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HYGROUND™ IRREVERSIBLE COMPRESSION GROUNDING AND INSTALLATION TOOLING

D-1

LIGHTNING PROTECTION INFO.

Basic rules for selection are:

1. Must be like material to the conductor.
2. Two bolts to ground rod — minimum, for mechanical.
3. Cable to cable connections can be anything — one bolt, two bolt, compression, etc.
4. Cable to steel structure must have 8 in.^{2} contact with steel.
5. Heavy duty stacks — mechanical only.
6. On all connectors with heavy duty stack rating, we must offer 1/16" thick lead plating as an option. Reason is closest 25 ft. to stack opening must use lead coated product.
7. UL 96 Listing.

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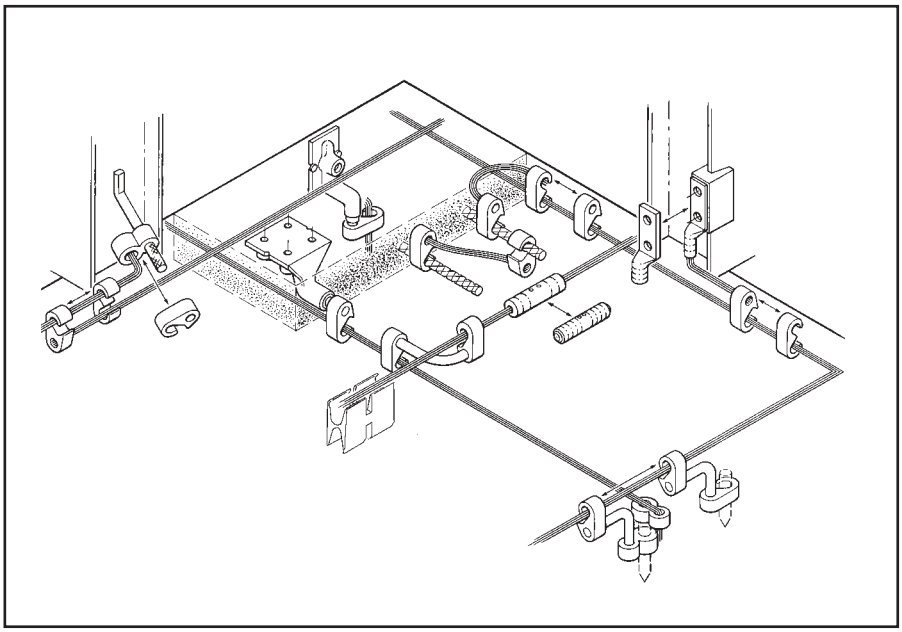
MECHANICAL GROUNDING (Continued)

THE HYGROUND™ IRREVERSIBLE COMPRESSION SYSTEM

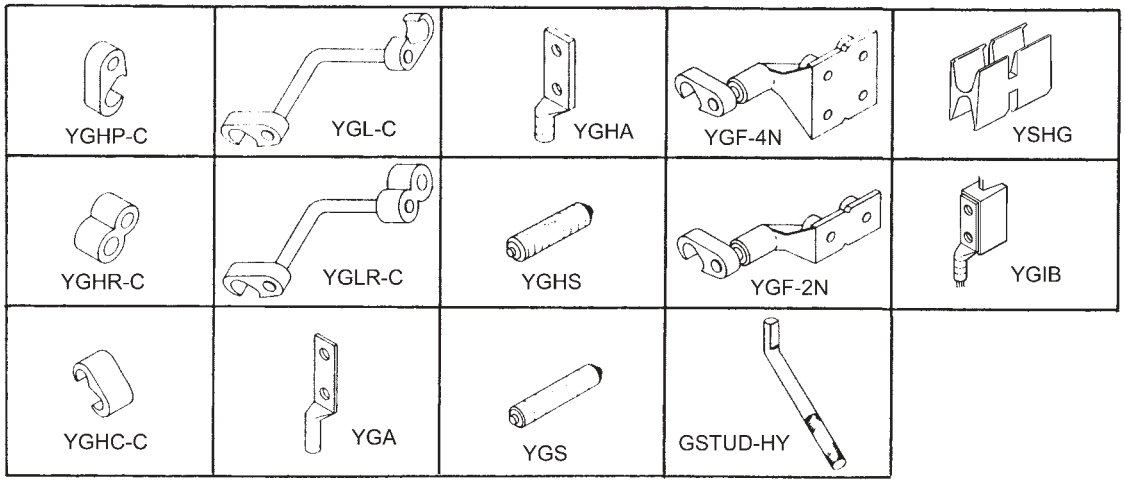
BURNDY® has developed an irreversible compression ground system which meets the most stringent safety and performance requirements, including those of OSHA and nuclear power plant design. Performance excellence and long life expectancy are the system's basic design guidelines. It is a complete system which consists of connectors for grid cross connections, taps, splices, cable to ground rod, ground plates and terminations.

Our irreversible compression ground connectors employ well-proven design principles and technology that have been in existence for over 60 years.

Connectors are just one component of our Irreversible Compression Ground System. Installation tooling is also an integral part of this system. BURNDY® pioneered the compression connector principle and continues today to be the leader in compression technology. Our tooling package is the most extensive in the industry and affords the user many options.



(LEGEND)



THE HYGROUND™ IRREVERSIBLE COMPRESSION SYSTEM (Continued)

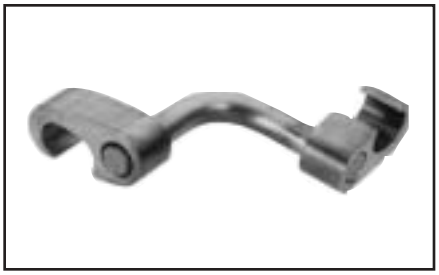
Features and Benefits

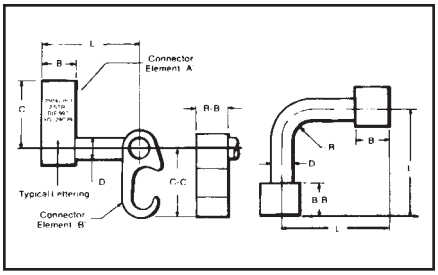
- Irreversible compression.
  ◊ Meets 1999 NEC code, section 250-50 and 250-64.
- Material-pure wrought copper extrusions, rod and seamless tubing—identical material to the conductor.
  ◊ Completely eliminates the possibility of corrosion due to dissimilar metals.
- Heavy duty connector design.
  ◊ All connectors will carry the equivalent or greater current carrying capacity of the conductor while maintaining high mechanical strength and electrical integrity.
- Range taking design—minimum number of connector combinations required to install a conductor range of #6 solid to 500 kcmil plus 1/2″, 5/8″, 3/4″, and 1″ ground rods and rebar.
  ◊ Inventories are kept to a minimum and product selection is simplified.
- System engineered tooling.
  ◊ Each tooling recommendation has been designed to ensure reliability of the connection.
- Irreversible compression connectors can be installed in all kinds of weather.
  ◊ Eliminates costly construction delays and enables the installer to better schedule his job.
- May be installed without special training or special tools. Y750 crimps entire range.
  ◊ Low installed cost.
  Simplified installation.
- Each connection can be made in less than 3 minutes.
  ◊ Low installed cost.
  Simplified installation.
- Non-hazardous process installation. Does not produce heat or dangerous particles.
  ◊ Safe.
  No need for special protective equipment or clothing.
- Each connector is clearly marked with catalog number, conductor size and installation die information.
  ◊ Easy and accurate identification.
- Inspection ports are provided to assure proper insertion of the conductor.
  ◊ Built-in quality assurance.
- The die index number is embossed on the connector after completion of the crimp.
  ◊ Facilitates speedy inspection of installed connectors to insure consistently reliable and sound connections.
- Most HYGROUND™ irreversible compression elements are prefilled with PENETROX® and individually sealed in clear polyethylene sheet.
  ◊ Ensures that all contact surfaces are in the proper condition for installation.
  ◊ Ensures the electrical integrity of the finished connection by inhibiting moisture and contaminates from entering the contact area.
- All HYGROUND™ irreversible compression connectors are Listed in conformance with Underwriters Laboratories Standard UL467 and conform to applicable sections of the National Electrical Code.
  ◊ May be used in direct burial or concrete embedded grounding applications.
- All HYGROUND™ irreversible connectors (with the exception of type YGA and YGS) have been tested successfully according to requirements of Standard IEEE 837 latest revision.
  ◊ Meets tough industry performance requirements.
  ◊ UPRECRIMP™ dies give added mechanical strength. UPRECRIMP™ 34 for 3/4" rod, UPRECRIMP™ 12 for 1/2" rod, and UPRECRIMP™ 58 for 5/8" rod (now includes undersized U.S. market place rods).
- Allows connection to most sizes of structural steel with no drilling, tapping, or welding.
  ◊ Safely installed at low cost. Hot work permits are not required to install in hazardous areas

TYPE YGL-C

HYGRID CROSS CONNECTOR

An irreversable compression ground grid cross connector which allows adjustment of the compression elements prior to installation. Only six connectors and four dies are required to install all combinations from #6 solid through 500 kcmil. UL467 Listed. Acceptable for direct burial in earth and concrete. Prefilled with PENETROX® compound and strip sealed.

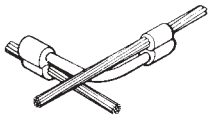


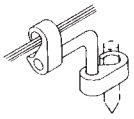


UL 467 96

CSA

MEETS ALL IEEE 837 REQUIREMENTS


Ground Grid Cross Connection


Cable to Ground Rod

CATALOG NUMBER	B	B-B	C	C-C	D	L	R
YGL2C2	.75	.75	1.09	1.09	.313	2.50	.31
YGL29C2			1.66				
YGL29C29				1.66	.500		.50
YGL34C2			2.09	1.09	.313		.31
YGL34C29				1.66	.500		.50
YGL34C34	1.10	1.10	2.28	2.28	.750		.75

UL96 Listed for Lightning Protection.

DIRECT BURIAL

D-5

ORDERING INFORMATION

CATALOG NUMBER	CABLE TO CABLE		CABLE TO GROUND ROD		TO REBAR
	ELEMENT "A"	ELEMENT "B"	ELEMENT "A"	ELEMENT "B"	ELEMENT "A"
YGL2C2	#6 SOL. (.162) – #2 STR. (.292) {59500} – {59500}	#6 SOL. (.162) – #2 STR. (.292) {59500} – {59500}			
YGL29C2	#1 STR. (.332) – 250 kcmil (.575) {98500} – {131500}		1/2" – 5/8" Rod	#6 SOL. (.162) – #2 STR. (.292)	3/8" – 1/2"
YGL29C29	#2 STR. (.292) – 250 kcmil (.575) {65500} – {131500}	#2 STR. (.292) – 250 kcmil (.575) {65500} – {131500}		#2 STR. (.292) – 250 kcmil (.575)	#3 – 4 Rebar
YGL34C2	250 kcmil (.575) – 500 kcmil (.813)	#6 SOL. (.162) – #2 STR. (.292)	5/8" – 3/4" Rod	#6 SOL. (.162) – #2 STR. (.292)	5/8" – 3/4" #5 – 6 Rebar
YGL34C29		#2 STR. (.292) – 250 kcmil (.575)		#2 STR. (.292) – 250 kcmil (.575)	
YGL34C34		250 kcmil (.575) – 500 kcmil (.813)		250 kcmil (.575) – 500 kcmil (.813)	

Dimensions in brackets { } represent lightning protection conductors.

CATALOG NUMBER	INSTALLATION TOOLS, DIE SET CAT. NO. (NUMBER OF CRIMPS)							
	Y750/735/Y39 HYPRESS		PAT750-18V		Y45 HYPRESS		Y46 HYPRESS	
	ELEMENT "A"	ELEMENT "B"	ELEMENT "A"	ELEMENT "B"	ELEMENT "A"	ELEMENT "B"	ELEMENT "A"	ELEMENT "B"
YGL2C2	U-0 (1)	U-0 (1)	U-0 (1)	U-0 (1)	U-0 (1)	U-0 (1)	U-0 (1)	U-0 (1)
YGL29C2	U997 (1)	U-0 (1)	③ U997P (1)	U-0 (1)	U997 (1)	U-0 (1)	U997 (1)	U-0 (1)
YGL29C29	U997 (1)	U997 (1)	③ U997P (1)	③ U997P (1)	U997 (1)	U997 (1)	U997 (1)	U997 (1)
YGL34C2*	PU998 (1)	U-0 (1)	PU998 (1)	U-0 (1)	S998 or PU998 (1)	U-0 (1)	P998 or PU998 (1)	U-0 (1)
YGL34C29*	PU998 (1)	U997 (1)	PU998 (1)	③ U997P (1)	S998 or PU998 (1)	U997 (1)	PU998 or PU998 (1)	U997 (1)
YGL34C34*	U1011 (3)	U1011 (3)	U1011 (3)	U1011 (3)	S1011 (3)	S1011 (3)	P1011 (3)	P1011 (3)

1. Where a "U" or "PU" die is recommended with Y45 HYPRESS™, a PT6515 adapter must be used.
2. Where a "U" or "PU" die is recommended with the Y46 HYPRESS™, a PUADP-1 adapter must be used.

