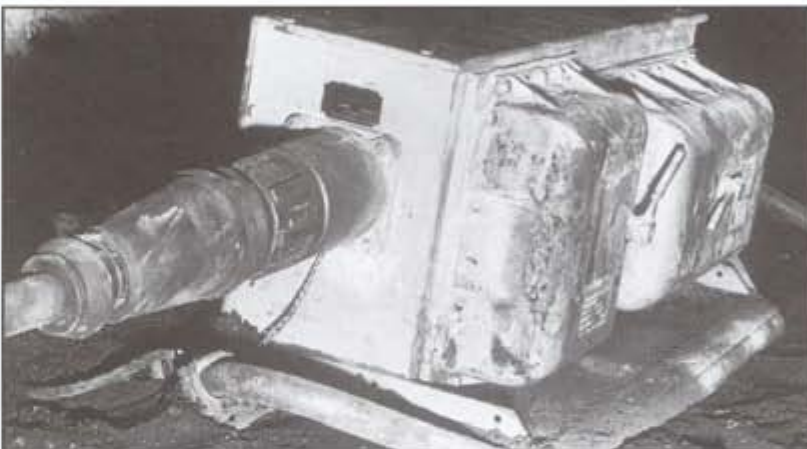
6075

# Typical Applications

- Drills
- Cutters
- Shuttle Cars
- Power Distribution
- Slusher Hoists
- Motors
- Heavy Equipment
- Ship-to-shore

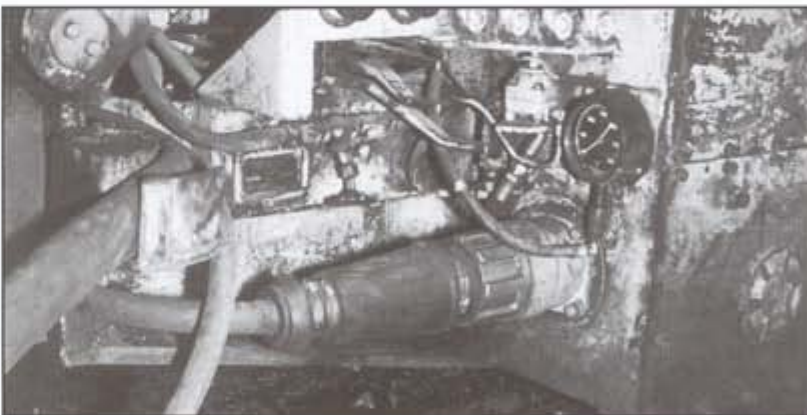


Quik-Loc Connectors fully engage or disengage in only 3/4 turn of coupling. Largest will handle up to 500 MCM cable.



A highly reliable Quik-Loc Connector supplies up to 450 Amps on the power side of a portable distribution center.

*Distributed by:*



Portable mining equipment receives power through rugged Quik-Loc Connector.

**COOPER** Crouse-Hinds

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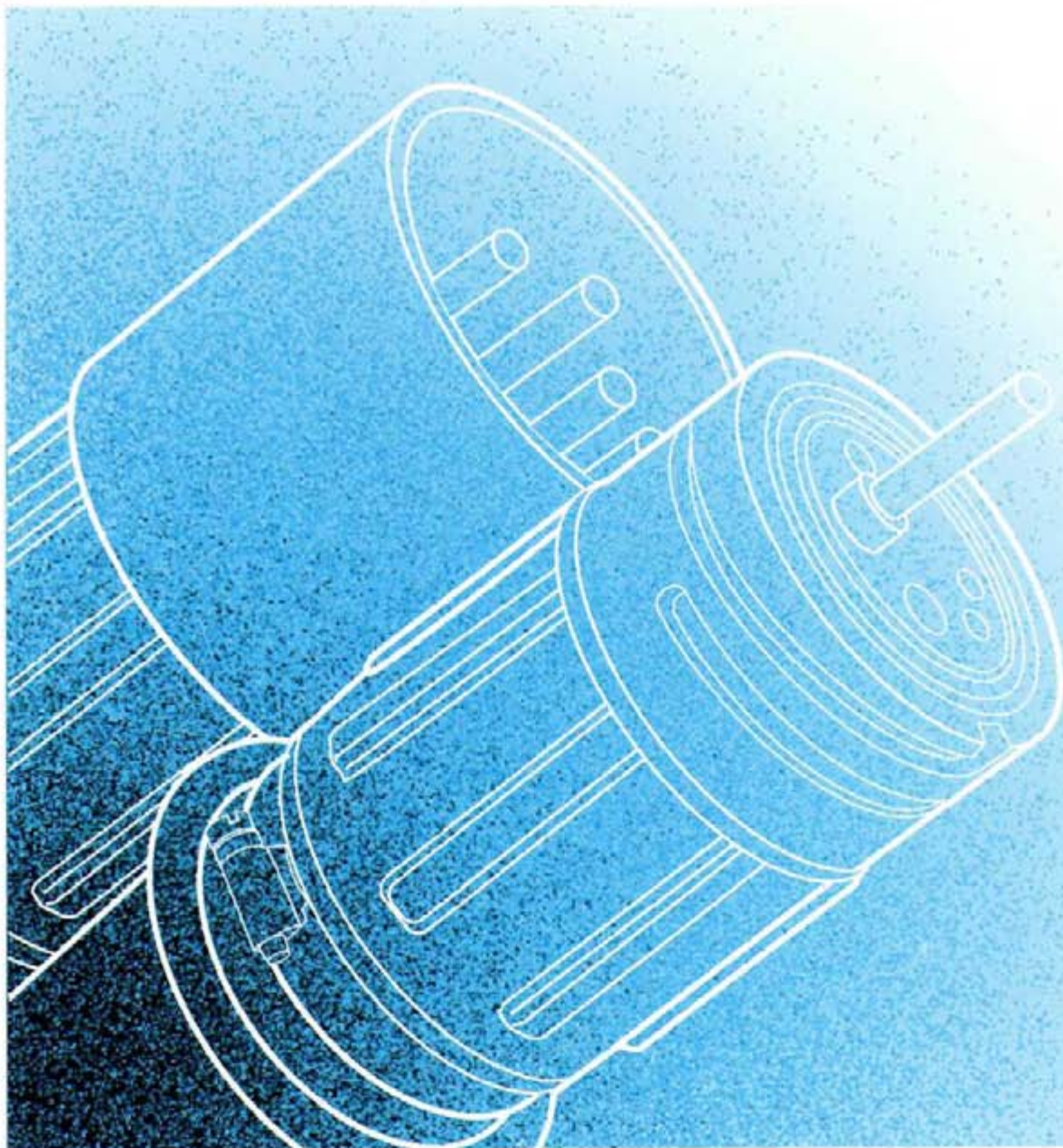
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**Crouse-Hinds Molded Products**  
**Quik-Loc™ Connectors**

*Mining Applications*



**COOPER** Crouse-Hinds



# Quik-Loc Connectors meet the requirements of the Mine Health and Safety Act for low voltage circuits.

## Electrical Parameters

3 or 4 contacts; with or without  
pilot circuit contacts. #8 AWG  
through 500 MCM cable.

Up to 600 Volts; 625 Amps.

The Quik-Loc Connector was designed for service under the most severe mining conditions. Constructed of resilient neoprene and sturdy neoprene covered alloy castings, it is tough, watertight, corrosion-resistant — practically indestructible.

**Watertight** Compression fit of neoprene components and cable hugging grommet provide a moisture-tight seal. Positive water seal between mated connectors is assured by an "O" ring-type seal molded to the connector face. A double seal is provided by neoprene shoulders around each male contact which fit like a cork within the female socket.

**Quick Disconnect** Couplers with pin and groove design revolving on low friction ball bearings permit positive engagement or disengagement in just 3/4 turn.

**Field Attachable** Quick field assembly requires no special tools. Color coded wiring terminals indicate proper conductor locations. Set screws hold conductors in place; clamps secure protective sleeve over terminal area.

**Safe** All metal components are thoroughly insulated from "live" portions of the connector by a barrier of molded neoprene. A reversed ground pin assures positive polarization.

**Corrosion Resistant** Molded neoprene components, neoprene covered alloy couplings, stainless steel clamps, and plated brass contacts are unaffected by most chemicals and acids.

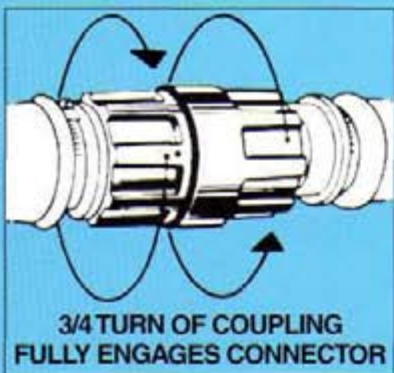
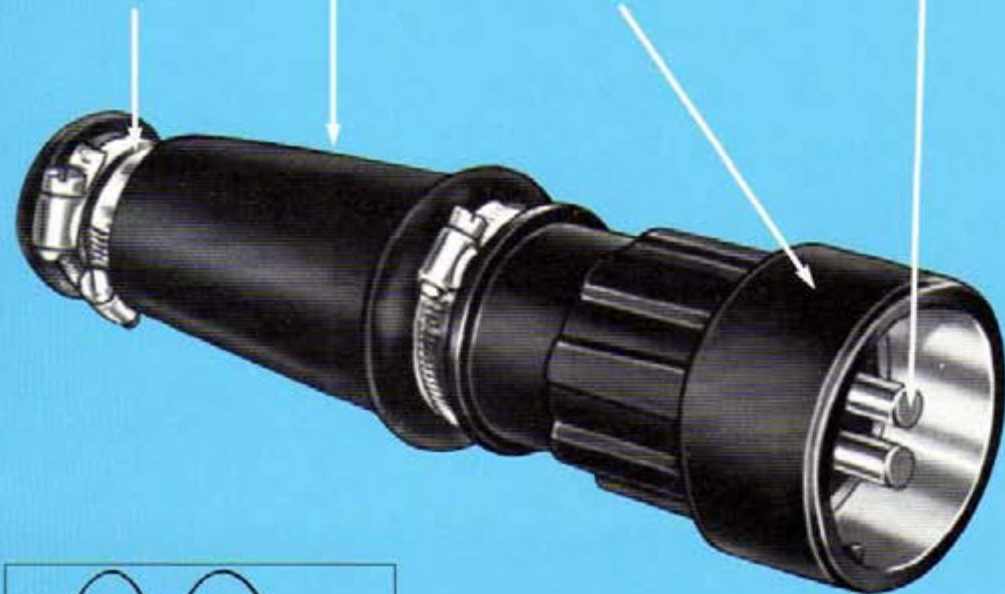


Non-slipping, worm gear driven clamps assure a watertight fit between protective sleeve, terminal area and cable. Stainless steel components resist corrosion.