③ Polarized die for the PAT750-18V.

* These connectors can only be installed using the Y750, Y45, or Y46 HYPRESS™ with the recommended dies. These connectors CANNOT be installed with the Y35 and Y39 HYPRESS™.

NOTES:

- Before crimping, both connector elements can be turned on rod diameter "D" to any desired position.
- Clean rust and/or protective coatings from rebar prior to installation.
- When attaching connector to ground rod, ground rod must be embossed with appropriate PRE-CRIMP™ die. For connections that must meet IEEE 837 requirements UPRECRIMP™ - type PRE crimp dies must be used for maximum clamping retention.

GROUND ROD DIA.	PRECRIMP DIES	
1/2″	UPRECRIMP 12	U2CABT
5/8″	UPRECRIMP 58	
3/4″	UPRECRIMP 34	

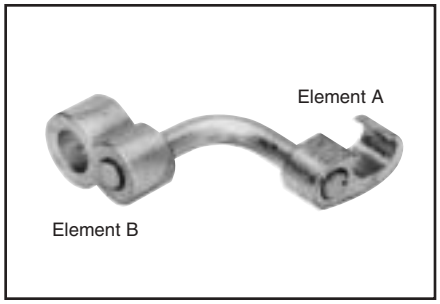
TYPE YGLR-C

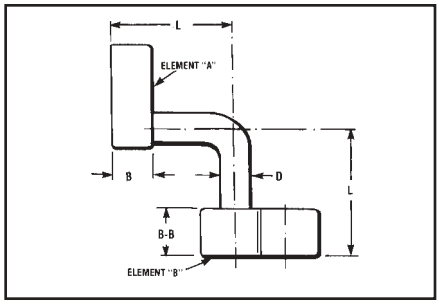
GRIDLOK

High Strength
Irreversible
Compression Ground Rod to
Grid Connector

Ground grid connector for a wide range of copper cable to ground rod. Provides high torque strength on ground rod. UL467 Listed. Acceptable for direct burial in earth and concrete. Prefilled with PENETROX® compound and strip sealed.

D-6





MEETS ALL IEEE 837 REQUIREMENTS

CATALOG NUMBER	COMMERCIAL COPPER CABLE RANGE ELEMENT "A"	METRIC COPPER CABLE RANGE ELEMENT "A"	COPPER WELD CABLE RANGE ELEMENT "A"	GROUND ROD DIA. ELEMENT "B"	B	B-B	D	L	INSTALLATION TOOLS, DIE SET CAT. NO., (NUMBER OF CRIMPS)							
									Y35/Y39 HYPRESS™		Y750 HYPRESS™		Y45 HYPRESS™		Y46 HYPRESS™	
									ELEMENT "A"	ELEMENT "B"	ELEMENT "A"	ELEMENT "B"	ELEMENT "A"	ELEMENT "B"	ELEMENT "A"	ELEMENT "B"
YGLR29C12	#2 Str. (.292 Dia.) thru 250 kcmil (.575 Dia.)	35mm² (7.62mm Dia.) thru 120 mm² (14.40mm Dia.)	91.65 kcmil (.343 Dia.) thru 248.8 kcmil (.572 Dia.)	1/2" [12.7]	.75 [19.1]	.88 [22.4]	.313 [7.9]	2.53 [64.3]	U997 (1)	PU998 (1)	U997 (1)	U1011 (2) or PU998 (1)	U997 (1)	S1012 (2) or PU998 (1)	U997 (1)	P1011(2) or PU998 (1)
YGLR34C12	250 kcmil (.575 Dia.) thru 500 kcmil (.813 Dia.)	120 mm² (14.40mm Dia.) thru 240 mm² (20.35mm Dia.)	248.8 kcmil (.572 Dia.) thru 498.8 kcmil (.810 Dia.)						—		U1011 or PU998 (1)		S998 or PU998 (1)		P998 or PU998 (1)	
YGLR29C58	#2 Str. (.292 Dia.) thru 250 kcmil (.575 Dia.)	35 mm² (7.62mm Dia.) thru 120 mm² (14.40mm Dia.)	91.65 kcmil (.343 Dia.) thru 248.8 kcmil (.572 Dia.)	5/8" [15.9]					U997 (1)	PU998 (1)	U997 (1)		U997 (1)		U997 (1)	
YGLR34C58	250 kcmil (.575 Dia.) thru 500 kcmil (.813 Dia.)	120 mm² (14.40mm Dia.) thru 240 mm² (20.35mm Dia.)	248.8 kcmil (.572 Dia.) thru 498.8 kcmil (.810 Dia.)						—		U1011 or PU998 (1)		S998 or PU998 (1)		P998 or PU998 (1)	
YGLR29C34	#2 Str. (.292 Dia.) thru 250 kcmil (.575 Dia.)	35 mm² (7.62mm Dia.) thru 120 mm² (14.40mm Dia.)	91.65 kcmil (.343 Dia.) thru 248.8 kcmil (.572 Dia.)	3/4" [19.1]			.500 [12.7]	2.63 [66.8]	U997 (1)	PU998 (1)	U997 (1)		U997 (1)		U997 (1)	
YGLR34C34	250 kcmil (.575 Dia.) thru 500 kcmil (.813 Dia.)	120 mm² (14.40mm Dia.) thru 240 mm² (20.35mm Dia.)	248.8 kcmil (.572 Dia.) thru 496.8 kcmil (.810 Dia.)						—		U1011 (2) or PU998		U1011 (2) or PU998		U1011 (2) or PU998	
YGLR29C100	#2 Str. (.292 Dia.) thru 250 kcmil (.575 Dia.)	35 mm² (7.62mm Dia.) thru 120 mm² (14.40mm Dia.)	91.65 kcmil (.343 Dia.) thru 248.8 kcmil (.572 Dia.)	1" [25.4]						—	U997 (1)		U997 (1)		U997 (1)	
YGLR34C100	250 kcmil (.575 Dia.) thru 500 kcmil (.813 Dia.)	120 mm² (14.40mm Dia.) thru 240 mm² (20.35mm Dia.)	248.8 kcmil (.572 Dia.) thru 498.8 kcmil (.810 Dia.)	1" [25.4]							U1011 (2) or PU998 (1)		U1011 (2) or PU998		U1011 (2) or PU998	

NOTES:

1. Before crimping, both connector elements can be turned on rod diameter 'D' to any desired position.
2. Grooves are filled with PENETROX®.
3. Suitable for direct burial in earth or concrete.
4. The catalog numbers shown are for unplated copper connectors for use on copper clad or stainless steel ground rod. To order electro-tin plated connectors for use on galvanized steel ground rod add suffix "TN" to the catalog number, only if the Figure 8 connector (Element "B") is tin plated, the Figure 6 connector (Element "A") is unplated. Note: The ground rod hole diameter is larger for galvanized steel ground rod in the tin plated connector.
5. Ground rod must be pre-crimped with die U2CABT (Index No. 348) when crimping the ground rod element (Element "B") with the PU998 dies in the Y750, Y35, Y39, Y45, or Y46 tools. Pre-crimping is not required when the S1012, P1011 or U1011 dies are used. See precrimp die chart.
6. Where a 'U' or 'PU' die is recommended with the Y45 HYPRESS™, a PT6515 adapter must be used.
7. Where a 'U' or 'PU' die is recommended with the Y46 HYPRESS™, a PUADP-1 adapter must be used.
8. Dimensions in bracket [ ] are in millimeters.
9. Die "1011" appears on Element "B" of the connector only.

GROUND ROD DIA.	PRECRIMP DIES	
1/2"	UPRECRIMP 12	U2CABT
5/8"	UPRECRIMP 58	
3/4"	UPRECRIMP 34	

When attaching connector to ground rod, ground rod must be embossed with appropriate PRE-CRIMP™ die. For connections that must meet IEEE 837 requirements UPRECRIMP™ - type PRE crimp dies must be used for maximum clamping retention.

TYPE YGHP-C

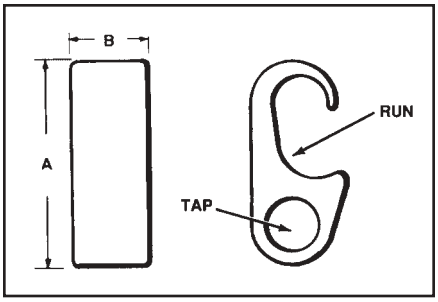
HYTAP™ CONNECTOR

Irreversible compression ground tap figure 6 can be used as a tap connector or as a tap splice connector. Four die sets and eight connectors can accommodate a conductor range from #8 solid through 500 kcmil plus 1/2", 5/8", and 3/4" copper bonded ground rods. UL467 Listed. Acceptable for direct burial in earth and concrete. Prefilled with PENETROX® compound and strip sealed.

MEETS ALL IEEE 837 REQUIREMENTS

UL 467 96

UL96 Listed for Lightning Protection.



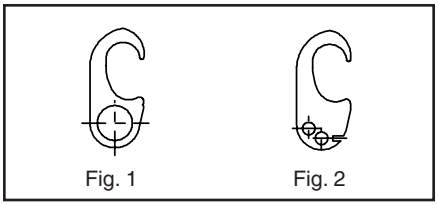


Fig. 1 Fig. 2

CATALOG NUMBER	FIG. NO.	ACCOMMODATES RUN	ACCOMMODATES TAP	⑤ CABLE TO REBAR RUN	⑤ CABLE TO REBAR TAP	B	DIE INDEX NO.	INSTALLATION DATA Y750/Y35 Y39 HYPRESS™	INSTALLATION DATA PAT750-18V	INSTALLATION DATA ③ Y45 HYPRESS™	INSTALLATION DATA ④ Y46 HYPRESS™	NO. OF CRIMPS
YGHP2C2	1	#6 SOL. (0.162) {59500} – #2 STR. (0.292) {59500}	① #6 SOL. (0.162) {#2 STR.} – #2 STR. (0.292) {#2 STR.}	—	—	.75 [19]	0	U0	U0	U0	U0	1
YGHP2C6W6W⑧	2	#6 SOL. (0.162) – #2 STR. (0.292)	#8 SIK. (0.128) – 6 STR. (0.184) QTY. 2	—	—							
YGHP29C6W6W⑧	2	1/0 STR. (0.372) {98500} – 250 kcmil (0.575) {131500} 1/2" – 5/8" ROD	#8 SOL. (0.128) – 6 STR. (0.184) QTY. 2	#3 REBAR 3/8 THRU 1/2 #4 REBAR	#8 SOL. – 6 STR.		997	U997	⑦ U997P	U997	U997	1
YGHP29C2	1		#4 SOL. (0.204) {#4 SOL.} – #2 STR. (0.292) {#2 STR.}		#2 STR.							
YGHP29C26	1		1/0 STR. (0.372) {98500} – 2/0 STR. (0.419) {98500}		1/0 STR. – 2/0 STR.							
YGHP29C29 ②	1		3/0 STR. (0.470) {131500} – 250 kcmil (0.575) {211500}		3/0 STR. – 250 kcmil							
YGHP34C2 ⑥	1	250 kcmil (0.575) {250 kcmil} – 500 kcmil (0.813) {500 kcmil} 5/8" – 3/4" ROD	#4 SOL. (0.204) – #2 STR. (0.292)	#5 REBAR 5/8 THRU 3/4 #6 REBAR	—		998	PU998	PU998	PU998 or S998	PU998 or P998	1
YGHP34C26 ⑥	1		1/0 STR. (0.372) {98500} – 2/0 STR. (0.419) {98500}		1/0 STR. – 2/0 STR.							
YGHP34C29 ⑥	1		3/0 STR. (0.470) {131500} – 250 kcmil (0.575) {211500}		3/0 STR. – 250 kcmil							
YGHP34C34 ⑥	1	250 kcmil (0.575) – 500 kcmil (0.813) 5/8" – 3/4" ROD	350 kcmil (0.681) – 500 kcmil (0.843)		350 kcmil – 500 kcmil	1.10 [28]	1011	⑥U1011	U1011	S1011	P1011	3

Dimensions in brackets { } represent lightning protection conductors.