One-piece neoprene protective sleeve seals wiring area from dirt, grit, moisture.

Sturdy neoprene covered metal couplings shrug off rough handling and abuse. Pin and groove threads engage or disengage in just 3/4 turn; won't cross thread or burr. (Largest model has double pitch Acme thread.)

Plated bronze contacts provide low resistance electrical connection. Firmly bonded in molded body; won't jar loose.



Neoprene shoulder fits snugly in female socket recess, sealing out water.

Molded-on "O" ring prevents entrance of water in mated connectors.

Sturdy neoprene covered metal couplings shrug off rough handling and abuse. Pin and groove threads engage or disengage in just 3/4 turn; won't cross thread or burr. (Largest model has double pitch Acme thread.)

Couplers revolve freely on replaceable ball bearings.

Non-slipping, worm gear driven clamps assure a watertight fit between protective sleeve, terminal area and cable. Stainless steel components resist corrosion.



Body and protective sleeve are threaded to assure a tight slip-proof assembly.

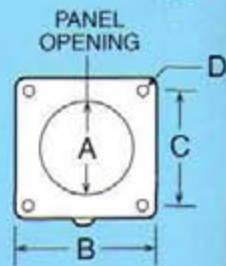
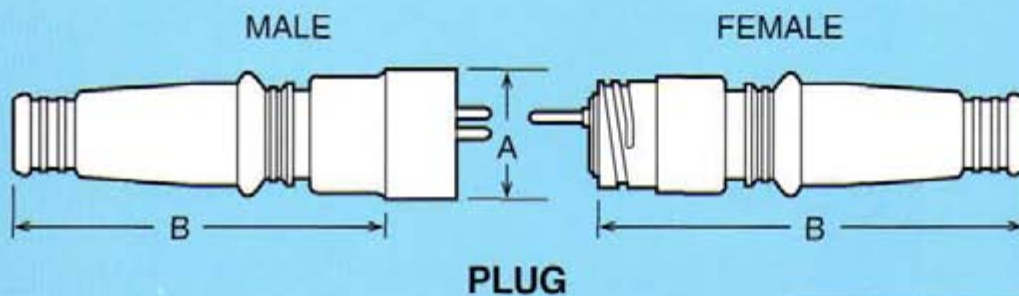
Color coded wiring terminals indicate proper wiring locations.

Protective wiring barriers insulate individual conductors.

Flexible grommet adapts sleeve to varying cable diameters.



# Quik-Loc Connectors



FOR D.C.

FOR A.C.

Max. Cable Size AWG	Sug-gested Cable Rating	Connector Rating Only † Amps (600 V.)	DIMENSIONS (Approximate Inches)		PART NUMBER		PROTECTIVE CAP For Plug or Receptacle		PART NUMBER	
			A	B	Male	Female	For Male	For Female	Male	Female
<b>2 POWER + 1 GROUND WITHOUT PILOT CIRCUIT CONTACTS</b>										
4	70	125	3 <sup>5</sup> / <sub>8</sub>	11 <sup>13</sup> / <sub>16</sub>	X8323-4	X8323-3	3325656-2	3325656-1	X8323-13	X8323-8
2	95	160	3 <sup>5</sup> / <sub>8</sub>	11 <sup>13</sup> / <sub>16</sub>	X8324-2	X8324-1	3325656-2	3325656-1	X8324-13	X8324-8
2/0	150	225	3 <sup>7</sup> / <sub>8</sub>	13 <sup>1</sup> / <sub>16</sub>	X8325-3	X8325-2	3325656-4	3325656-3	X8325-13	X8325-8
4/0	200	325	4 <sup>5</sup> / <sub>8</sub>	13 <sup>15</sup> / <sub>16</sub>	X8326-1	X8326-2	3325656-8	3325656-7	X8326-13	X8326-8
400 MCM	280	500	6	19 <sup>9</sup> / <sub>16</sub>	X8327-1	X8327-2	3325656-10	3325656-9	X8327-11	X8327-6
<b>2 POWER + 1 GROUND WITH PILOT CIRCUIT CONTACTS</b>										
8	40	75	3 <sup>5</sup> / <sub>8</sub>	11 <sup>13</sup> / <sub>16</sub>	X8329-2	X8329-1	3325656-2	3325656-1	X8329-15	X8329-10
4	70	125	3 <sup>5</sup> / <sub>8</sub>	11 <sup>13</sup> / <sub>16</sub>	X8330-3	X8330-4	3325656-2	3325656-1	X8330-16	X8330-12
2	95	160	3 <sup>7</sup> / <sub>8</sub>	13 <sup>1</sup> / <sub>16</sub>	X8331-1	X8331-4	3325656-4	3325656-3	X8331-15	X8331-11
2/0	150	225	4 <sup>3</sup> / <sub>16</sub>	14 <sup>1</sup> / <sub>16</sub>	X8332-1	X8332-8	3325656-6	3325656-5	X8332-16	X8332-13
4/0	200	325	4 <sup>5</sup> / <sub>8</sub>	13 <sup>15</sup> / <sub>16</sub>	X8333-4	X8333-3	3325656-8	3325656-7	X8333-7	X8333-1
300 MCM	240	425	6	19 <sup>9</sup> / <sub>16</sub>	X8334-2	X8334-1	3325656-10	3325656-9	X8334-15	X8334-10
500 MCM	320	625	6 <sup>3</sup> / <sub>4</sub>	22 <sup>3</sup> / <sub>8</sub>	X8335-1	X8335-2	3325656-12	3325656-11	X8335-8	X8335-4
<b>3 POWER + 1 GROUND WITHOUT PILOT CIRCUIT CONTACTS</b>										
8	35	75	3 <sup>5</sup> / <sub>8</sub>	11 <sup>13</sup> / <sub>16</sub>	X8336-3	X8336-2	3325656-2	3325656-1	X8336-13	X8336-8
4	65	125	3 <sup>5</sup> / <sub>8</sub>	11 <sup>13</sup> / <sub>16</sub>	X8337-3	X8337-4	3325656-2	3325656-1	X8337-14	X8337-11
2	90	160	3 <sup>7</sup> / <sub>8</sub>	13 <sup>1</sup> / <sub>16</sub>	X8338-2	X8338-3	3325656-4	3325656-3	X8338-13	X8338-8
2/0	135	225	4 <sup>3</sup> / <sub>16</sub>	14 <sup>1</sup> / <sub>16</sub>	X8339-1	X8339-2	3325656-6	3325656-5	X8339-13	X8339-3
4/0	180	325	4 <sup>5</sup> / <sub>8</sub>	13 <sup>15</sup> / <sub>16</sub>	X8340-5	X8340-4	3325656-8	3325656-7	X8340-2	X8340-10
300 MCM	220	425	6	19 <sup>9</sup> / <sub>16</sub>	X8341-2	X8341-1	3325656-10	3325656-9	X8341-13	X8341-9
<b>3 POWER + 1 GROUND WITH TWO PILOT CIRCUIT CONTACTS</b>										
8	35	75	3 <sup>5</sup> / <sub>8</sub>	11 <sup>13</sup> / <sub>16</sub>	X8343-5	X8343-4	3325656-2	3325656-1	X8343-16	X8343-12
4	65	125	3 <sup>7</sup> / <sub>8</sub>	13	X8344-5	X8344-4	3325656-4	3325656-3	X8344-2	X8344-1
2	90	160	4 <sup>3</sup> / <sub>16</sub>	14 <sup>1</sup> / <sub>16</sub>	X8345-5	X8345-6	3325656-6	3325656-5	X8345-15	X8345-10
2/0	135	225	4 <sup>5</sup> / <sub>8</sub>	13 <sup>15</sup> / <sub>16</sub>	X8346-2	X8346-1	3325656-8	3325656-7	X8346-13	X8346-8
4/0	180	325	6	19 <sup>9</sup> / <sub>16</sub>	X8347-2	X8347-1	3325656-10	3325656-9	X8347-13	X8347-8
400 MCM	250	500	6 <sup>3</sup> / <sub>4</sub>	22 <sup>3</sup> / <sub>8</sub>	X8348-3	X8348-2	3325656-12	3325656-11	X8348-10	X8348-7

† This is connector rating only. Operating rating must be based on cable capacity.

NOTE: Refer to price list for identification of stock items.

Pilot circuit contacts are for 12 AWG cable.





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Receptacles mate with the attachable plugs and are equipped with sleeve-type wiring terminals and molded neoprene wiring barriers. Bronze alloy mounting shells and molded neoprene inserts protect against almost any environment. Receptacles are available as dust tight and for permissible use.



**Protective Cap** - Prevents moisture, airborne dust, oils, acids, etc. from collecting on exposed contacts. Packaged separately for easy attachment to plugs and receptacles.



**Short Circuiting Cap** - Used to jumper the pilot circuit in a disengaged connector when series wired control line to other equipment must be closed.

PARTS FOR RECEPTACLES					
MOLDED INSERT		MOUNTING SHELL			
		DUST TIGHT		PERMISSIBLE	
Male	Female	For Male	For Female	For Male	For Female
X8323-2	X8323-1	A324289	324088	—	—
X8324-3	X8324-4	A324289	324088	—	—
X8325-4	X8325-1	A324357	324063	—	—
X8326-5	X8326-4	A324232	324059	—	—
X8327-14	X8327-13	A324166	324094	—	—
X8329-4	X8329-5	A324289	324088	A324292	324300
X8330-5	X8330-6	A324289	324088	A324292	324300
X8331-5	X8331-3	A324357	324063	A324350	324353
X8332-7	X8332-5	A324119	324093	A324206	324198
X8333-6	X8333-5	A324232	324059	A324231	324238
X8334-3	X8334-4	A324166	324094	A324174	324170
X8335-11	X8335-10	324095	324065	—	—
X8336-4	X8336-1	A324289	324088	—	—
X8337-6	X8337-7	A324289	324088	—	—
X8338-4	X8338-1	A324357	324063	—	—
X8339-6	X8339-5	A324119	324093	—	—
X8340-3	X8340-6	A324232	324059	—	—
X8341-3	X8341-4	A324166	324094	—	—
X8343-6	X8343-1	A324289	324088	A324292	324300
X8344-16	X8344-15	A324357	324063	A324350	324353
X8345-2	X8345-1	A324119	324093	A324206	324198
X8346-16	X8346-15	A324232	324059	A324231	324238
X8347-16	X8347-15	A324166	324094	A324174	324170
X8348-4	X8348-5	324095	324065	—	—

NOTE: Refer to price list for identification of stock items.



# Quik-Loc Connectors

## Sleeves and Grommets

Listed below are the Sleeve and Grommet Part Numbers which are supplied with each Plug.