NOTES:

① When using #6 Sol. in tap, fold conductor double to improve fill in YGHP2C2.
② For YGHP29C29 when using 3/0 in tap, minimum run conductor is 2/0 STR.
③ Where a 'U' or 'PU' die is recommended with the Y45 HYPRESS™, a PT6515 adapter must be used.
④ Where a 'U' or 'PU' die is recommended with the Y45 HYPRESS™, a P-UADP-1 adapter must be used.
⑤ Clean rust and protective coatings from rebar before connector installation to provide a proper ground connection. Precrimping is not required.
⑥ These connectors can only be installed using the Y750, Y45 or Y46 HYPRESS™ with the recommended dies. These connectors can not be installed with the Y35 and Y39 HYPRESS™.
⑦ Polarized die for the PAT750-18V.
⑧ Not UL96/CSA.

GROUND ROD DIA.	PRECRIMP DIES	
1/2″	UPRECRIMP 12	U2CABT
5/8″	UPRECRIMP 58	
3/4″	UPRECRIMP 34	

For increased rotational resistance on ground rods, pre-crimp ground rod with U2CABT die Index 348 or uprecrimp dies may be used for even greater rotation and vibration resistance on ground rods.

CABLE TO GROUND ROD
CABLE TO REBAR
CABLE TO CABLE
FOR CONCRETE ENCASED ELECTRODE GROUNDING APPLICATIONS

TYPE YGHP-C

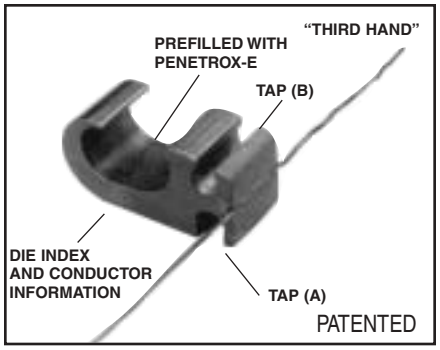
HYTAP™ CONNECTOR

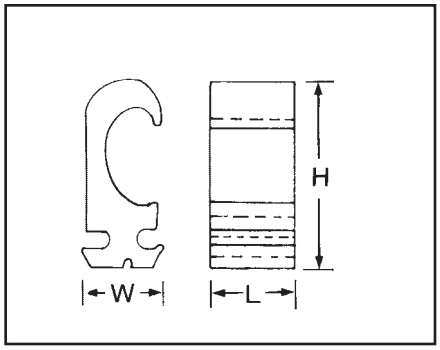
High Strength
Copper Irreversible
Compression

Ground Rod Tap
Connector

Type YGHP-C irreversible compression ground tap figure 6 can be used as a ground rod tap connector for both continuous run and tapping applications. An open groove allows ground rod to be connected to a continuous run or tap. The second groove is for a tap only. Prefilled with PENETROX-E® and strip sealed. UL467 Listed for direct burial in earth or concrete.

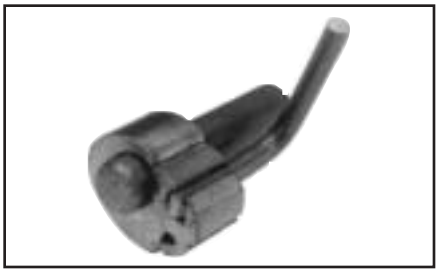
MEETS ALL IEEE 837 REQUIREMENTS



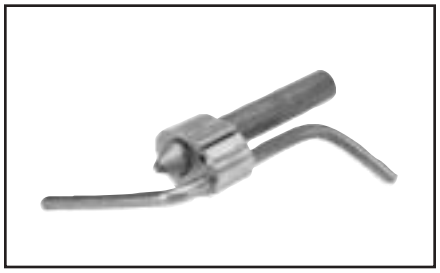


Features and Benefits

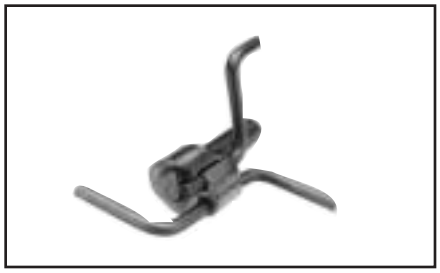
- Tap (A) accepts a continuous run on tap conductor
  Tap (B) accepts a tap conductor only.
  ◊ One connector style can be used for many applications, reducing number of connectors in inventory.
- Material is high conductivity wrought copper extrusion, identical material to the conductor.
  ◊ High-conductivity copper minimizes resistance and voltage drop. Eliminates the possibility of corrosion due to dissimiliar metals.
- System engineered tooling.
  ◊ The tooling recommendation has been designed to ensure a reliable, dependable connection every time.
- The die index number is embossed on conductor after completion of crimp.
  ◊ Faciliates speedy inspection of installed connectors to insure consistently reliable and dependable connections.
- Prefilled with PENETROX® and individually sealed in clear polyethylene sheet.
  ◊ Ensures the electrical integrity of the finished connection by inhibiting moisture and contaminates from entering the contact area. Maintains long-term high-conductivity.
- UL467 Listed.
  ◊ May be used in direct burial or concrete embedded grounding applications. Provides quality assurance to recognized industry NEC standards from an independent party.
- "Third Hand" constrains conductors while installer completes crimp. Included with each connector.
  ◊ Simplifies installation, reducing installed cost.



SINGLE TAP



CONTINUOUS RUN



CONTINUOUS RUN AND TAP

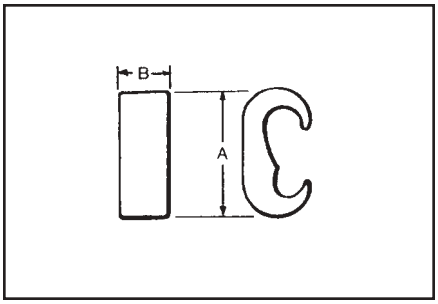
CATALOG NUMBER	GROUND ROD DIA. ■	TAP CONDUCTOR +	DIMENSIONS			▲ INSTALLATION TOOLING				DIE INDEX
						Y35/Y750		Y46 •		
			H	B	W	DIE NO.	NO. OF CRIMPS	DIE NO.	NO. OF CRIMPS	
YGHP58C2W-2 YGHP58C2W-2TN	1/2″ - 5/8″	#2 Sol. - #6 Sol. Copper (1) Continuous run and (1) Tap or up to (2) taps may be connected.	1.90″	.75″	.94″	U997	(1)	U997	(1)	997

NOTE: A 12" bend radius is recommended for the conductor.
• Use PUADP-1 with 'U'-dies in Y46.
▲ See tooling section in Master Catalog for complete tool and die listing.
+ Either tap position may be left void when fewer than (2) conductors are used.
■ Ground rod must be precrimped with die U2CABT (Index No. 348).
For even greater rotational resistance use U-PRECRIMP die.
For Galvanized Steel Rods order YGHP58C2W-2TN.

TYPE YGHC-C

HYTAP™ CONNECTOR

Irreversible compression ground tap figure "C" connectors. Accomodates all cable combinations from #6 solid through 500 kcmil. "C"- shaped opening permits placing two continuous parallel cables into conductor groove. UL 467 Listed. Acceptable for direct burial in earth or concrete. Prefilled with PENETROX® compound and strip sealed.



MEETS ALL IEEE 837 REQUIREMENTS

UL 467 96

CSA

DIRECT BURIAL

↝ UL96 Listed for Lightning Protection.

CATALOG NUMBER	COMMERCIAL COPPER CABLE RANGE		STRANDED COPPER CABLE RANGE		A	B	DIE INDEX NO.	INSTALLATION DATA			NO. OF CRIMPS
	RUN	TAP	RUN	TAP				Y750/Y35 Y39 HYPRESS™	① Y45 HYPRESS™	② Y46 HYPRESS™	
YGHC2C2	#6 SOL. (0.162) #2 STR. (0.292)	#6 SOL. (0.162) #2 STR. (0.292)	10 mm² (4.12 mm) 35 mm² (7.62 mm)	10 mm² (4.12 mm) 35 mm² (7.62 mm)	1.16 [30]	0.75 [19]	C	U-C	U-C	U-C	1
YGHC26C2	1 STR. (0.328) {98500} 2/0 STR. (0.419) {98500}	#6 SOL. (0.162) {#6 SOL.} #2 STR. (0.292) {#2 STR.}	35 mm² (7.62 mm) 70 mm² (10.9 mm)	10 mm² (4.12 mm) 35 mm² (7.62 mm)	1.41 [36]	0.75 [19]	0	U-O	U-O	U-O	1
YGHC26C26	1 STR. (0.328) {98500} 2/0 STR. (0.419) {98500}	1 STR. (0.328) {98500} 2/0 STR. (0.419) {98500}	35 mm² (7.62 mm) 70 mm² (10.9 mm)	35 mm² (7.62 mm) 70 mm² (10.9 mm)	1.54 [39]	0.75 [19]	0	U-O	U-O	U-O	1
YGHC29C26	3/0 STR. (0.470) {3/0 STR.} 250 kcmil (0.575) {250 kcmil}	6 SOL. (0.419) {59500} 2/0 STR. (0.419) {98500}	95 mm² (12.5 mm) 120 mm² (14.4 mm)	10 mm² (4.12 mm) 70 mm² (10.9 mm)	1.97 [50]	0.75 [19]	997	U997	U997	U997	1
YGHC29C29	3/0 STR. (0.470) 250 kcmil (0.575)	3/0 STR. (0.470) 250 kcmil (0.575)	95 mm² (12.5 mm) 120 mm² (14.4 mm)	95 mm² (12.5 mm) 120 mm² (14.4 mm)	2.06 [52]	0.88 [22]	997	U997	U997	U997	1
YGHC34C26 ⑥	300 kcmil (0.630) {300 kcmil} 500 kcmil (0.813) {500 kcmil}	#6 SOL. (0.162) {59500} 2/0 STR. (0.419) {98500}	150 mm² (16 mm) 240 mm² (20.35 mm)	10 mm² (4.12 mm) 70 mm² (10.9 mm)	2.42 [62]	0.88 [22]	1011	U1011	S1011	P1011	2
YGHC34C29 ⑥	300 kcmil (0.630) 500 kcmil (0.813)	3/0 STR. (0.470) 250 kcmil (0.575)	150 mm² (16 mm) 240 mm² (20.35 mm)	95 mm² (12.5 mm) 120 mm² (14.4 mm)	2.67 [66]	0.88 [22]	1011	U1011	S1011	P1011	2
YGHC34C34 ⑥	300 kcmil (0.630) 500 kcmil (0.813)	300 kcmil (0.630) 500 kcmil (0.813)	150 mm² (16 mm) 240 mm² (20.35 mm)	150 mm² (16 mm) 240 mm² (20.35 mm)	2.91 [74]	1.1 [28]	1011	U1011	S1011	P1011	3

Dimensions in brackets { } represent lightning protection conductors.

NOTES:

① Where a "U" or "PU" die is recommended with the Y45 HYPRESS™, PT6515 adapter must be used.

② Where a "U" or "PU" die is recommended with the Y46 HYPRESS™, a PUADP-1 adapter must be used.

3. Listed under UL486A for copper wire connectors

4. Dimensions in brackets [ ] are in millimeters.

5. In referencing connectors without PENETROX® oxide inhibitor add suffix "NP" to the end of the Catalog Number.

⑥ These connectors can only be installed using the Y750, Y45 or Y46 HYPRESS™ with the recommended dies.
These connectors cannot be installed with the Y35 and Y39 HYPRESS™.

TYPE YGC

COPPER CRIMPIT™

UL 467 Listed for direct burial in earth or concrete. Prefilled with PENETROX® E2 oxide inhibitor.

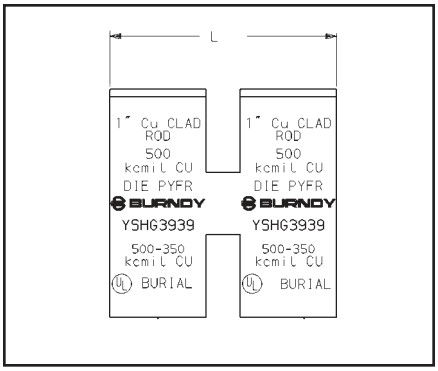
CATALOG NUMBER	COPPER CONDUCTOR		H	L	INDEX	OUR840	MD6/MD7	CRIMPS
	RUN	TAP						
YGC8C8	#8 SOL. #8 STR.	#8 SOL. #8 STR.	.46	.52	162	W162	W162	2
YGC6C8	#6 SOL. #6 STR.	#8 SOL. #8 STR.	.73	.62	BG	XBG	WBG	2
YGC6C6	#6 SOL. #6 STR.	#6 SOL. #6 STR.	.76	.62	BG	XBG	WBG	2

TYPE YSHG

HIGH STRENGTH COPPER IRREVERSIBLE COMPRESSION

Double H-Tap Connector

Type YSHG Double H-Tap grounding series is comprised of five connectors designed to accommodate wire range sizes #14 through 500 kcmil, including ground rod sizes: 3/4", 1", and rebar sizes: #6, #8 and #9. Prefilled with PENETROX® E2 and strip sealed.



Features and Benefits

- UL467 Listed.
  ◊ Suitable for direct burial in earth or concrete.
- Material is high conductivity copper extrusion.
  ◊ Minimizes resistance, eliminates corrosion due to dissimilar metals.
- Grooves are prefilled with PENETROX® E2 oxide inhibitor and individually sealed.
  ◊ Inhibits moisture and contaminants ensuring electrical integrity.

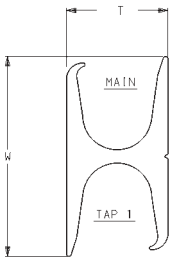


Fig. 1

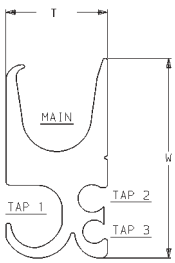


Fig. 2

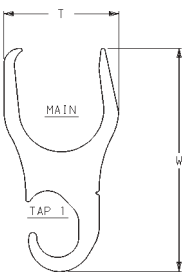


Fig. 3

CATALOG NUMBER	FIG. NO.	CONDUCTOR SIZES				TOOLING (*NUMBER OF CRIMPS)				INDEX EMBOSS-MENT	W ±.06	T ±.04	L ±.06
		MAIN	TAP 1	TAP 2	TAP 3	Y750	*	Y46	*				
YSHG4429	3	#9 & #8 REBAR, 1″ [25] GROUND ROD	250 - 2					PYFR	2	K-R	3.22 [82]	1.70 [43]	2.44 [62]
* YSHG3939	1	1″ [25] Cu CLAD GROUND ROD 500 kcmil COPPER	500 - 350					PYFR	2	K-R	2.97 [75]	1.50 [38]	2.94 [75]
* YSHG3931	2	#6 REBAR, 1″ [25] Cu CLAD GROUND ROD, 3/4″ GROUND ROD 500 - 350 kcmil COPPER	4/0 - 1/0	1 - 6	2 - 14			PYFR	2	K-R	2.97 [75]	1.50 [38]	2.34 [59]
YSHG3434	1	#6 REBAR, 3/4″ [19] GROUND ROD 400 - 250 kcmil COPPER	400 - 4/0			U1104	4	P1104 †U1104	2 4	1104	2.43 [62]	1.15 [29]	2.44 [62]
YSHG3429	2	#6 REBAR, 3/4″ [19] GROUND ROD 400 - 4/0 kcmil COPPER	3/0 - 1/0	1 - 4	8 - 14	U1104	4	P1104 †U1104	2 4	1104	2.23 [57]	1.31 [33]	2.44 [62]

* NOTE: Not for use on 1″ steel ground rod.
† Use PUADP-1 adapter.

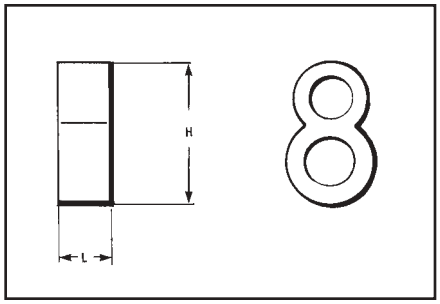
TYPE YGHR-C

HYTAIL™

High Strength
Irreversible
Compression Ground Rod Tap
Connectors

High torque strength ground rod connectors. Accommodates a wide range of copper conductors to ground rod. UL467 Listed. Acceptable for direct burial in earth or concrete. Prefilled with PENETROX® compound and strip sealed.

D-12



MEETS ALL IEEE 837 REQUIREMENTS

CATALOG NUMBER	H	B
YGHR26C12	1.94″ [49.3]	.88″ [22.4]
YGHR26C58	1.97″ [50.0]	
YGHR26C34	2.19″ [55.6]	
YGHR26C100	2.55″ [56.2]	
YGHR29C12	1.94″ [49.3]	
YGHR29C58	2.14″ [54.4]	
YGHR29C34	2.19″ [55.6]	
YGHR29C100	2.45″ [62.2]	
YGHR34C58	2.14″ [54.4]	
YGHR34C34	2.44″ [62.0]	
YGHR34C100	2.70″ [68.6]	

CATALOG NUMBER	COMMERCIAL COPPER CABLE RANGE	NOMINAL GROUND ROD DIA.	INSTALLATION TOOLS, DIE SET CAT. NO. (NUMBER OF CRIMPS)		
			Y750/Y35/Y39 ①	Y45 HYPRESS ①	Y46 HYPRESS ①
YGHR26C12	#2 STR. (.292 DIA.) thru 2/0 STR. (.419 DIA.)	1/2″ [12.7]	U1011 (2) ④ PU998 (1)	S1012 (2) ④ PU998 (1) ②	P1011 (2) ④ PU998 (1) ③
YGHR26C58		5/8″ [15.9]			
YGHR26C34		3/4″ [19.0]			
YGHR26C100*		1″ [25.4]		S1011 (2) S1012 (2) PU998 (1)	
YGHR29C12	#4/0 STR. (.528 DIA.) thru 250 kcmil (.575 DIA.)	1/2″ [12.7]		S1012 (2) ④ PU998 (1) ②	
YGHR29C58		5/8″ [15.9]			
YGHR29C34		3/4″ [19.0]			
YGHR29C100*		1″ [25.4]		S1011 (2) S1012 (2) ④ PU998 (1)	
YGHR34C58	300 kcmil (.630 DIA.) thru 500 kcmil (.813 DIA.)	5/8″ [15.9]		④ S1012 (2) PU998 (1) ②	
YGHR34C34*		3/4″ [19.0]			
YGHR34C100*		1″ [25.4]		S1011 (2)	P1011 (2)

NOTES:

- The catalog numbers shown are for unplated copper connectors for use on copper clad or stainless steel ground rod. To order electro-tin plated connectors for use on galvanized steel ground rod add suffix "TN" to the catalog number. Note: The ground rod hole diameter is larger for galvanized steel ground rod in the tin plated connector.

① Ground rod must be pre-crimped with die U2CABT (Index No. 348) when the PU998 dies are used in the Y750, Y35, Y39, Y45, or Y46 tools. Pre-crimping is not required when the P1011, S1011, S1012 or U1011 dies are used. UPRECRIMP™ dies may be used for additional mechanical resistance on ground rods.

② Where a PU998 die is recommended with the Y45 HYPRESS™, a PT6515 adapter must be used.

③ Where a PU998 die is recommended with the Y46 HYPRESS™, a PUADP-1 adapter must be used.

④ These die numbers do not appear on the connector.

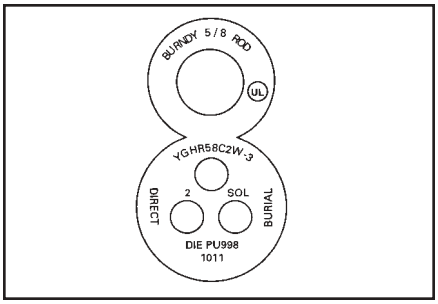
* These connectors can only be installed using the Y750, Y45 or the Y46 HYPRESS™ with the recommended dies. These connectors CAN NOT be installed with the Y35 and Y39 HYPRESS™. When attaching connector to ground rod, ground rod must be embossed with appropriate PRECRIMP™ die. For connections that must meet IEEE 837 requirements UPRECRIMP™ - type PRE crimp dies must be used for maximum clamping retention.

TYPE YGHR-C

HYTAIL™

High Strength
Irreversible
Compression Ground Rod Tap
Connectors

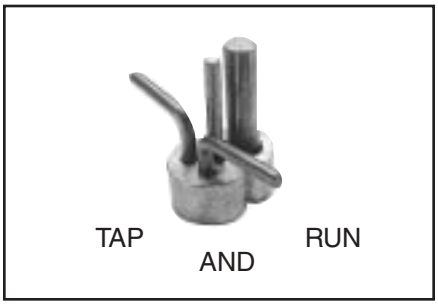
Type YGHR-C irreversible compression grounding connector is engineered specifically for the Telecommunications Industry for (1, 2 or 3) #2 solid, tinned or bare conductor taps. UL467 Listed. Acceptable for direct burial in earth or concrete. BURNDY® has designed this connector to meet the stringent requirements of OSHA, the National Electric Code (NEC), UL, and the Telecommunications Industry. Performance and long life are this connector's basic design guidelines.



Features and Benefits

- Tap side 1, 2 or 3 conductors.
  ◊ One connector style can be used for many applications.
- Material is high conductivity wrought copper extrusion, identical material to the conductor.
  ◊ High-conductivity copper minimizes resistance and voltage drop. Eliminates the possibility of corrosion due to dissimilar metals.
- System engineered tooling.
  ◊ Each tooling recommendation has been designed to provide a reliable, dependable connection.
- The die index number is embossed on connector after completion of crimp.
  ◊ Facilitates speedy inspection of installed connectors to ensure consistently reliable and dependable connections.
- Prefilled with PENETROX® and individually sealed in clear polyethylene sheet.
  ◊ Ensures the electrical integrity of the finished connection by inhibiting moisture and contaminates from entering the contact area. Maintains long-term high-conductivity.
- UL 467 Listed. Acceptable for direct burial.
  ◊ May be used in direct burial or concrete embedded grounding applications. Provides quality assurance to recognized industry NEC standards from an independent party.

D-13



CATALOG NUMBER+	GROUND ROD DIAMETER •	TAP CONDUCTOR ▲	INSTALLATION TOOLING				DIE INDEX
			Y35/Y750**		Y46*		
			DIE NO.	NO. OF CRIMPS	DIE NO.	NO. OF CRIMPS	
YGHR58C2W-3	5/8″	#2 Sol. Copper 1, 2, or 3 may be connected	PU998†	(1)	PU998†	(1)	998 or 1011
					U1011	(2)	
			U1011	(2)	P998	(1)	
					P1011	(2)	

• Contact BURNDY® for other ground rod diameters.
* PU998 and U1011 die sets require PUADP-1 adapter for use in the Y46 HYPRESS™.
Tap positions may be left void when fewer than (3) conductors are used.
\+ To order electro-tin plated connector for use on galvanized steel ground rod add suffix -"TN" to the catalog number.
NOTE: The ground rod hole diameter is larger for galvanized steel ground rod in the tin plated connector.

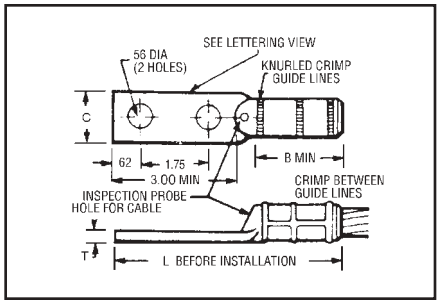
† Ground rod must be precrimped with die U2CABT (Index No. 348) when PU998 die set is used in the Y35, Y750 or Y46
▲ HYPRESS™ tools. For even greater mechanical resistance use UPRECRIMP™ 58 dies.
** The Y750 utilizes PU dies and the U1011 die. The Y35 only uses PU998 die set.
NOTE: A 12" bend radius is recommended for the conductor.

TYPE YGHA

HYLUG™

Heavy Duty Irreversible Compression Terminals

Heavy duty HYLUG™ irreversible compression terminals designed not only to carry short circuit load, but to also withstand high mechanical stress. Each conductor element has an inspection probe hole to insure proper cable insertion. UL467 Listed. Acceptable for direct burial in earth or concrete. UL486A Listed. Prefilled with PENETROX® compound and strip sealed.



MEETS ALL IEEE 837 REQUIREMENTS

D-14

CATALOG NUMBER	COPPER CONDUCTOR SIZE	INSTALLATION TOOLS, DIE SET CAT. NO., AND (NUMBER OF CRIMPS) HYPRESS™ Y35/Y39/Y45 ① /Y46 ② /Y750	B	C	L	T
YGHA2C-2N	2 str.	U1CRT (1)	.75	.97	4.21	.26
YGHA25-2N	1/0 str.	U27RT (1)	.83	.91	4.60	.19
YGHA26-2N	2/0 str.	U28RT (1)	.83	.97	4.38	.26
YGHA27-2N	3/0 str.	U29RT (1)	1.18	1.08	4.94	.29
YGHA28-2N	4/0 str.	U30RT (2)	1.18	1.22	4.94	.30
YGHA29-2N	250 kcmil	U31RT (2)	1.18	1.28	4.94	.34
YGHA31-2N	350 kcmil	U34RT (2)	1.18	1.62	5.00	.43
YGHA34-2N	500 kcmil	U36RT (3)	1.48	1.72	5.42	.40

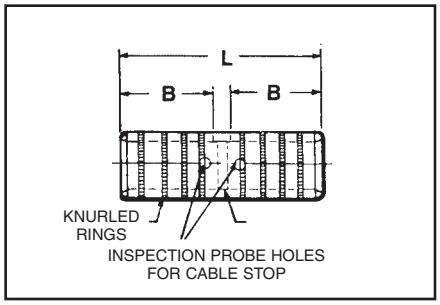
① Where a "U" or "PU" die is recommended with the Y45 HYPRESS™, a PT6515 adapter must be used.
② Where a "U" or "PU" die is recommended with the Y46 HYPRESS™, a PUADP-1 adapter must be used.