PLUG	SLEEVE	GROMMET #1	GROMMET #2	GROMMET #3
X8323	325298	313305-1	313305-2	313305-5
X8324	325298	313305-1	313305-2	313305-5
X8325	325292	313327-1	313327-2	313327-7
X8326	325245	324153-1	324153-2	324153-6
X8327	325271	324089-1	324089-2	—————
X8329	325298	313305-2	—————	—————
X8330	325298	313305-1	313305-2	313305-5
X8331	325292	313327-2	313327-3	313327-6
X8332	325286	324044-1	324044-2	324044-5
X8333	325245	324153-1	324153-2	324153-6
X8334	325271	324089-1	324089-2	—————
X8335	325305	324024-4	324024-5	—————

PLUG	SLEEVE	GROMMET #1	GROMMET #2	GROMMET #3
X8336	325298	313305-2	—————	—————
X8337	325298	313305-1	313305-2	—————
X8338	325292	313327-1	313327-2	—————
X8339	325286	324044-1	324044-2	—————
X8340	325245	324153-1	324153-2	—————
X8341	325271	324089-1	324089-2	—————
X8343	325298	313305-1	—————	—————
X8344	325292	313327-2	313327-3	—————
X8345	325286	324044-3	324044-4	—————
X8346	325245	324153-2	324153-3	—————
X8347	325271	324089-2	324089-3	—————
X8348	325305	324024-4	324024-5	—————

### 1. For Round Cable

Select Grommet that adapts I.D. of sleeve (supplied on plug) to O.D. of cable being used

Sleeve Part Number	Fits Cable (W/O Grommet)		EXTENSION RANGE OF "ADAPTER GROMMETS" FOR SLEEVES LISTED AT LEFT									
	From	To	Grommet Number	Range	Grommet Number	Range	Grommet Number	Range	Grommet Number	Range	Grommet Number	Range
325298	1.500	1.250	313305-1	1.250 1.000	313305-2	1.000 .750	313305-3	.750 .562	—————	—————	—————	—————
325292	1.813	1.562	313327-1	1.562 1.312	313327-2	1.312 1.062	313327-3	1.062 .812	313327-4	.812 .625	—————	—————
325286	2.000	1.812	324044-1	1.812 1.625	324044-2	1.625 1.437	324044-3	1.437 1.250	324044-4	1.250 1.062	—————	—————
325245	2.375	2.125	324153-1	2.125 1.937	324153-2	1.937 1.750	324153-3	1.750 1.562	324153-4	1.562 1.375	—————	—————
325271	2.937	2.625	324089-1	2.625 2.312	324089-2	2.312 2.000	324089-3	2.000 1.812	—————	—————	—————	—————
325305	3.281	3.000	324024-4	3.000 2.812	324024-5	2.812 2.625	324024-6	2.625 2.531	324024-2	2.531 2.312	324024-3	2.312 2.125

### 2. For Twin W & Twin G Cable

Select Grommet that adapts I.D. of sleeve (supplied on plug) to O.D. of cable being used

(t) WIRE SIZE	#8		#6		#4		#3		#2		#1		#1/0		#2/0		#3/0		#4/0	
CABLE DIMENSIONS	.51 X .84	.51 X .92	.56 X .93	.56 X 1.02	.61 X 1.05	.61 X 1.15	.68 X 1.14	.68 X 1.26	.73 X 1.24	.73 X 1.35	.81 X 1.40	.81 X 1.55	.93 X 1.51	.93 X 1.67	.99 X 1.63	.99 X 1.85	1.03 X 1.77	1.03 X 2.00	1.10 X 1.89	1.10 X 2.10
SLEEVE	PART NOS. ON GROMMETS																			
325298	313305-4				313305-5															
325292					313327-6				313327-7											
325286													324044-5							
325245																	324153-5		324153-6	

(t) Major and minor axis of "Twin W" and "Twin G" type cables.

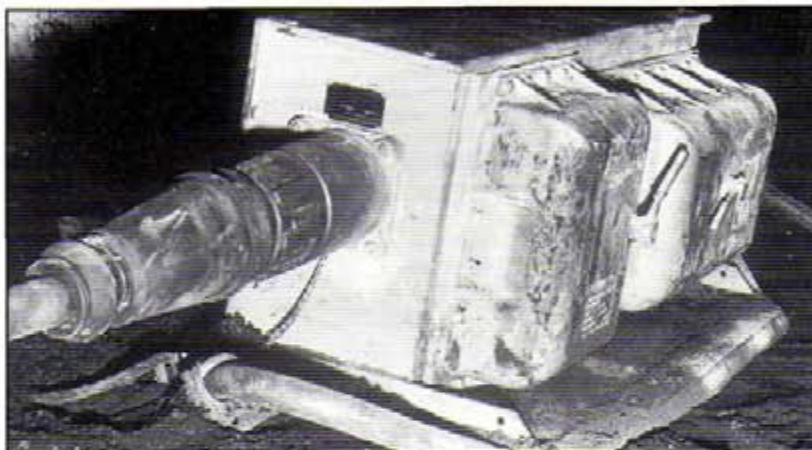


# Typical Applications

- Drills
- Cutters
- Shuttle Cars
- Power Distribution
- Slusher Hoists
- Motors
- Heavy Equipment
- Ship-to-shore

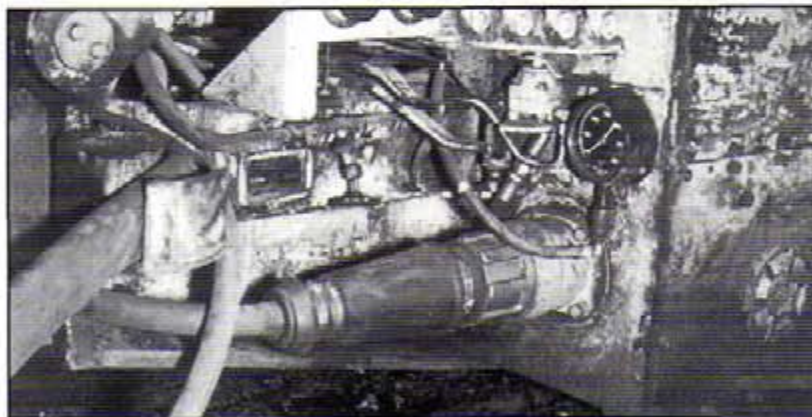


Quik-Loc Connectors fully engage or disengage in only 3/4 turn of coupling. Largest will handle up to 500 MCM cable.



A highly reliable Quik-Loc Connector supplies up to 450 Amps on the power side of a portable distribution center.

*Distributed by:*



Portable mining equipment receives power through rugged Quik-Loc Connector.

**COOPER** Crouse-Hinds

Crouse-Hinds reserves the right to alter or improve the design or construction of its products and to furnish them, when so altered, without reference to the illustrations or descriptions in this bulletin.

**For more information:**

If further assistance is required, please contact an authorized Crouse-Hinds Distributor, Crouse-Hinds Sales Office or Crouse-Hinds Customer Service Department.

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FAX: (905) 501-4078

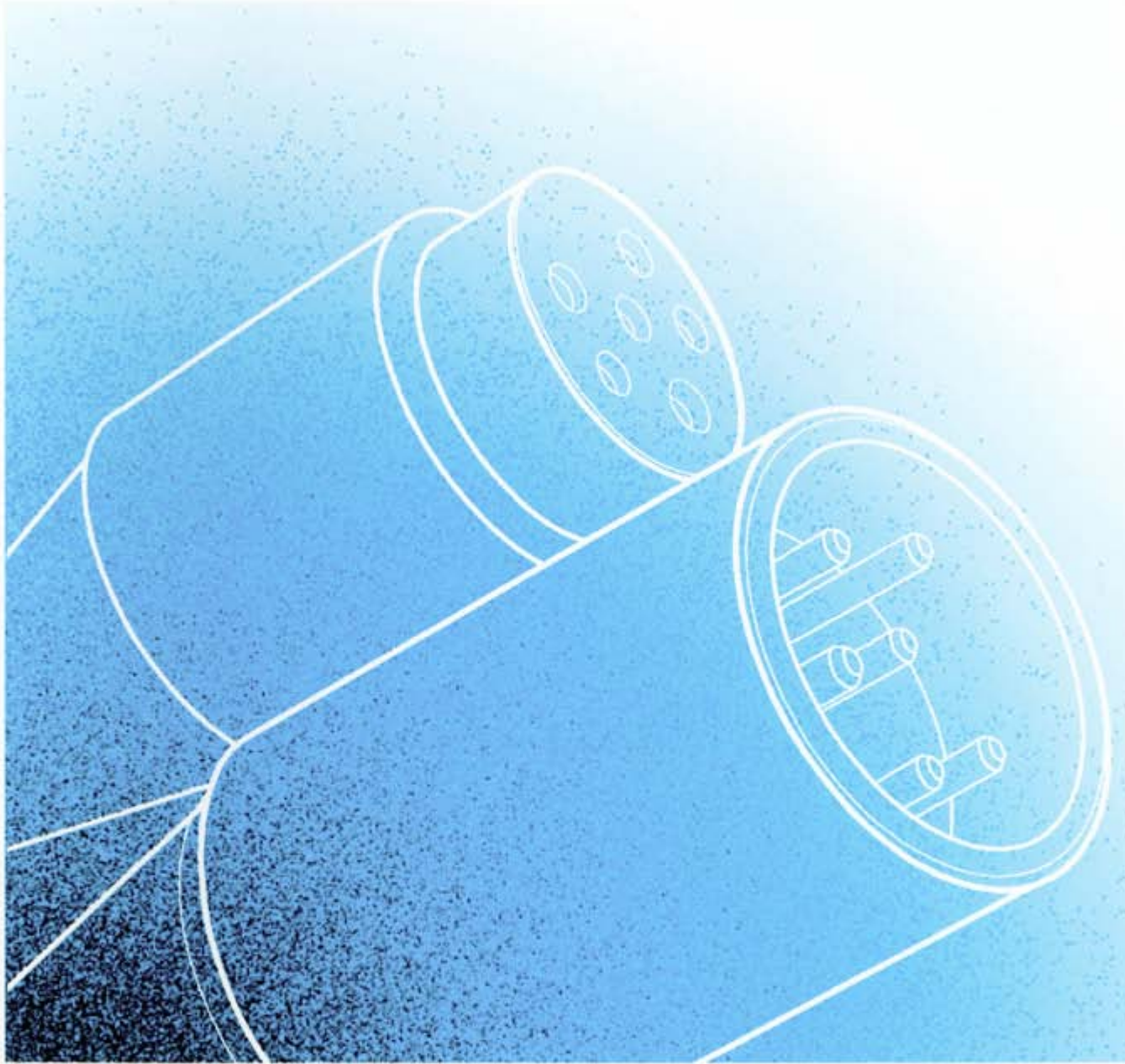
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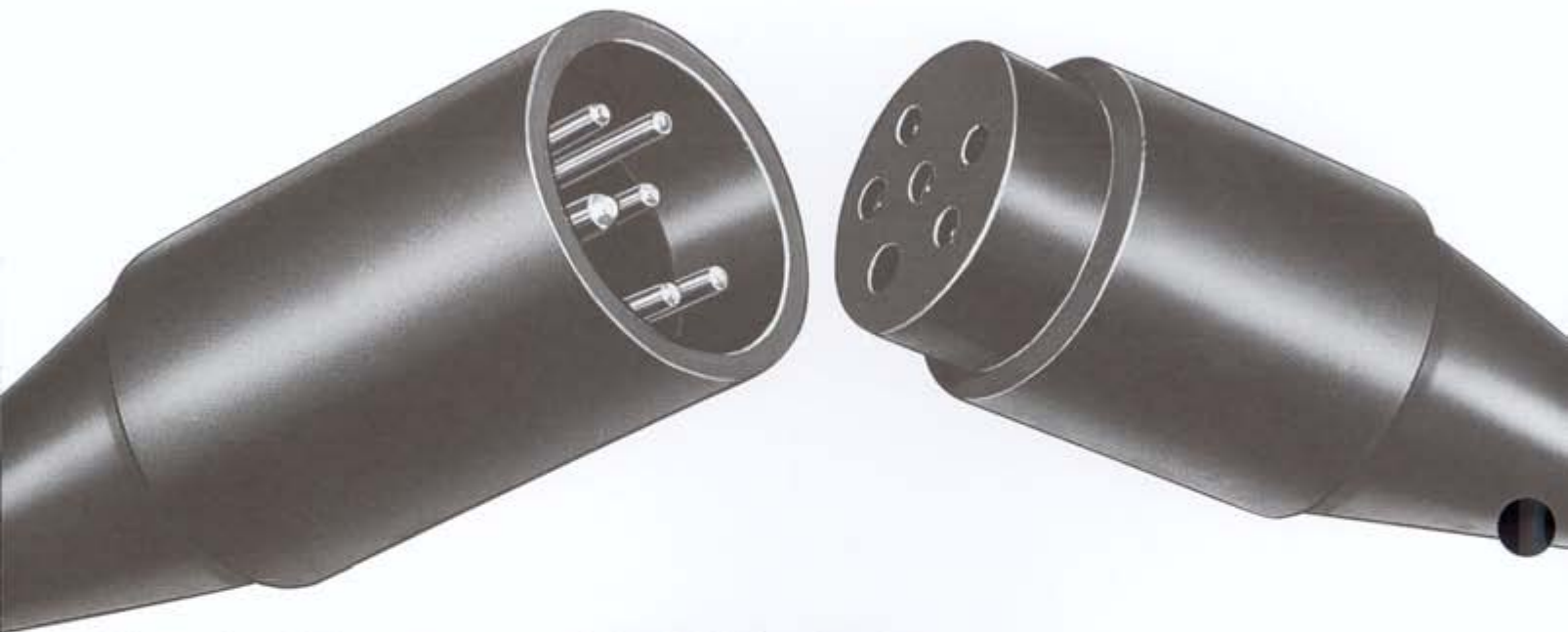
**Crouse-Hinds Molded Products**  
**Round Connectors**



**COOPER** Crouse-Hinds



# Crouse-Hinds Quick Disconnect Round Connectors for power and control applications.



## Electrical Parameters 1 to 26 Contacts #18 AWG through #4/o AWG Conductors. Up to 600 Volts; 150 Amps (multipole); 5,000 Volts; 235 Amps (Single Pole)

A broad line of tough, compact, molded-to-cable connectors for a wide range of power and control applications that require a quick disconnect. The complete line includes male and female plugs and mating receptacles, both with and without protective caps. All connectors over four contacts are polarized for positive mating. Male and female plugs are available in various standard cable lengths.

### Withstands physical abuse

Will not distort or shatter when subjected to high impact or rough handling. Conductor terminations are protected by molded in strain reliefs. No fraying and loosening as a result of sudden jerks or pulls on the cable. Male pins and female sockets are firmly bonded to resilient neoprene and cannot loosen or fall out.

### Sealed against water, dust, contaminants

When the male and female assemblies are joined the resilient shroud of one tightly encloses the other. The result is a completely sealed connection. Since

the plug is molded to the cable, leakage at the cable junction is prevented.

### Corrosion resistant

Specially formulated neoprene compounds are highly resistant to the deteriorating effects of oil, dust, acids, and sunlight.

### Safe, trim and easy to handle

No bulky exterior metal or plastic housing. The cylindrically shaped plug is actually a compact one-piece molding of neoprene which completely insulates the interior.

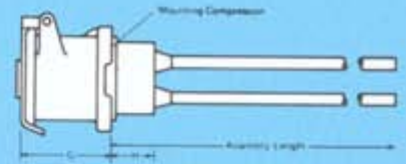
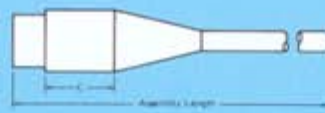
### Easily installed

Since cable is prewired and molded to the plug in the factory, one step is eliminated in the field hookup. Receptacles are furnished with molded pigtail leads.

### Electrically safe

Molded construction insulates, won't break or shatter like phenolic or plastic connectors.

# Round Connectors



**PLUG**

**RECEPTACLE**

ELECTRICAL DATA			DESCRIPTION	DIMENSIONS (Approx. inches)			PLUG PART NUMBERS			RECEPTACLE PART NUMBERS				Asy. ** Length Single Cond. Pigtail	DIMENSIONS (Approx. inches)								
No. of Cnt.	CABLE AWG Type	Max. Cable Rating Amp Volt		Polarized By	Type of Seal	A	B	C	Asy. ** Lgth.	Male	Female	WITHOUT COVER			WITH COVER		A	B	C	D	E	F	G
<b>SINGLE POLE</b>																							
1	18 Neo.	7 600	Non-Polarized	Fem. Shroud	1 1/4	5/8	1 1/4	18"	X8372-12	X8372-2													
								6"	X8372-162	X8372-164	X8372-103												
								10"	X8372-163	X8372-165													
1	10 SO	25 600	Non-Polarized	Fem. Shroud	3/4	2 1/2	2 3/4	16"	X8000-1	X8000-2													
								10"	X8000-44	X8000-46	X8000-18	X8000-10			Term. Back	3/4	1 1/4	1 1/4	1 1/4	1 1/4	3/32	2 1/4	3/4
1	8 Motor Lead	45 600	Non-Polarized	Fem. Shroud	1 1/4	3	3 1/4	16"	X8001-1	X8001-2													
								10"	X8001-34	X8001-36	X8001-13	X8001-8			Term. Back	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	3/32	2 1/4	1 1/4
1	6 Motor Lead	60 600	Non-Polarized	Fem. Shroud	1	3 1/2	3 3/4	16"	X8002-1	X8002-2													
								10"	X8002-34	X8002-36	X8002-14	X8002-10			Term. Back	1	1 1/4	1 1/4	1 1/4	1 1/4	3/32	3 1/4	1 1/4
1	2 5000 Volt	110 5000	Non-Polarized	Fem. Shroud	1 1/2	5 1/2	5 1/2	24"	X8009-1	X8009-2													
1	1 5000 Volt	130 5000	Non-Polarized	Fem. Shroud	1 1/2	5	6 1/2	24"	X8010-1	X8010-4													
1	2/0 Motor Lead	175 600	Non-Polarized	Fem. Shroud	1 1/2	5 1/2	7	24"	X8006-1	X8006-2													
								10"	X8006-45	X8006-47	X8006-19	X8006-14			Term. Back	1 1/2	2 1/4	2 1/4	2 1/4	2 1/4	3/32	7	2 1/2
1	2/0 5000 Volt	175 5000	Non-Polarized	Fem. Shroud	1 1/2	5 1/2	7 3/4	24"	X8011-1	X8011-2													
1	4/0 Motor Lead	235 600	Non-Polarized	Fem. Shroud	1 1/2	5 1/2	7 3/4	24"	X8007-2	X8007-1													
								10"	X8007-58	X8007-60	X8007-16	X8007-13			Term. Back	1 1/2	3 1/4	3 1/4	2 1/2	2 1/2	3/32	7 1/2	2 1/2
<b>TWO POLE</b>																							
2	16 SJO	10 300	Pin Size	Full Male Shroud	1 1/4	1 1/4	1 1/4	28"	X8104-1	X8104-2													
								10"	X8104-385	X8104-387	X8104-5	X8104-57			14"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	3/32	1 1/4	3/4
2	14 SO	15 600	Pin Size	Fem. Shroud	1	3/4	1 1/4	28"	X8083-1	X8083-2													
								10"	X8083-26	X8083-29													
2	14 SO	15 600	Non-Polarized	Fem. Shroud	1	1 1/2	2	28"	X8079-1	X8079-2													
								10"	X8079-55	X8079-57	X8079-7	X8079-15			Term. Back	1	1 1/4	1 1/4	1 1/4	1 1/4	3/32	1 1/4	1 1/4
2	12 SO	20 600	Pin Size	Fem. Shroud	1 1/4	2 1/2	3 1/4	28"	X8437-33	X8437-32													
								10"	X8437-50	X8437-51													
2	12 SO	20 600	Pin Size	Fem. Shroud	1	3/4	1 1/4	24"	X8405-163	X8405-166													
								10"	X8405-165	X8405-168													

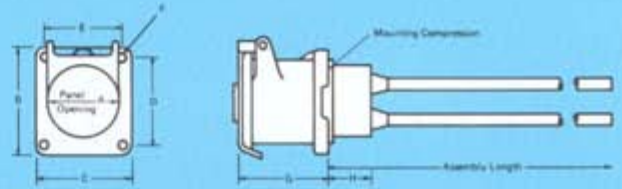
NOTE: Refer to price list for identification of stock items. \* Cable rating based on conductor temperature of 60°C and maximum ambient temperature of 40°C. \*\* Cable lengths are subject to standard Crouse-Hinds tolerances.