TYPE YGHS

HYLINK™

Heavy Duty Irreversible Compression Terminals

Heavy duty HYLINK™ ground splice designed not only to carry short circuit load, but to also withstand high mechanical stress. Each conductor element has an inspection probe hole and a center stop to ensure proper cable insertion. UL467 Listed. Acceptable for direct burial in earth or concrete. UL486A Listed. Prefilled with PENETROX® compound and strip sealed.



MEETS ALL IEEE 837 REQUIREMENTS

CATALOG NUMBER	COPPER CONDUCTOR SIZE	INSTALLATION TOOLS, DIE SET CAT. NO., AND (NUMBER OF CRIMPS) HYPRESS™ Y35/Y39/Y45 ① /Y46 ② /Y750	B	L
YGHS2C	2 str.	U1CRT (1)	.75	1.73
YGHS25	1/0 str.	U27RT (1)	.83	1.89
YGHS26	2/0 str.	U28RT (1)	.83	1.89
YGHS27	3/0 str.	U29RT (1)	1.18	2.59
YGHS28	4/0 str.	U30RT (2)	1.18	2.59
YGHS29	250 kcmil	U31RT (2)	1.18	2.59
YGHS31	350 kcmil	U34RT (2)	1.18	2.59
YGHS34	500 kcmil	U36RT (3)	1.48	3.19

① Where a "U" or "PU" die is recommended with the Y45 HYPRESS™, a PT6515 adapter must be used.
② Where a "U" or "PU" die is recommended with the Y46 HYPRESS™, a PUADP-1 adapter must be used.

TYPE YGA

HYLUG™

Grounding Irreversible Compression Terminals

Irreversible compression HYLUG™ Ground terminal specifically designed for grounding applications. Each connector has an inspection probe hole to insure proper cable insertion. UL467 Listed. Acceptable for direct burial in earth or concrete. UL486A Listed. Prefilled with PENETROX® compound and strip sealed.

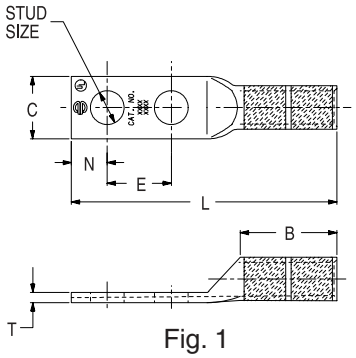


Fig. 1

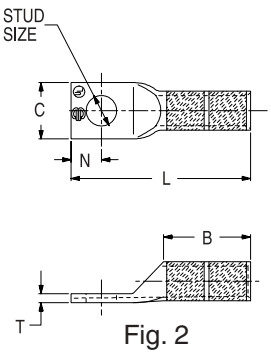


Fig. 2

CATALOG NUMBER	FIG. NO.	COPPER CONDUCTOR SIZE	INSTALLATION TOOLS, DIE SET CAT. NO., AND (NUMBER OF CRIMPS) MECHANICAL Y2MR DIE # (# OF CRIMPS)	MECHANICAL MD7-34R DIE # (# OF CRIMPS)	MECHANICAL OUR840 DIE # (# OF CRIMPS)	HYDRAULIC Y35/Y39/Y45 ① /Y46 ② /Y750 DIE # (# OF CRIMPS)	STUD SIZE	B	C	L	T	E
YGA8C-TC10	2	8 sol./8 str.	Red (4)	W8CVT (2) X8CRT (2)		U8CRT (2)	#10	.81	.41	1.57	.08	—
YGA8C-TC14	2	8 sol./8 str.	Red (4)	W8CVT (2) X8CRT (2)		U8CRT (2)	1/4	.81	.44	1.69	.08	—
YGA8C-TC516	2	8 sol./8 str.	Red (4)	W8CVT (2) X8CRT (2)		U8CRT (2)	5/16	.81	.51	1.75	.06	—
YGA8C-2N	1	8 sol./8 str.	Red (4)	W8CVT (2) X8CRT (2)		U8CRT (2)	1/2	.81	.71	4.09	.05	—
YGA6C-TC10	2	6 sol./6 str.	Blue (4)	W5CVT (2) X5CRT (2)		U5CRT (2)	#10	1.12	.42	1.89	.09	—
YGA6C-TC14	2	6 sol./6 str.	Blue (4)	W5CVT (2) X5CRT (2)		U5CRT (2)	1/4	1.12	.45	2.02	.08	—
YGA6C-TC516	2	6 sol./6 str.	Blue (4)	W5CVT (2) X5CRT (2)		U5CRT (2)	5/16	1.12	.51	2.08	.07	—
YGA6C-2TC38E2G1	1	6 sol./6 str.	Blue (4)	W5CVT (2) X5CRT (2)		U5CRT (2)	3/8	1.12	.58	3.42	.06	.75
YGA6C-2N	1	6 sol./6 str.	Blue (4)	W5CVT (2) X5CRT (2)		U5CRT (2)	1/2	1.12	.83	4.40	.12	1.75
YGA2C-2TC38	1	2 sol./2 str.	Brown (4)	W2CVT (2) X2CRT (2)		U2CRT (2)	3/8	1.25	.60	3.48	.12	1.00
YGA2C-2TC38E2G1	1	2 sol./2 str.	Brown (4)	W2CVT (2) X2CRT (2)		U2CRT (2)	3/8	1.25	.60	3.66	.12	.75
YGA2C-2N	1	2 str.	Brown (4)	W2CVT (2) X2CRT (2)		U2CRT (2)	1/2	1.22	.81	4.71	.12	1.75
YGA25-2N	1	1/0 str.	—	W25VT (4) X25RT (4)		U25RT (2)	1/2	1.35	.81	4.91	.12	1.75
YGA26-2N	1	2/0 str.	—	W26VT (4) X26RT (4)		U26RT (2)	1/2	1.45	.81	4.89	.12	1.75
YGA28-2N	1	4/0 str.	—	W28VT (4) X28RT (4)		U28RT (2)	1/2	1.57	1.00	5.06	.14	1.75
YGA29-2N	1	250 kcmil	—	W29VT (4)		U29RT (2)	1/2	1.57	1.09	5.16	.16	1.75
YGA34-2N	1	500 kcmil	—	W34VT (4)		U34RT (4)	1/2	2.20	1.52	5.94	.23	1.75

① Where a "U" or "PU" die is recommended with the Y45 HYPRESS™, a PT6515 adapter must be used.

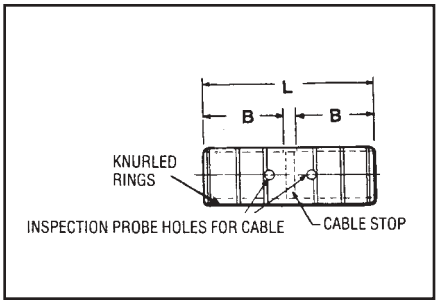
② Where a "U" or "PU" die is recommended with the Y46 HYPRESS™, a PUADP-1 adapter must be used.

TYPE YGS

HYLINK™

Grounding Irreversible Compression Splices

Irreversible compression HYLINK™ ground splices specifically designed for grounding applications. Each conductor element has an inspection probe hole and a center stop to ensure proper cable insertion. UL467 Listed. Acceptable for direct burial in earth or concrete. UL486A Listed. Prefilled with PENETROX® compound and strip sealed.



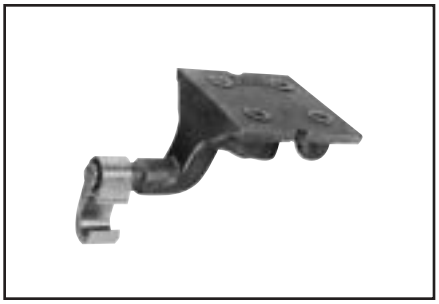
CATALOG NUMBER	COPPER CONDUCTOR SIZE	INSTALLATION TOOLS, DIE SET CAT. NO., AND (NUMBER OF CRIMPS)				B	L
		MECHANICAL			HYDRAULIC		
		Y2MR DIE # (# OF CRIMPS)	MD7-34R DIE # (# OF CRIMPS)	OUR840 DIE # (# OF CRIMPS)	Y35/Y39/Y45① /Y46② /Y750 DIE # (# OF CRIMPS)		
YGS2C	2 str.	Brown (4)	W2CVT (2) X2CRT (2)		U2CRT (2)	1.22	2.67
YGS8C	#8 sol./str.	—	X8CRT, W8CRT, W8CVT ③		U8CRT (2)	.78	1.75
YGS6C	#6 sol./str.	—	X5CRT, W5CRT, W5CVT ③		U6CRT (2)	1.09	2.38
YGS25	1/0 str.	—	W25VT (4) X25RT (4)		U25RT (2)	1.35	2.97
YGS26	2/0 str.	—	W26VT (4) X26RT (4)		U26RT (2)	1.45	3.13
YGS28	4/0 str.	—	W28VT (4) X28RT (4)		U28RT (2)	1.57	3.37
YGS29	250 kcmil	—	W29VT (4)		U29RT (2)	1.57	3.37
YGS34	500 kcmil	—	W34VT (4)	—	U34RT (4)	2.20	4.63

① Where a "U" or "PU" die is recommended with the Y45 HYPRESS™, a PT6515 adapter must be used.
② Where a "U" or "PU" die is recommended with the Y46 HYPRESS™, a PUADP-1 adapter must be used.
③ Use "X" with OUR840, "W" with MD6/MD7.

TYPE YGF

GROUNDING PLATE

The irreversible compression ground plate is designed to withstand the rigors of concrete construction. The ground plates are made of high strength, high-conductivity cast copper alloy body with a pure wrought copper compression element. In addition to the tapped NEMA size holes and spacing on the face, the plate comes with a tapped hole on the underside for ease of positioning prior to pouring the concrete. UL467 Listed. Acceptable for direct burial in earth or concrete. Prefilled with PENETROX® compound and strip sealed.



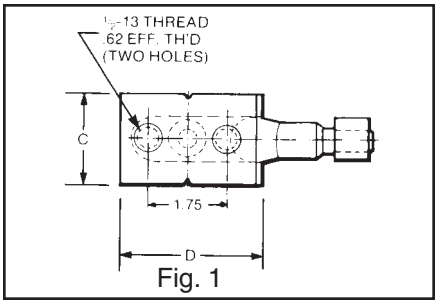


Fig. 1

MEETS ALL IEEE 837 REQUIREMENTS

D-17

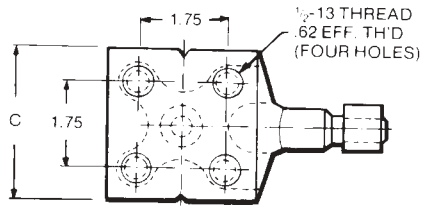
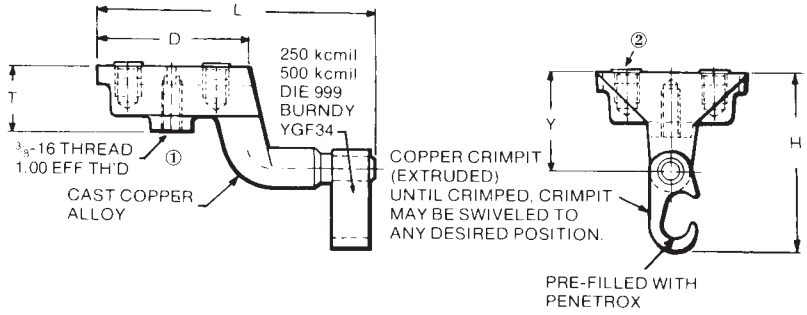


Fig. 2



CATALOG NUMBER	FIG. NO.	C	D	H	L	T	Y
YGF29-2N	1	2.00	3.25	3.62	5.78	1.31	2.00
YGF29-4N	2	3.25	3.25	3.62	5.78	1.31	2.00
YGF34-2N	1	2.00	3.25	4.62	5.40	1.31	2.19
YGF34-4N	2	3.75	3.75	4.62	5.90	1.31	2.19

NOTES:

① This tapped hole may be used to position the grounding plate on a threaded rod prior to placement of the concrete.