# Round Connectors



**PLUG**



**RECEPTACLE**

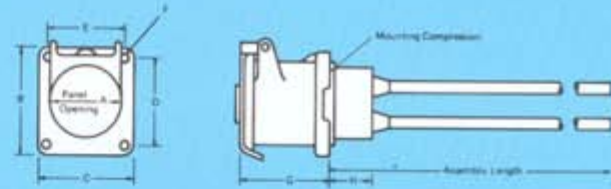
ELECTRICAL DATA				DESCRIPTION		DIMENSIONS (Approx. Inches)			PLUG PART NUMBERS			RECEPTACLE PART NUMBERS				Asy. Length Single Cond. Pigtail	DIMENSIONS (Approx. Inches)										
No. of Cont.	CABLE AWG Type	Max Cable Rating Amp	Volts	Polarized By	Type of Seal	A	B	C	Asy. Lgth.	Male	Female	WITHOUT COVER		WITH COVER			A	B	C	D	E	F	G	H			
<b>THREE POLE</b>																											
3	18 SO	7	600	Pin Size	Full Male Shroud	1 1/4	2	1 1/4	24"	X8634-6	X8634-5			X8634-8	X8634-7		14"	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2	1/4	1 1/4	1 1/4		
									10"	X8634-52	X8634-54																
3	16 SO	10	600	Pin Size	Full Male Shroud	1 1/4	2 1/4	2 1/4	28"	X8107-1	X8107-2					X8107-16	X8107-12	Term Back	1 1/4	2	2	1 1/2	1 1/2	7/32	2 1/4	1 1/4	
									10"	X8107-113	X8107-115																
3	14 SO	15	600	Pin Size	Full Male Shroud	1 1/4	2 1/4	1 1/2	28"	X8108-3	X8108-1			X8108-8	X8108-6			Term Back	1 1/4	2 1/2	2 1/2	1 1/2	1 1/2	7/32	1 1/2	1 1/2	
									10"	X8108-107	X8108-109																
3	12 SO	20	600	Central Key	Full Male Shroud	1 1/4	2 1/4	2	28"	X8118-1	X8118-4					X8118-11	X8118-22	14"	1 1/4	2 1/2	2 1/2	2	1 1/2	7/32	2 1/4	1	
									10"	X8118-63	X8118-65																
<b>FOUR POLE</b>																											
4	18 SO	5	600	Pin Size	Fem. Shroud	1 1/4	1 1/2	2	28"	X8086-3	X8086-4			X8086-14	X8086-8		14"	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2	7/32	1	1 1/4		
									10"	X8086-27	X8086-29																
4	16 SJO	8	300	Pin Size	Full Male Shroud	1 1/4	1 1/4	1 1/4	28"	X8109-9	X8109-10			X8109-22	X8109-23		14"	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2	7/32	1 1/4	1 1/4		
									10"	X8109-145	X8109-147																
4	16 SO	5	600	Central Key	Full Male Shroud	1 1/4	1 1/4	1 1/4	28"	X8120-5	X8120-3					X8120-17	X8120-16	14"	1 1/4	2	2	1 1/2	1 1/2	7/32	2 1/4	1 1/4	
									10"	X8120-35	X8120-37																
4	12 SO	16	600	Pin Size	Fem. Shroud	1 1/4	1 1/4	2 1/2	28"	X8510-1	X8510-2					X8510-15	X8510-12	14"	1 1/4	2 1/2	2 1/2	2	1 1/2	7/32	2 1/4	1 1/4	
									10"	X8510-99	X8510-101																
4	12 SO	16	600	Central Key	Full Male Shroud	1 1/4	2 1/4	1 1/2	28"	X8121-25	X8121-24					X8121-11	X8121-7	14"	1 1/4	2 1/2	2 1/2	2	1 1/2	7/32	2 1/4	1 1/4	
									6"	X8121-32	X8121-31																
									10"	X8121-74	X8121-76																
4	10 SO	20	600	Central Key	Fem. Shroud	1 1/4	1 1/2	3	28"	X8092-1	X8092-2					X8092-9	X8092-6	12"	1 1/4	2 1/2	2 1/2	2	2	7/32	2 1/4	1 1/4	
									10"	X8092-50	X8092-52																
4	10 SO	20	600	Central Key	Full Male Shroud	1 1/4	3	2	28"	X8122-1	X8122-2			X8122-19	X8122-18		14"	1 1/4	2 1/2	2 1/2	2	1 1/2	7/32	1 1/4	1		
									10"	X8122-38	X8122-40																
4	8 W	30	600	Central Key	Full Male Shroud	2 1/4	3 1/4	2 1/4	30"	X8123-6	X8123-3					X8123-4	X8123-2	14"	2 1/4	3 1/4	3 1/4	2 1/4	2 1/4	7/32	2 1/2	1 1/4	
									10"	X8123-46	X8123-48																
4	6 W	40	600	Pin Size	Full Male Shroud	2 1/4	3 1/2	2 1/4	45"	X8110-5	X8110-2					X8110-16	X8110-15	20"	2 1/4	3 1/4	3 1/4	2 1/4	2 1/4	7/32	2 1/2	1 1/4	
									10"	X8110-117	X8110-73																

NOTE: Refer to price list for identification of stock items.

# Round Connectors



**PLUG**

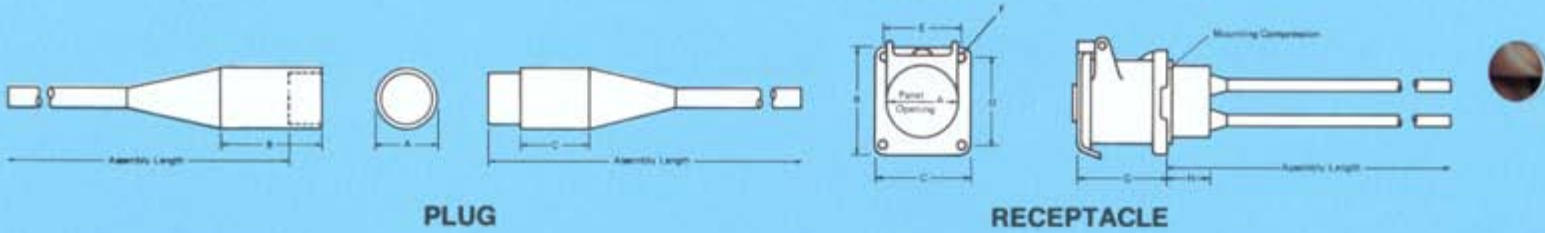


**RECEPTACLE**

ELECTRICAL DATA				DESCRIPTION		DIMENSIONS (Approx. inches)			PLUG PART NUMBERS			RECEPTACLE PART NUMBERS				Asy. Length Single Cond. Pigtail	DIMENSIONS (Approx. inches)								
No. of Cables	CABLE AWG	Type	Max Cable Rating Amp Volt	Polarized By	Type of Seal	A	B	C	Asy. Lgth.	Male	Female	WITHOUT COVER		WITH COVER			A	B	C	D	E	F	G	H	
<b>FOUR POLE</b>																									
4	2	W	75 600	Pin Size	Full Male Shroud	2 1/2	5 1/2	3 3/4	24"	X8728-4	X8728-3				X8728-24	20"	2 1/4	4	4	3 1/2	3 1/2	3/4	4 1/2	1 1/4	
4	4/0	—	100 600	Pilots	Full Male Shroud	4 3/4	13	13	Field Attach.	X1806-71	X1806-70				X1806-110 (1/0 A WG)	20"	3 3/4	4 1/2	4 1/2	3 1/2	3 1/2	3/4	4 1/2	1 1/4	
			180												X1806-387 (4/0 A WG)	24"	3 3/4	4 1/2	4 1/2	3 1/2	3 1/2	3/4	4 1/2	1 1/4	
<b>FIVE POLE</b>																									
5	18	SO	5 600	Pin Size	Fem. Shroud	1 1/2	1 1/2	2 1/2	28"	X8088-5	X8088-1				X8088-11	14"	1 1/2	2	2	1 1/2	1 1/2	3/32	2 1/4	1/2	
									10"	X8088-20	X8088-22				X8088-9										
5	14	SO	12 600	Pin Size	Full Male Shroud	1 1/2	2 1/4	1 1/2	25"	X8112-11	X8112-10				X8112-21	14"	1 1/2	2	2	1 1/2	1 1/2	3/32	2 1/4	3/4	
									10"	X8112-71	X8112-76				X8112-24										
5	12	SO	16 600	Pin Size	Full Male Shroud	1 1/2	2 1/2	2	28"	X8701-4	X8701-3				X8701-8	14"	1 1/2	2	2	1 1/2	1 1/2	3/32	2 1/4	3/4	
									10"	X8701-27	X8701-29				X8701-7										
5	12	SO	16 600	Central Key	Full Male Shroud	1 1/2	2 1/2	1 1/4	28"	X8125-3	X8125-6				X8125-10	14"	1 1/2	2 1/2	2 1/2	2	1 1/2	3/32	2 1/4	1	
									10"	X8125-44	X8125-72				X8125-4										
<b>SIX POLE</b>																									
6	16	SO	8 600	Pin Size	Full Male Shroud	1 1/2	2	1 1/4	28"	X8113-1	X8113-2				X8113-27	14"	1 1/2	2	2	1 1/2	1 1/2	3/32	2 1/4	3/4	
									10"	X8113-73	X8113-75				X8113-4										
6	14	SO	12 600	Pin Size	Full Male Shroud	1 1/2	2 1/2	2 1/2	28"	X8114-12	X8114-4				X8114-14	14"	1 1/2	2	2	1 1/2	1 1/2	3/32	2 1/4	3/4	
									10"	X8114-57	X8114-54				X8114-10										
6	12	SO	16 600	Central Key	Full Male Shroud	1 1/2	2 1/2	1 1/4	28"	X8127-12	X8127-9				X8127-6	14"	1 1/2	2 1/2	2 1/2	2	1 1/2	3/32	2 1/4	3/4	
									10"	X8127-84	X8127-79				X8127-7										
6	12	SO	16 600	Central Key	Full Male Shroud	1 1/2	3 1/4	2 1/2	28"	X8128-41	X8128-42		X8128-40	X8128-39		14"	1 1/2	2 1/2	2 1/2	2	1 1/2	3/32	1 1/4	1 1/4	
									10"	X8128-55	X8128-62														
6	8	W	25 600	Central Key	Short Male Shroud	2 1/2	3 1/4	3	30"	X8566-4	X8566-3		X8566-6	X8566-5		14"	2 1/2	3 1/4	3 1/4	2 1/2	2 1/2	3/32	2 1/4	1	
									10"	X8566-37	X8566-40														
<b>SEVEN POLE</b>																									
7	14	SO	11 600	Pin Size	Full Male Shroud	1 1/2	2 1/4	1 1/4	26"	X8116-13	X8116-11				X8116-6	14"	No Cover	1 1/2	2 1/2	2 1/2	2	2	3/32	1	3/4
									10"	X8116-44	X8116-30				X8116-2		Cover	1 1/2	2 1/2	2 1/2	2	1 1/2	3/32	2 1/4	3/4