① 3/8-16 thread with 1.00 EFF. Thread is standard. If other thread is required, add appropriate Code No. to Catalog No. for desired thread.
-50 (1/2 -13, .94 EFF. Thread), -62 (5/8 -11, .94 EFF. Thread) and -75 (3/4 -10, .81 EFF. Thread)
Example: YGF34-4N-50 is YGF34-4N with 1/2 -13 Thread

② Plastic plugs are provided to keep dirt out of the threaded holes until the attachment of grounding terminals.

CATALOG NUMBER	COPPER CONDUCTOR RANGE	TAPPED HOLES		INSTALLATION TOOLS, DIE SET CAT. NO., AND (NUMBER OF CRIMPS) HYPRESS™		
		SIZE	HOLE CENTERS	Y750/Y35/Y39	Y45 ①	Y46 ②
YGF29-2N	2 - 250 kcmil	1/2 - 13	1-3/4	U997 (1)	U997 (1)	U997 (1)
YGF29-4N	2 - 250 kcmil	1/2 - 13	1-3/4	U997 (1)	U997 (1)	U997 (1)
YGF34-2N*	250 - 500 kcmil	1/2 - 13	1-3/4	U1011 (3)	S1011 (2)	P1011 (2)
YGF34-4N*	250 - 500 kcmil	1/2 - 13	1-3/4	U1011 (3)	S1011 (2)	P1011 (2)

ORDERING INFORMATION

① Where a "U" or "PU" die is recommended with the Y45 HYPRESS™, a PT6515 adapter must be used.

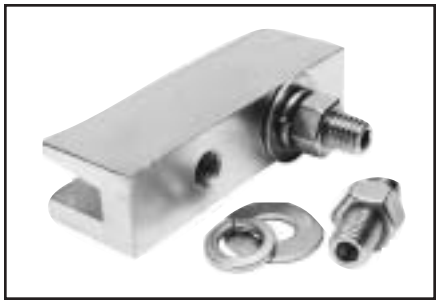
② Where a "U" or "PU" die is recommended with the Y46 HYPRESS™, a PUADP-1 adapter must be used.

* These connectors can only be installed using the Y750, Y45 or Y46 HYPRESS™ with recommended dies. These connectors CAN NOT be installed with the Y35 or Y39 HYPRESS™.

TYPE YGIB

GROUNDLINK™ CONNECTOR

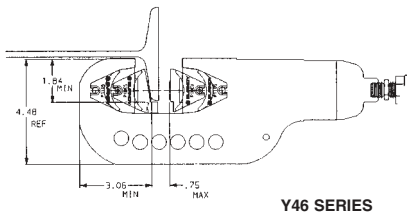
An irreversible compression ground connection which allows attachment to a structural steel standard (angled) or wide flange (parallel) beam. Installed with a required 5-piece die set, Catalog PIBEAMKIT or UIBEAMKIT. Die index 1105. GROUNDLINK™ connectors are made of high-conductivity wrought copper and come pre-filled with PENETROX® E compound and strip sealed. Order terminal mounting hardware separately.



MEETS ALL IEEE 837 REQUIREMENTS

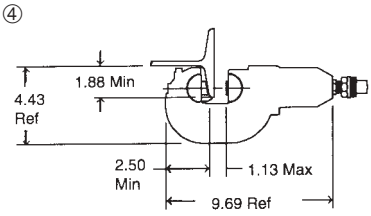
Connector shipped with thread protection studs only. Order TMHG kits separately.

④ 1.84 IN. Minimum flange depth.
3.06 IN. Minimum flange width.



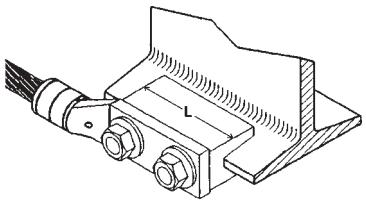
Y46 SERIES
USE PIBEAMKIT

④



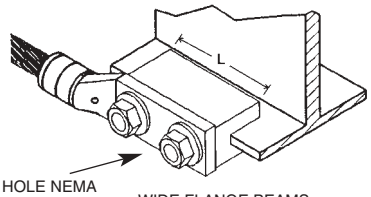
Y750 SERIES
USE UIBEAMKIT

Fig. 1



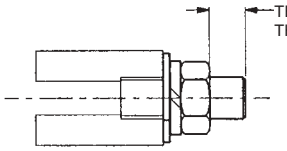
STANDARD BEAMS
(FLANGE ANGLED) USE YGIBS)

Fig. 2



2 HOLE NEMA SPACING

WIDE FLANGE BEAMS
(FLANGE PARALLEL) USE YGIBW



TERMINAL MOUNTING HARDWARE

CATALOG NUMBER	"T"
TMHG-42	.42
TMHG-92	.92

NOTE: Use TMHG-D92 to double stack lugs.

NOTES:

1. Terminal conector to be ordered separately. When I-beam connector is used with type "YGHA" terminal, the connection meets IEEE 837-1989 requirements. YGA-2N, YA-2N and other BURNDY® 2-hole NEMA copper terminals are suitable.
2. Order "TMHG" Terminal Mounting Hardware Kit separately. Kit consists of 2 studs, 2 flat washers, 2 lockwashers and 2 hex nuts.
3. Using the 1/4 hex key wrench, screw the stud into the connector until stud bottoms out in connector. Install a "YGHA" terminal, flat washer, lockwasher and hex nut onto stud. Tighten and torque to 480 pound-inches.

④ Dimensions shown reflect the minimum dimensions required on a beam to properly install the I-beam connector.

5. To correctly determine the appropriate YGIB connector to use based on flange thickness, order either YGIBGAUGE1 or YGIBKIT1 (KIT1 contains wiremike).

TYPE YGIB

(Continued)

GROUNDLINK™ CONNECTOR

COPPER CONDUCTOR RANGE	CATALOG NUMBER	FIG. NO.	"L"	"J"	iBEAM FLANGE THICKNESS	SUGGESTED TERMINALS		"T" REF.
						COPPER CONDUCTOR	TERMINAL	
2 - 4/0 AWG	YGIBS28-338-2N	1	3.00	1/2 - 13	.250" to .338"	#2 STR. AWG	YGHA2C-2N	.26
						1/0 STR. AWG	YGHA25-2N	.19
	YGIBW28-338-2M	2	3.00			2/0 STR. AWG	YGHA26-2N	.26
						4/0 STR. AWG	YGHA28-2N	.30
250 - 500 kcmil	YGIBS34-338-2N	1	6.00			250 kcmil	YGHA29-2N	.34
	YGIBW34-338-2N	2				500 kcmil	YGHA34-2N	.40
2 - 4/0 AWG	YGIBS28-400-2N	1	3.00		.338" to .400"	#2 STR. AWG	YGHA2C-2N	.26
						1/0 STR. AWG	YGHA25-2N	.19
	YGIBW28-400-2N	2	3.00			2/0 STR. AWG	YGHA26-2N	.26
						4/0 STR. AWG	YGHA28-2N	.30
250 - 500 kcmil	YGIBS34-400-2N	1	6.00			250 kcmil	YGHA29-2N	.34
	YGIBW34-400-2N	2				500 kcmil	YGHA34-2N	.40
2 - 4/0 AWG	YGIBS28-462-2N	1	3.00		.400" to .462"	#2 STR. AWG	YGHA2C-2N	.26
						1/0 STR. AWG	YGHA25-2N	.19
	YGIBW28-462-2N	2	3.00			2/0 STR. AWG	YGHA26-2N	.26
						4/0 STR. AWG	YGHA28-2N	.30
250 - 500 kcmil	YGIBS34-462-2N	1	6.00			250 kcmil	YGHA29-2N	.34
	YGIBW34-462-2N	2				500 kcmil	YGHA34-2N	.40
2 - 4/0 AWG	YGIBS28-550-2N	1	3.00		4.62" to .550"	#2 STR. AWG	YGHA2C-2N	.26
						1/0 STR. AWG	YGHA25-2N	.19
	YGIBW28-550-2N	2	3.00			2/0 STR. AWG	YGHA26-2N	.26
						4/0 STR. AWG	YGHA28-2N	.30
250 - 500 kcmil	YGIBS34-550-2N	1	6.00			250 kcmil	YGHA29-2N	.34
	YGIBW34-550-2N	2				500 kcmil	YGHA34-2N	.40
2 - 4/0 AWG	YGIBS28-613-2N	1	3.00		.550" to .613"	#2 STR AWG	YGHA2C-2N	.26
						1/0 STR. AWG	YGHA25-2N	.19
	YGIBW28-613-2N	2	3.00			2/0 STR. AWG	YGHA26-2N	.26
						4/0 STR. AWG	YGHA28-2N	.30
250 - 500 kcmil	YGIBS34-613-2N	1	6.00			250 kcmil	YGHA29-2N	.34
	YGIBW34-613-2N	2				500 kcmil	YGHA34-2N	.40
2 - 4/0 AWG	YGIBS28-675-2N	1	3.00		.613" to .675"	#2 STR. AWG	YGHA2C-2N	.26
						1/0 STR. AWG	YGHA25-2N	.19
	YGIBW28-675-2N	2	3.00			2/0 STR. AWG	YGHA26-2N	.26
						4/0 STR. AWG	YGHA28-2N	.30
250 - 500 kcmil	YGIBS34-675-2N	1	6.00			250 kcmil	YGHA29-2N	.34
	YGIBW34-675-2N	2				500 kcmil	YGHA34-2N	.40

TYPE GSTUD-HY

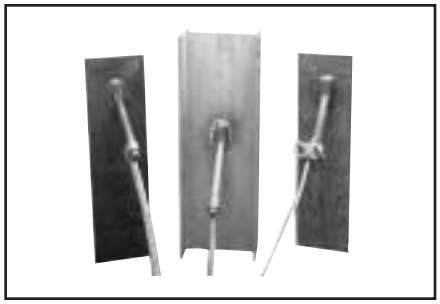
VERSITAIL™

Structural Steel Grounding Connector

INSTALLATION

1. Weld the VERSITAIL™ to the steel member.
2. Select the proper connector for your specific application.
   a. FOR COMPRESSION CONNECTORS
   Select the proper BURNDY® type "YGHP," "YGHC," or 'YGHR" connector. Clean the conductor, join the VERSITAIL™ and the grounding conductor together with the recommended tool and die set, then crimp the connector over the knurled area of the VERSITAIL™.
   b. FOR MECHANICAL CONNECTORS
   Select the properly sized BURNDY® connector. Clean the conductor, then apply PENETROX E® oxide inhibiting compound on the contact area for increased effectiveness and service life. Put the connector over the knurled area of the VERSITAIL™ and apply the recommended torque value for correct installation.

D-20



FEATURES

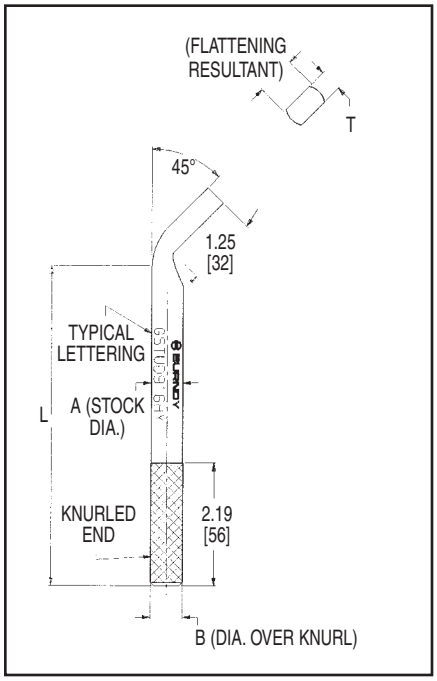
- The VERSITAIL™ may be welded to steel surfaces quickly and easily with normal construction equipment.
- The VERSITAIL™ eliminates costly disk grinding and the need to expose virgin metal. The welding process burns through the oxidation and "scale" to establish excellent electrical grounding continuity.
- The VERSITAIL™ may be installed by the welder in the field or at the steel fabricator based on customer preference.
- The VERSITAIL™'s pure copper coating over low carbon, hot rolled steel is compatible with standard welding processes. No toxic gasses are generated.
- The VERSITAIL™'s knurled surface is copper plated and specifically designed to ensure excellent mechanical gripping and electrical integrity for BURNDY® compression and mechanical connectors in all grounding applications.
- The VERSITAIL™ may be installed during adverse weather conditions thus eliminating costly construction delays.

BENEFITS

Low installation cost.
- No drilling . . . No cleaning . . .
- No special preparation

SPECIFICATIONS

- Low Carbon, hot rolled steel.
- Pure copper plated finish.