# Round Connectors



**PLUG**

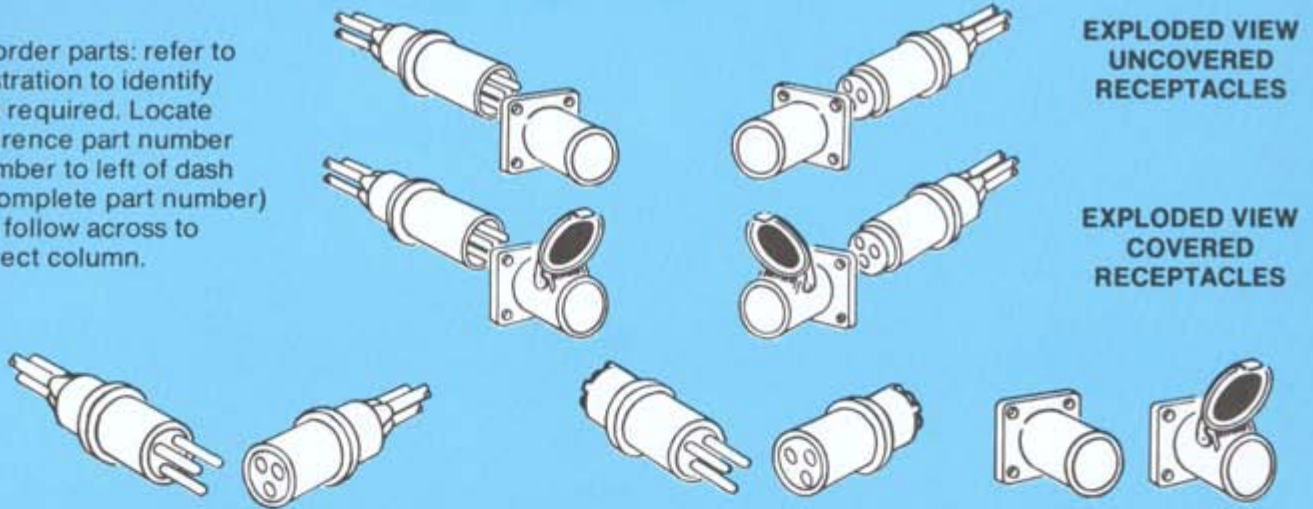
**RECEPTACLE**

ELECTRICAL DATA		DESCRIPTION		DIMENSIONS (Approx. inches)			PLUG PART NUMBERS			RECEPTACLE PART NUMBERS				Asy. Length Single Cond. Pigtail	DIMENSIONS (Approx. inches)										
No. of Cables	CABLE AWG Type	Max Cable Rating Amp	Volts	Polarized By	Type of Seal	A	B	C	Asy. Lgth.	Male	Female	WITHOUT COVER			WITH COVER		A	B	C	D	E	F	G	H	
<b>SEVEN POLE</b>																									
7	10 SO	18	600	Central Key	Fem. Shroud	2 3/8	3 1/8	4 1/8	28	X8093-9	X8093-6			X8093-10	X8093-7	12"	2 3/8	3 1/8	3 1/8	2 3/8	2 3/8	3/32	2 1/2	1	
									10	X8093-40	X8093-42														
<b>EIGHT POLE</b>																									
8	18 SO	5	600	Central Key	Full Male Shroud	1 3/8	1 3/8	1 3/8	28	X8129-8	X8129-4			X8129-10	X8129-6	14"	1 3/8	2	2	1 1/2	1 1/2	3/32	2 3/8	3/8	
									10	X8129-27	X8129-29														
8	10 SO	18	600	Central Key	Fem. Shroud	2 3/8	3 1/8	4 1/8	28	X8094-8	X8094-10			X8094-6	X8094-4	14"	2 3/8	3 1/8	3 1/8	2 3/8	2 3/8	3/32	2 1/2	1	
									10	X8094-63	X8094-65														
<b>NINE POLE</b>																									
9	10 Control	18	600	Pin Size	Fem. Shroud	2 3/8	1 1/8	3 3/8	28	X8091-15	X8091-14					14"	2 3/8	3 1/8	3 1/8	2 3/8	2 3/8	3/32	2 1/2	1	
									10	X8091-31	X8091-33			X8091-19	X8091-18										
<b>TEN POLE</b>																									
10	10 Control	15	600	Central Key	Fem. Shroud	2 3/8	2 1/8	4 1/8	28	X8097-13	X8097-12			X8097-17	X8097-16	14"	2 3/8	3 1/8	3 1/8	2 3/8	2 3/8	3/32	2 1/2	1	
									10	X8097-74	X8097-76														
<b>TWELVE POLE</b>																									
12	16 Control	5	600	Central Key	Fem. Shroud	1 3/8	2 1/8	2 3/8	28	X8100-4	X8100-5			X8100-7	X8100-6	14"	1 3/8	2 1/8	2 1/8	2	1 3/8	3/32	2 3/8	1 3/8	
									10	X8100-32	X8100-34														
12	12 Control	20	600	Central Key	Fem. Shroud	2 3/8	—	4	28	—	X8402-31			X8402-14		14"	2 3/8	3 1/8	3 1/8	2 3/8	2 3/8	3/32	2 1/2	1/2	
									6		X8402-2														
									10		X8402-32														
12	10 Control	15	600	Central Key	Fem. Shroud	2 3/8	1 3/8	3 3/8	28	X8101-12	X8101-27			X8101-28	X8101-11	14"	2 3/8	3 1/8	3 1/8	2 3/8	2 3/8	3/32	2 1/2	3/8	
									10	X8101-127	X8101-129														
<b>SIXTEEN POLE</b>																									
16	12 Control	10	600	Central Key	Fem. Shroud	3	2 3/32	3	30	X8431-29	X8431-8			X8431-12	X8431-32	20"	2 3/8	3 1/8	3 1/8	2 3/8	2 3/8	3/32	2 1/2	1/2	
									6	X8431-115	X8431-117														
<b>TWENTY POLE</b>																									
20	16 Control	7	600	Central Key	Fem. Shroud	3	2 3/32	3	28	X8753-2	X8753-1				X8753-28	12"	3	4	4	3 1/8	3 1/8	3/8	4 1/8	1 1/8	
<b>TWENTY FOUR POLE</b>																									
24	16 Control	7	600	Central Key	Fem. Shroud	3	3 1/8	3 3/8	24	X8441-16	X8441-61			X8441-30	X8441-18	20"	3	4	4	3 1/8	3 1/8	3/8	4 1/8	3/8	
									10	X8441-60	X8441-63														
<b>TWENTY SIX POLE</b>																									
26	14 Control	10	600	Body Index	Full Male Shroud	2 3/8	2 1/2	—	9	X8905-4	X8905-18				X8905-3	36"	2 3/8	3 1/8	3 1/8	2 3/8	2 3/8	3/32	2 1/2	1	
									12	X8905-5															
									18	X8905-1															

NOTE: Refer to price list for identification of stock items.

# Round Receptacle Parts

To order parts: refer to illustration to identify part required. Locate reference part number (number to left of dash in complete part number) and follow across to correct column.



REF. NO.	PIGTAIL INSERT		TERMINAL BACK INSERT		MOUNTING SHELL	
	MALE	FEMALE	MALE	FEMALE	WITHOUT CAP	WITH CAP
X1806 (#1/0)	X1806-112	X1806-62	—	—	—	X1675-4
X1806 (#4/0)	X1806-386	X1806-332	—	—	—	X1675-4
X8000	—	—	X8000-19	X8000-12	301425-1	—
X8001	—	—	X8001-15	X8001-9	300972-1	—
X8002	—	—	X8002-16	X8002-11	301474-1	—
X8006	—	—	X8006-16	X8006-15	302543-1	—
X8007	—	—	X8007-19	X8007-17	302542-1	—
X8079	—	—	X8079-8	X8079-18	301474-2	—
X8083	—	—	X8083-19	X8083-17	301474-2	—
X8086	X8086-6	X8086-7	—	—	300756	—
X8088	X8088-8	X8088-7	—	—	—	X1713-1
X8091	X8091-20	X8091-21	—	—	—	X1718
X8092	X8092-12	X8092-11	—	—	—	X1786
X8093	X8093-13	X8093-12	—	—	—	X1718
X8094	X8094-7	X8094-9	—	—	—	X1718
X8097	X8097-18	X8097-19	—	—	—	X1718
X8098	—	X8098-3	—	—	—	X1678
X8100	X8100-10	X8100-11	—	—	—	X1678
X8101	X8101-31	X8101-32	—	—	—	X1718
X8104	X8104-29	X8104-28	—	—	301425-2	—
X8107	—	—	X8107-20	X8107-18	—	X1713-1
X8108	—	—	X8108-12	X8108-10	301881-3	—
X8109	X8109-15	X8109-14	—	—	300756	—
X8110	X8110-19	X8110-18	—	—	—	X1718
X8112	X8112-22	X8112-23	—	—	—	X1713-1
X8113	X8113-20	X8113-17	—	—	—	X1713-1
X8114	X8114-6	X8114-16	—	—	—	X1713-1
X8116	X8116-10	X8116-15	—	—	—	X1678
X8118	X8118-13	X8118-23	—	—	—	X1678
X8120	X8120-8	X8120-7	—	—	—	X1781
X8121	X8121-23	X8121-22	—	—	—	X1678
X8122	X8122-20	X8122-21	—	—	304006	—
X8123	X8123-9	X8123-8	—	—	—	X1718
X8125	X8125-12	X8125-5	—	—	—	X1678
X8127	X8127-15	X8127-8	—	—	—	X1678
X8128	X8128-19	X8128-23	—	—	304006	—
X8129	X8129-13	X8129-12	—	—	—	X1781
X8402	X8402-15	—	—	—	—	X1718
X8431	X8431-24	X8431-34	—	—	—	X1718
X8437	X8437-40	X8437-41	—	X8437-17	—	X1713-1
X8441	X8441-31	X8441-19	—	—	—	X1832
X8510	X8510-17	X8510-8	—	—	—	X1678
X8566	X8566-2	X8566-7	—	—	300802-1	—
X8634	X8634-11	X8634-12	—	—	301425-2	—
X8701	X8701-9	X8701-10	—	—	—	X1781
X8728	X8728-23	—	—	—	—	X1716
X8753	—	X8753-27	—	—	—	X1832
X8905	—	X8905-2	—	—	—	X1718