CATALOG NUMBER	NOM. ROD SIZE	DIMENSIONS A IN. [MM]	B IN. [MM]	L IN. [MM]	T IN. [MM]	ELECTRICAL EQUIVALENT COPPER CONDUCTOR SIZE (AWG.)*
GSTUD14HY	1/4″	.25 [6.3]	.26 [6.6]	4.81 [122.2]	.19 [4.8]	#6
GSTUD38HY	3/8″	.38 [9.7]	.39 [9.9]	5.81 [147.6]	.25 [6.4]	#3
GSTUD916HY	5/8″	.56 [14.2]	.57 [14.5]	5.68 [144.3]	.38 [9.7]	1/0
GSTUD34HY	3/4″	.75 [19.0]	.76 [19.3]	5.81 [147.6]	.51 [13.0]	4/0

* This is the equivalent rating for continuous service. Larger conductors may be connected using both compression and bolted connectors in potential ground fault applications.

TYPES YGT & YTTAG

STATIC GROUNDING RECEPTACLE

Type YGT static grounding receptacles are designed for static grounding of equipment. The receptacle is connected to the ground grid with HYGROUND™ compression connectors and finished flush with surface to provide a permanent corrosion proof grounding point.

Type YGT Static Grounding Receptacle with Cover

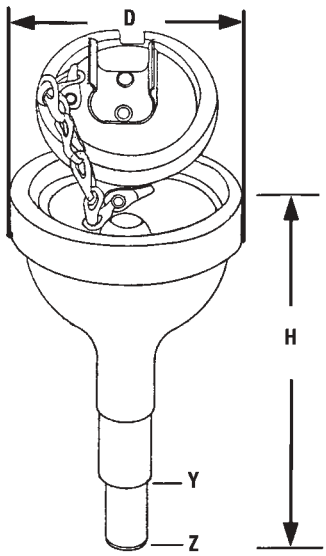


Fig. 1

Type YTTAG Combination Static Grounding Receptacle and Aircraft Tie Down Bar

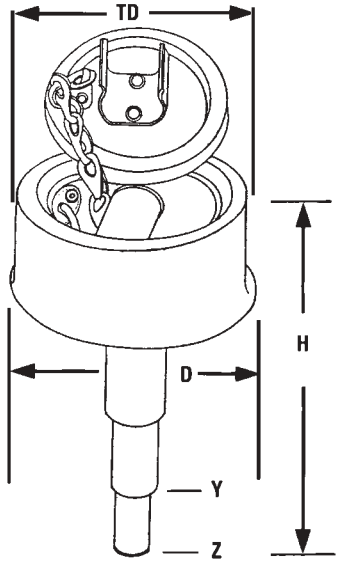


Fig. 2

Catalog Number	Figure Number	* HYGROUND Connector	Dimensions				
			H	D	Y Dia.	Z Dia.	"TD"
YGT275	1	Select suitable YGHR or YGLR for 3/4″ ground rod and sized to ground conductor.	5.5	2.75	.75	.56	—
YTTAG388	2		6.5	4.75	.75	.56	4.3

* When using U or PU dies with Y46 HYPRESS™, a PUADP-1 adapter is required.

NOTES:

1. Ground rod must be pre-crimped with U2CABT die set when PU998 die is used or for even higher mechanical resistance use special UPRECRIMP™ dies on ground rods.
2. Pre-crimping of ground is not necessary when P1011 die is used. Install YGHR or YGLR on hub Y. Hub Z is inserted into 1/2" rigid conduit. The conduit is driven into earth to provide support and provide correct level of receptacle prior to cement pour.

TYPE YG-B

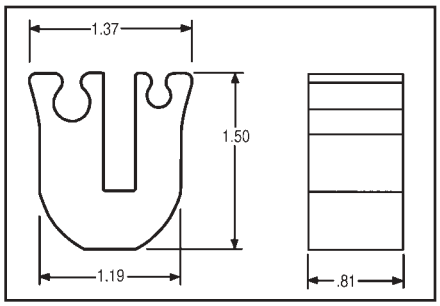
BUS BAR CONNECTOR

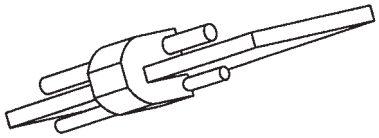
BURNDY's YG14B2TC2C6C Compression Bus Bar Connector is ideally suited for cellular tower applicatons and is easier to use than exothermic connections. This high conductivity wrought copper connector allows attachment of the ground conductor to the ground bus with just one crimp using the BURNDY® Y750 HYPRESS™ Hydraulic Compression tool and the U1105 die set. This exclusive patent pending design allows the user to attach #2 AWG sol./str. and/or #6 sol./str. copper conductor to 1/4" thick copper bus bar. This connection is suitable using (1) or (2) conductors for power, grounding and bonding applictions. UL Listed to both UL486 and UL467 (suitable for direct burial) ensures that this connector will meet the rigors of either application. Prefilled with PENETROX® E compound and strip sealed.


Fig. 1


Fig. 2


Fig. 3





CATALOG NUMBER	FIG NO.	GROUND BAR THICKNESS	BUS BAR TAP CONDUCTORS	TOOLING	INSTALLATION DIE NO.	NO. OF CRIMPS
YG14B2TC2C6C	1	1/4"	#2 SOL/and/or STR COPPER #6 SOL/and/or STR COPPER	Y750	U1105	1
YG14B2TC2C2C*	2	1/4"	#2 #2	Y750	U1105	1
YG14BTC26	3	1/4"	#1 FLEX CABLE through 2/0 FLEX CABLE	Y750	U1105	1
YG14BTC28	3	1/4"	4/0 AWG STR to 1/0 AWG STR COPPER	Y750	U1105	1

NOTE: Suitable for use with either (1) or (2) conductors (excluding YG14BTC26 and YG14BTC28).

* For continuous uncut conductor applications.

MECHANICAL GROUNDING CONNECTORS

More than 60 years of technological innovation has made BURNDY® mechanical grounding connectors one of the most widely used, highly respected lines in the industry. There is virtually no grounding application problem that this diversified line cannot help solve.

All BURNDY® mechanical grounding connectors have been designed for easy installation and for outstanding durability. Only the finest high copper alloys are used in their manufacture, ensuring top performance under the most extreme environmental conditions.

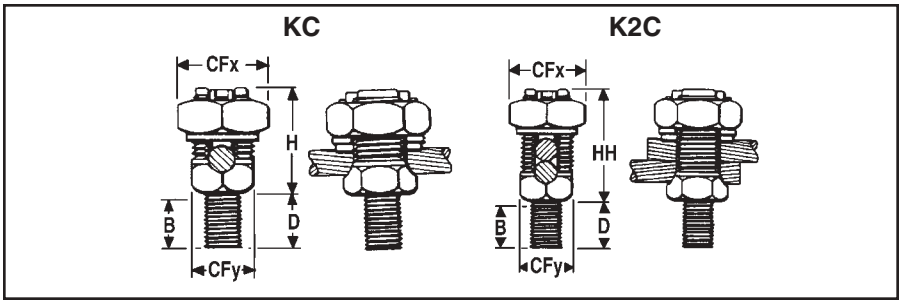
UL467 Listed for direct burial applications in earth or concrete.

TYPES KC, K2C

SERVIT™ POST

For Copper Cable to Flat

SERVIT™ POST used to ground one or two cables to steel structures, fence posts, transformers. Also used to tap one or two cables from bus bar. One-wrench installation.



CATALOG NUMBER		CONDUCTOR		STUD						
TYPE KC	TYPE K2C	STRANDED	SOLID	DIAMETER	B	CFx	CFy	D	H	HH
KC15	K2C15	12 - 9	12 - 8	1/4 - 20	3/8	1/2	3/8	1/2	5/8	7/8
KC15B1	K2C15B1				7/8			1		
KC17	K2C17	10 - 7	10 - 6	1/4 - 20	3/8	5/8	7/16	1/2	7/8	1
KC17B1	K2C17B1				7/8			1		
KC20	K2C20	10 - 5	10 - 4	5/16 - 18	13/32	11/16	1/2	5/8	7/8	1-1/8
KC20B1	K2C20B1				27/32			1		
KC22	K2C22	10 - 3	10 - 2	3/8 - 16	15/32	3/4	5/8	5/8	1	1-1/4
KC22B1	K2C22B1				31/32			1-1/8		
KC23	K2C23	8 - 2	10 - 1	3/8 - 16	15/32	13/16	5/8	5/8	1	1-3/8
KC23B1	K2C23B1				31/32			1-1/8		
KC25	K2C25	2 - 1/0	2 - 2/0	1/2 - 13	9/16	15/16	3/4	3/4	1-1/8	1-5/8
KC25B1	K2C25B1				1-1/16			1-1/4		
KC26	K2C26	2 - 2/0	2 - 3/0	1/2 - 13	17/32	1	7/8	3/4	1-3/8	1-7/8
KC26B1	K2C26B1				1-1/16			1-1/4		
KC28	K2C28	1 - 4/0	1 - 4/0	5/8 - 11	3/4	1-1/2	1-3/16	1	1-3/4	2-1/4
KC28B1	K2C28B1				1-1/4			1-1/2		
KC31	K2C31	1 - 350	—	5/8 - 11	3/4	1-11/16	1-3/8	1	2-1/4	2-7/8
KC31B1	K2C31B1				1-1/4			1-1/2		
KC34	K2C34	3/0 - 500	—	3/4 - 10	1	2	1-5/8	1-1/4	2-3/8	3-1/4
KC34B1	K2C34B1				1-1/2			1-3/4		

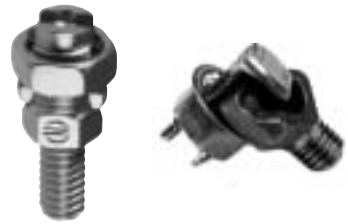
Add "NSP" suffix to have connector supplied w/split lockwasher and nut.

TYPES KC22J12T13, EQC632C

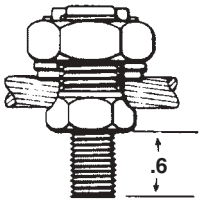
TRANSFORMER GROUND CONNECTORS

For Copper

Fits all standard EEI NEMA distribution transformers as a tank grounding terminal.



Stud Size = ½" - 13 Type EQC632C



Type KC22J12T13

CATALOG NUMBER	RANGES
KC22J12T13	8 Sol. - 2 Sol.
KC26	2 Sol. - 2/0 Str.
KC34J12T13	3/0 - 500 Str.
EQC632C	8 Sol. - 2 Str.

Both, one-wrench installation.

TYPE KS-DB

SERVIT™

For Copper

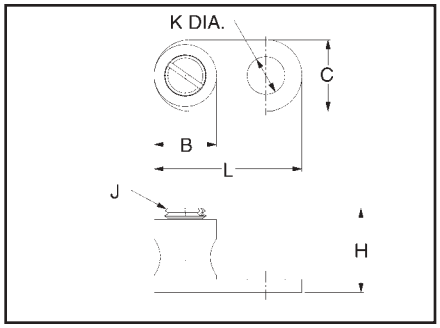
UL467 Listed for direct burial applications in earth or concrete. Compact, high-strength, high copper alloy SERVIT™ split-bolt has free-running threads and easy to grip wrench flats. Highly resistant to cracking and corrosion.

Catalog Number	Cross Flats	L	W	Copper Conductor Range (Sol. - Str.)	Rebar w/ (1) No. 8 Sol. Cu	Recommended Torque In. Lb.
KS15-DB	.50	.85	.38	12 AWG - 8 AWG	N/A	80
KS17-DB	.63	1.14	.45	8 AWG - 6 AWG	N/A	165
KS20-DB	.69	1.20	.51	8 AWG - 4 AWG	N/A	165
KS22-DB	.75	1.50	.60	6 AWG - 3 AWG	N/A	275
KS23-DB	.82	1.54	.62	6 AWG - 2 AWG	N/A	275
KS25-DB	.94	1.77	.73	4 AWG - 1/0	N/A	385
KS26-DB	1.05	1.94	.82	2 AWG - 2/0 6 AWG - 8 AWG Str./Sol.	#3 (3/8″)	385
KS27-DB	1.36	1.86	1.17	1 AWG - 3/0	N/A	500
KS29-DB	1.36	2.07	1.17	1 AWG - 250 kcmil 6 AWG - 8 AWG Str./Sol.	#4 (1/2″)	650
KS31-DB	1.70	2.51	1.41	1/0 AWG - 350 kcmil 6 AWG - 8 AWG Str./Sol.	#5 (5/8″)	650
KS34-DB	1.82	2.79	1.48	2/0 AWG - 500 kcmil 6 AWG - 8 AWG Str./Sol.	#6 (3/4″)	825

TYPE GKA

For Copper

UL467 Listed for direct burial applications in earth or concrete. One-piece forged body construction insures mechanical integrity in an underground environment. Supplied with a stainless steel headless screw.