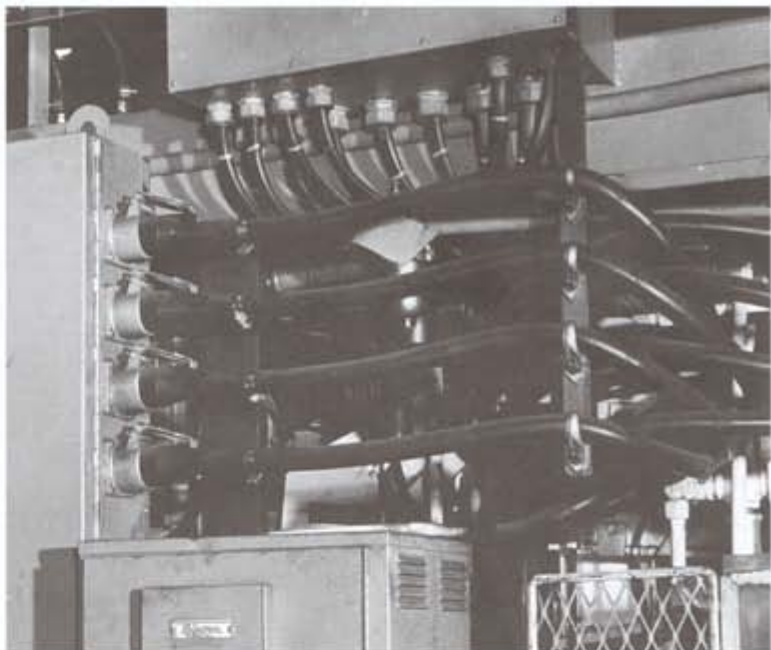


## Typical Applications

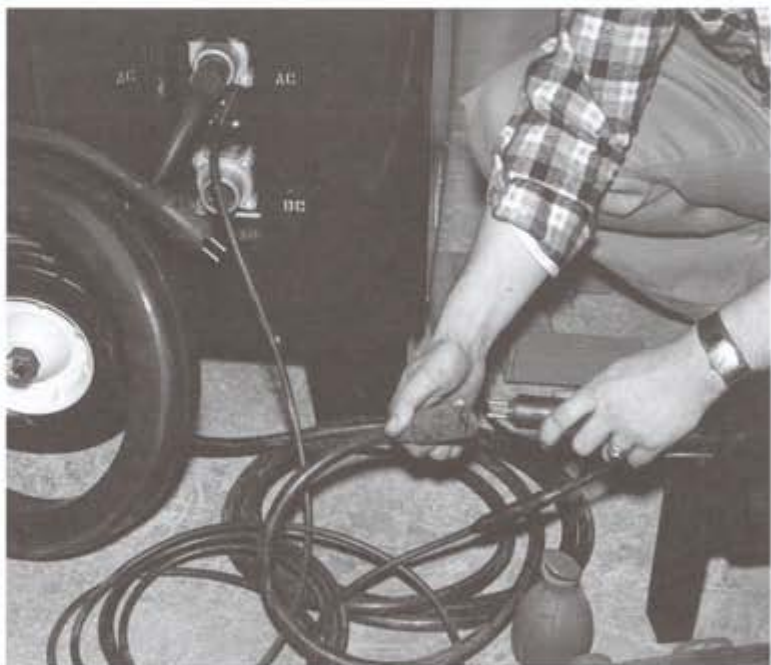
- Control Circuitry
- Motor generator sets
- Test stands
- Photo flash
- Welders
- Motors
- Lighting
- Portable tools
- Electrode circuits
- Conveyors
- Instrumentation

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Distributed by:



Compact multipole connectors supply control circuitry from panel to operating mechanisms. Plugs are held firmly in place by spring loaded caps on receptacles.



Components of an electronic testing unit are easily hooked up or taken apart for storage using Crouse-Hinds connectors.

**COOPER** Crouse-Hinds

**For more information:**

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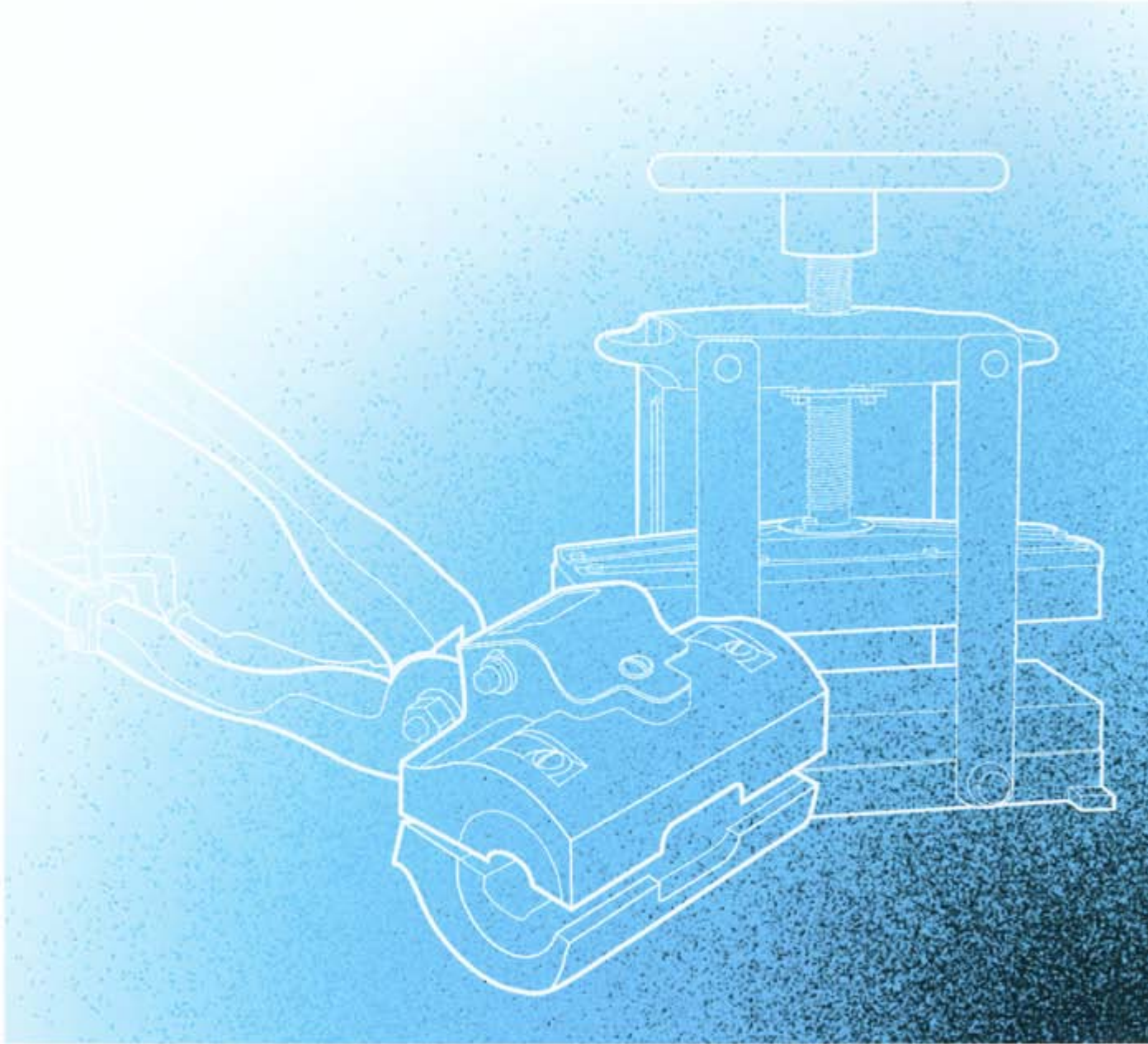
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**Crouse-Hinds Molded Products**  
**Vulcanizers and Supplies**



**COOPER**  Crouse-Hinds



## Crouse-Hinds 3000 Watt Semi-Portable Vulcanizer



1. Top pressure head with two carrying handles. Sturdy one-piece cast aluminum construction.
2. Precision threaded steel compression shaft with large drive wheel. Assures uniform pressure over mold.
3. Snap action "off-on" switch. Controls current to heater elements in both the top and bottom platens.
4. Indicator lights for top and bottom platens go out when temperature reaches thermostatic setting.
5. Spring latch locks front tie bars to pressure head. Permits quick release of tie bars for front loading of mold.
6. Large 6 x 18 inch aluminum platens provide quick and even distribution of heat to molds.
7. Calibrated thermostats. Control heat range from 220° to 320°F for each platen.

### Versatile

New "open front" bench type design greatly increases the variety of jobs that can be performed by these vulcanizers. Tie bars swing down for front loading. With proper molds, they can be used to repair jacketing or insulate splices on practically any currently available type and size of rubber, synthetic rubber or plastic-covered cable . . . to make pot-heads . . . or to fully insulate "T" and "Y" type power tap-offs.

### Economical

Priced to fit the most modest maintenance budget, these long-lasting presses are simple and inexpensive to operate. Purchase price often is repaid in the first few months of operation by savings in cable replacement costs.

### Efficient

Calibrated thermostats on each platen permit quick settings from 220° through 320°F. and automatically maintain selected temperature during the vulcanizing cycle. Placement of 750 watt electrical heaters (2 in top and 2 in bottom platen) reduce "warm-up" periods and increase vulcanizing efficiency.

OPERATING VOLTAGE			PART NO.
115	V. AC	(Single phase)	X8756-17
230	V. AC	(Single phase)	X8756-18
460	V. AC	(Single phase)	X8756-19
550	V. AC	(Single phase)	X8756-20

### Lightweight

Though ruggedly constructed for mold closure pressure of up to 25 tons it can be carried by the average man . . . however, convenient handles are provided for two men. Use of aluminum, wherever feasible, reduces weight to 85 lbs., less molds.

### Usable in tandem

Generally speaking, Crouse-Hinds all-purpose vulcanizers will accept any rectangular mold with overall outside dimensions not larger than 6x6x24 inches . . . however, longer cable repairs can be made by placing 2 or more vulcanizers end to end.

### Large capacity

Splicing capacity up to 4 inches O.D. Patching to a maximum of 5 inches O.D.

### Receptacle wiring base

X8669-19  
SBM4136

3 pole receptacle must be separately ordered. Mates with Male plug supplied on vulcanizer. Has screw type wiring terminals and a spring hinged cover. Wiring chamber threaded for 3/4" conduit.



1. Quick release latch allows vulcanizer to be opened after loosening turn buckle.
2. Pilot light indicates current flow, goes off when thermostatic setting is reached.
3. Calibrated thermostat controls heat range from 220° to 325°F for upper and lower jaws.
4. A 500 watt electrical heater is cast into each molding head, heat is transferred directly to molds.
5. A 20 ft. grounded extension cord is furnished with each unit.

### Fast acting

Equipped with two (2) 500 watt electrical heaters, the X1604-, series portable vulcanizers "warm up" fast and vulcanize rapidly. To insure even top-to-bottom distribution of the heat around the molds, one heater is located in each of the molding jaws.

### Vulcanizes rubber, synthetics, thermoplastics

Calibrated thermostat located at the top of the unit sets, by rotation of hand knob, to mold temperatures required for natural rubber, rubber synthetics and thermoplastic (Polyvinyl) compounds.

### Large capacity

Although "number of conductors" and whether repair is a splice or a patch will determine maximum capacity . . . generally speaking, the following data will apply. PATCHING - Cable O.D.'s of 2" or under. SPLICING - Cable O.D.'s of 1.625" or under. LENGTH OF PATCH - 8" maximum.

### Corrosion resistant

The X1604-, series portable vulcanizers have rib reinforced cast



## Crouse-Hinds 1000 Watt Portable Vulcanizer

magnesium housings and carefully machined aluminum molds. All other metal parts are cadmium plated. In addition, the plug and extension cable are factory molded as a one-piece moisture-tight assembly.

### Repairs hose jackets

With suitable molds, X1604-, series vulcanizers may be used to re-jacket air hose . . . however, such repairs must be protected against excessive internal pressures through use of short lengths of metal tubing.

### Lightweight

Though designed to repair cable fast and efficiently, the weight of the portable cable vulcanizer has been kept to a minimum. Complete unit, less aluminum molds, weighs only 16 lbs. Sturdy one-piece cast magnesium handles and jaw sections open and close like scissors.

#### 1. VULCANIZER ONLY

NO. X1604-8	115/120 V A.C.
NO. X1604-9	220/240 V A.C. and 250 V D.C.

#### 2. VULCANIZER SETS (\*)

NO. X1604-10	115/120 V A.C.
NO. X1604-11	220/240 V A.C. and 250 V D.C.

NOTE: All units are for single phase, 60 cycle current.

\* Complete w/carrying case (A335132)  
Apliswax and tool roll (A320211-1)



















### Tool Roll No. A320211-1 Accessory Kit for Vulcanizer

3/16" Hexagon Key	Skinning Knife
Plated Scissors	Lea. Faced Gloves
Swabbing Brush	Extra Saw Blade
Abrasive Stone	Metal Cutting Saw
Long-nose Pliers	Angle-nose Pliers
Steel Scale	Diagonal Cutters
Screwdriver	Canvas Tool Roll

## Molds For Portable And Bench Vulcanizers

Molds for Crouse-Hinds Vulcanizers have been designed in a variety of styles and sizes to cover practically all types of repairs or splices on Rubber, Neoprene, Buna S or Thermoplastic covered cables. While rectangular shaped molds illustrated below are used in bench type Vulcanizers, application descriptions at their left are correct for all Crouse-Hinds molds, (i.e.) Type "A" always designates a patching mold . . . Type "B" a splicing mold, etc., regardless of the vulcanizer it's used in Crouse-Hinds interchangeable molds are carefully machined from aluminum in two identical "half-sections" to insure maximum heat conductivity and permit easy removal of hot cable after vulcanizing process has been completed.

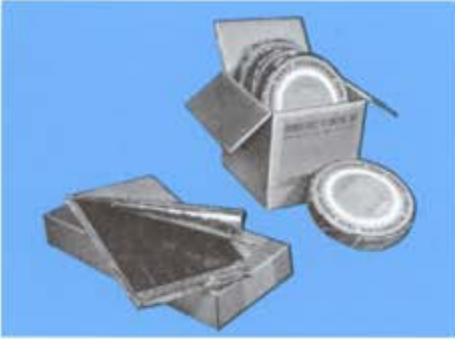
**Ordering Instructions:** for molds select type for either Bench or Portable Vulcanizer. Provide Crouse-Hinds with catalog series No. Also include length of repair and the O.D. of cable being repaired.

TYPE	Type and Description	Catalog Series Number	
		Bench	Port
<b>A</b>	 <b>Type "A"</b> – For repairing cuts and worn spots in all types of Round Cables. Note: cable diameter cavity is machined full length. Overall mold length is determined by length of repair and the dimensional capacity of the vulcanizer being used.	 3335464	 3324520
<b>B</b>	 <b>Type "B"</b> – For splicing all types of Round Cables, as well as the "Concentric Method" of splicing concentric cables. The length "B" molds is determined by the specifications of the cables to be processed (i.e.) type, size, number of conductors, applications, etc.	 3335465	 3324521
<b>D</b>	 <b>Type "D"</b> – For repairing cuts and worn spots in Twin Type "W" & "G" Cables. Cable size cavity is machined full length. Overall Mold length is determined by length of repair and the dimensional capacity of the vulcanizer being used.	 3335466	 3324523
<b>E</b>	 <b>Type "E"</b> – For splicing Twin Type "W" or Twin Type "G" Cables. The lengths of "E" molds are determined by the specifications of the cables to be processed (i.e.) type, size, number of conductors, etc.	 3335467	 3324522
<b>T</b>	 <b>Type "T"</b> – Makes it possible to professionally insulate 90° power tap-offs. Complete specifications on cable types being used must be furnished with orders, (i.e.) types, sizes, number of conductors, etc.	 3325185	 3324934
<b>Y</b>	 <b>Type "Y"</b> – For re-jacketing tap-offs from a main feeder cable. When ordering, complete specifications must be furnished, (i.e.) type and diameter of cable being used . . . number and diameter of conductors being "brought-out" in "Y" tap-off, etc.	 3335629	 3324923

NOTE: Refer to price list for identification of stock items.



# Crouse-Hinds Vulcanizing Supplies



Available in a variety of carefully prepared chemical compositions for average or unusual requirements. **Crouse-Hinds cable vulcanizing tapes and compounds fall under four general classifications.** (1) Insulating Tapes . . . used for separating and insulating individual conductors. (2) Jacketing Tapes and Compounds . . . for high and low voltage cables specially created to provide high resistance to rough treatment and abrasion. (3) All Purpose Compounds . . . for use as insulation

and jacketing on cables rated at 600 volts and under. (4) A Plastic Compound... used to re-insulated and re-jacket polyvinyl chloride type cables (Geon, Flamenol, Vinylite, etc.).

## Individual Characteristics

1. 319,735-1 – All Purpose Neoprene Tape. Can be used to re-insulate and re-jacket cable for voltages of 600 and under. Has high dielectric strength and the following resistance properties: to sunlight, flame, oil, gasoline, acids and wear and tear, good.
2. 319,753-2 – Cold Test Compound. Will remain flexible in temperatures as low as 67°F. Can also be used to re-insulate and re-jacket cable. Has high dielectric strength and the following resistance properties: to sunlight, oil, gasoline, excellent; to acids, wear and tear, good; to flame, poor.
3. 319,754-1 – Polyvinyl Chloride Compound. For patching and repairing jacketing or for re-insulating splices on Vinylite, Geon, Flamenol, etc., covered cable. Has good dielectric strength

and the following resistance properties: to oil, gasoline, excellent; to sunlight, acids and wear and tear, good; to flame, poor.

4. 319,757-1 – All Purpose Neoprene Compound. Has same properties and is used for same applications as 319,735-1 except has more plasticizer added to reduce pressure required for mold closure. Used primarily in Crouse-Hinds Portable Vulcanizers.
5. 319,775 – Grey Unvulcanized Insulating Tape. Has high dielectric strength. Melts and flows to "mold form" during vulcanizing cycle. Its resistance properties are as follows: to acids, excellent; to wear and tear, good; to sunlight, flame, oil and gasoline, poor.
6. 319,776 – Grey Pre-Vulcanized Insulating Tape. Has high dielectric strength. Will not melt and flow under heat and pressure of molding. Acts as a protective spacer between conductors. Its resistance properties are as follows: to acids, excellent; to wear and tear, good; to sunlight, flame, oil and gasoline, poor.

GENERAL INFORMATION					
PART NO.	TYPE	PACKAGING	OPERATING TEMP. RANGE	ESTIMATED SHELF LIFE (Average)	
INSULATING AND JACKETING					
				@ 70°F to 90°F	@ 90°F to 100°F
319,735-1	Unvulcanized neoprene tape	.030" thick by 1" wide 45 ft. long roll	0° to 187°F	6 Mo.	4 Mo.
319,753-2	Unvulcanized synthetic rubber	Supplied in 1/16" thick by 6" wide by 15" long sheets, scored to 1" strips and packaged 5 lbs. to a carton	- 67° to 158°F	6 Mo.	4 Mo.
319,757-1	Unvulcanized neoprene		0° to 187°F	6 Mo.	4 Mo.
319,754-1	Polyblend (polyvinyl chloride) for thermoplastic covered cable		0° to 187°F	5 Mo.	3 Mo.
INSULATING ONLY					
319,775	Unvulcanized rubber tape	1/32" thick by 1" wide 45 ft. long roll	- 20° to 167°F	12 Mo.	6 Mo.
319,776	Vulcanized rubber tape	1/32" thick by 1" wide 45 ft. long roll	- 20° to 167°F	24 Mo.	24 Mo.

NOTE: Refer to price list for identification of stock items.

#### MOLD DRESSINGS

APISWAX A302519 – A natural product put up in stick form for easy handling and application. Contact with hot mold melts wax. Thin coat on mold cavity will prevent vulcanized splice from sticking.

JELLY SOAP NOSTIK – A soap-like mixture packed in full pint containers. To use, mix with water to proper consistency. Apply light coat with brush. 305,378-2 - 1 pt. can.

#### BONDING AGENTS

FOR RUBBER – A vulcanizing rubber cement available in full pint cans. Works equally well on Buna S or Neoprene (Googum). 319,756-3 - 1 pt. can.  
FOR NEOPRENE – A cement specially compounded for best results on Neoprene Jacketed Cable. 319,763-3 - 1 pt. can.  
FOR PLASTIC – 319,786-2. A solvent used to clean and condition jacketing for vulcanizing. Available in pt. cans.

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CAM-LOK®

# High-Temperature Connectors

for cable size #2-4/0, 120 V, rated up to 400 A continuous, 670 A intermittent

*Designed for those tough higher-temperature applications, the new Cam-Lok E1012 high-temperature welding connectors and receptacles are ideal for use on stud welders, arc welders, heat-treating/stress-relieving equipment, patch panels and power supplies. If your end result is lower downtime with higher efficiency, start with the safety and reliability of Cam-Lok E1012 High-Temp Connectors.*



Male and female brass contacts offer greater performance and reliability.

## THE E1012 SERIES FEATURES

- ✓ Continuous-duty temperature rating:
  - Insulator 356°F (180°C).
  - Receptacle 356°F (180°C).
- ✓ Exclusive Cam-Lok action for high conductivity.
- ✓ Easy interconnectability.
- ✓ Sleeve and pins manufactured from proprietary high-temperature material.
- ✓ Optional silver-plated contacts for reduced oxidation.
- ✓ Double set-screw termination on contacts for added strength.

## ORDERING INFORMATION

### HIGH TEMPERATURE CONNECTORS

Complete Kit Number	Double Set-Screw Contact	Insulator	Pin No.
Male E1012-88	200639-4 Brass	101037-2	100091-22
Female E1012-98	200641-10 Brass	101036-2	100091-22
Male E1012-85	200639-9 Brass (silver-plated)	101037-2	100091-22
Female E1012-95	200641-11 Brass (silver-plated)	101036-2	100091-22

### HIGH TEMPERATURE PANEL-MOUNTED RECEPTACLES

Male	E1012-508
Female	E1012-502

#### For more information:

If further assistance is required, please contact an authorized Crouse-Hinds Distributor, Crouse-Hinds Sales Office or Crouse-Hinds Customer Service Department.

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