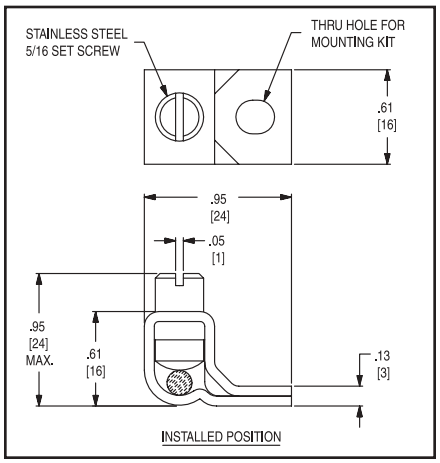
CATALOG NUMBER	CABLE RANGE	B	C	H	J	K	L
GKA8C [1]	#10 SOL. - #8 STR.	.31	.38	.58	#10 - 32	.21	.81
GKA4C [2]	#14 SOL. - #4 STR.	.46	.54	.71	5/16 - 24	.28	1.13

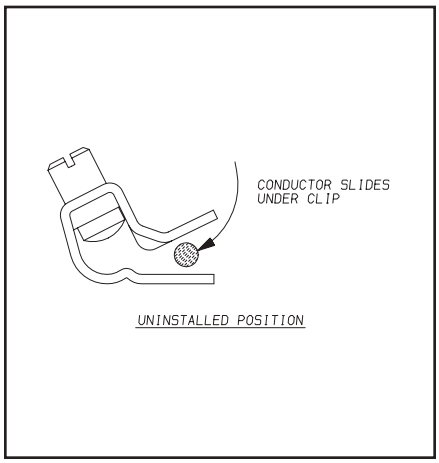
1. To be assembled with TMH322 stainless steel hardware kit. Ordered separately.
2. To be assembled with TMH 323 stainless steel hardware kit. Ordered separately.

TYPE KPB

For Copper

UL467 Listed for direct burial in earth or concrete. UL 486 listed. This exclusive BURNDY® design accommodates #10 - #4 copper where continuous conductor runs are preferable.





CATALOG NUMBER	RANGE	STUD HOLE
KPB4CG1	#10 - #4 CU	#10 [1]

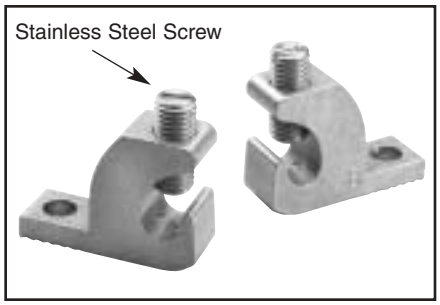
1. To be assembled with TMH322 stainless steel hardware kit. Ordered separately.

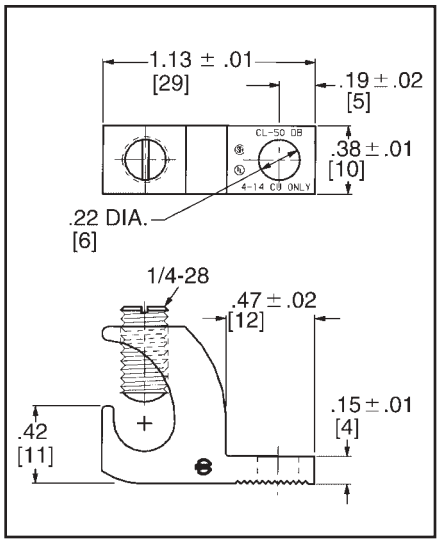
TYPE CL50-1

COPPER LAY-IN QIKLUG™

For Copper

The Lay-In QIKLUG™ is manufactured from high strength pure electrolytic copper to ensure maximum strength and conductivity. UL467 Listed for direct burial in earth or concrete. The open-faced design allows for fast lay-in of the conductor without the need for cutting or breaking.





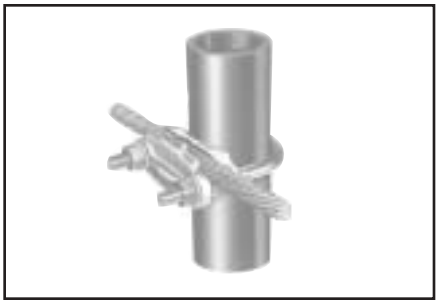
CATALOG NUMBER	WIRE RANGE COPPER	STUD HOLE
CL50-1	#14 - #4 CU	#10

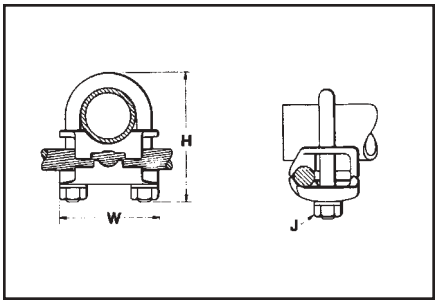
TYPE GAR

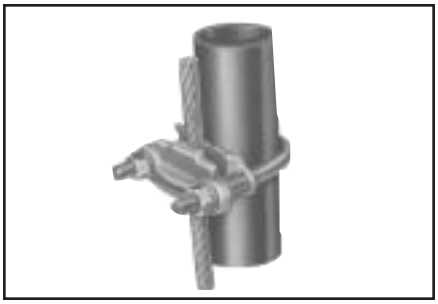
FENCE POST GROUNDING CONNECTOR

For Parallel or 90° Copper Cable Connection

To Rod or Pipe with the Same Connector







High copper alloy ground connector for joining a range of cable, parallel or at right angles to rod or tube. Especially good for fence posts. High copper alloy cast body with DURIUM™ U-bolts, nuts and lockwashers, permit entire connection to be buried in ground or concrete without danger of corrosion.

- One-wrench installation.
- UL467 Listed.
- Acceptable for direct burial.

Catalog Number	Conductor			H	J	W
	Tube I.P.S.	Rod	Cable			
GAR114C	1/4	1/2	8 Sol. - 4 Str.	2-1/2	3/8	1-7/8
GAR1126			4 Sol. - 2/0 Str.			
GAR1129			2/0 Sol. - 250			
GAR644C	3/8	5/8 - 3/4	8 Sol. - 4 Str.	2-7/8		2-1/8
GAR6426			4 Sol. - 2/0 Str.			
GAR6429			2/0 Sol. - 250			
GAR6434			300 - 500	3-1/2	1/2	2-1/2
GAR144C	1/2 - 3/4	7/8 - 1	8 Sol. - 4 Str.	2-3/4	3/8	2-3/8
GAR1426			4 Sol. - 2/0 Str.	3		
GAR1429			2/0 Sol. - 250			
GAR1434			300 - 500	3-3/4	1/2	2-3/4
GAR154C	1	1-1/8 - 1-1/4	8 Sol. - 4 Str.	2-7/8	3/8	2-5/8
GAR1526			4 Sol. - 2/0 Str.			
GAR1529			2/0 Sol. - 250	3-3/8		
GAR1534			300 - 500	4-1/2	1/2	
GAR164C	1-1/4	1-3/8 - 1-1/2	8 Sol. - 4 Str.	3-1/2	3/8	3
GAR1626			4 Sol. - 2/0 Str.			
GAR1629			2/0 Sol. - 250			
GAR1634			300 - 500	4-1/4	1/2	3-3/8
GAR174C	1-1/2	1-5/8 - 1-7/8	8 Sol. - 4 Str.	4	3/8	3-1/4
GAR1726			4 Sol. - 2/0 Str.			
GAR1729			2/0 Sol. - 250			
GAR1734			300 - 500	4-5/8	1/2	2-5/8
GAR184C	2	2 - 2-3/8	8 Sol. - 4 Str.	4-1/4	3/8	3-3/4
GAR1826			4 Sol. - 2/0 Str.			
GAR1829			2/0 Sol. - 250	4-1/2		
GAR1834			300 - 500	5-1/4	1/2	4-1/8
GAR194C	2-1/2	2-1/2 - 7/8	8 Sol. - 4 Str.	5	3/8	4-1/4
GAR1926			4 Sol. - 2/0 Str.			
GAR1929			2/0 Sol. - 250			
GAR1934			300 - 500	5-5/8	1/2	4-5/8

TYPE GAR (Continued)

FENCE POST GROUNDING CONNECTOR

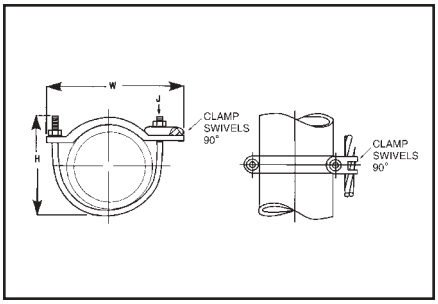
Catalog Number	Conductor			H	J	W
	Tube I.P.S.	Rod	Cable			
GAR204C	3	3 - 3-1/2	8 Sol. - 4 Str.	5-5/8	3/8	4-3/4
GAR2026			4 Sol. - 2/0 Str.			
GAR2029			2/0 Sol. - 250			
GAR2034			300 - 500	6-3/8	1/2	5-1/4
GAR214C	3-1/2	3-1/2 - 4	8 Sol. - 4 Str.	6-1/4	3/8	5-3/8
GAR2126			4 Sol. - 2/0 Str.			
GAR2129			2/0 Sol. - 250			
GAR2134			300 - 500	6-3/4	1/2	5-3/4
GAR224C	4	4 - 4-1/2	8 Sol. - 4 Str.	6-3/8	3/8	5-7/8
GAR2226			4 Sol. - 2/0 Str.			
GAR2229			2/0 Sol. - 250			
GAR2234			300 - 500	6-7/8	1/2	6-1/4
GAR244C	5	—	8 Sol. - 4 Str.	7-3/4	3/8	6-7/8
GAR2426			4 Sol. - 2/0 Str.			
GAR2429			2/0 Sol. - 250		1/2	7-1/4
GAR2434			300 - 500	8-5/8		
GAR8629	6	—	2/0 Sol. - 250	8-13/16	1/2	8-3/8

Contact BURNDY® for additional pipe and wire size combinations not shown.

TYPES GAR-BU AND GAR3902 SERIES

GROUND CONNECTORS

Type GAR-BU is a high-conductivity copper ground connector for connecting a small to medium range copper ground conductor to water pipe as well as structural and reinforcing rod shapes. Universal acceptance of several sizes of cylindrical shapes makes this suitable for industrial construction and maintenance work as well as cathodic protection. Cable clamp swivels to permit parallel grounding of one pipe or 90° degree cable run for grounding several parallel pipes. Single wrench installation. UL467 Listed and CSA certified.



Features and benefits

- Cable clamp swivels at 90°.
  - ◊ Permits parallel grounding of one pipe or a 90° cable run for grounding several parallel pipes.
- One-wrench installation.
  - ◊ Simplified installation.
- DURIUM™ silicon bronze hardware (-BU Series)*.
  - ◊ Long lasting corrosion resistance and acceptable for direct burial in earth or concrete.
- UL467 Listed.
  - ◊ Provides quality assurance to recognized industry NEC standards from an independent party.

CATALOG NUMBER *	CABLE RANGE	IPS SIZE	O.D. RANGE	H	J	W	RECOMMENDED TIGHTENING TORQUE
GAR3902-BU	#4 - 4/0 AWG	1/2″ - 1″	.840 - 1.32	3.50	3/8″ - 16	3.25	240 in. - lbs.
GAR3903-BU		1-1/4″ - 2″	1.66 - 2.38	4.00		4.25	
GAR3904-BU		2-1/2″ - 3-1/2″	2.88 - 4.00	6.50		6.00	
GAR3905-BU		4″ - 5″	4.50 - 5.56	7.50		7.50	
GAR3906-BU		6″	6.62	8.50		8.62	
GAR3907-BU		8″	8.62	10.00		10.62	
GAR3908-BU		10″	10.75	12.00		12.75	
GAR3909-BU		12″	12.75	14.00		14.75	
GAR3902	#4 - 4/0 AWG	1/2″ - 1″	.840 - 1.32	3.50	3/8″ - 16	3.25	240 in. - lbs.
GAR3903		1-1/4″ - 2″	1.66 - 2.38	4.00		4.25	
GAR3904		2-1/2″ - 3-1/2″	2.88 - 4.00	6.50		6.00	
GAR3905		4″ - 5″	4.50 - 5.56	7.50		7.50	
GAR3906		6″	6.62	8.50		8.62	
GAR3907		8″	8.62	10.00		10.62	
GAR3908		10″	10.75	12.00		12.75	
GAR3909		12″	12.75	14.00		14.75	

* Type GAR-BU is supplied with DURIUM™ silicon bronze hardware and is listed for direct burial.

TYPE GAR-RB

For Reinforcement Bar

CATALOG NUMBER	REBAR	IPS SIZE	O.D. RANGE	ROD	COPPER CONDUCTOR	
					MIN.	MAX.
GAR644C-RB	#3 - 6 (.375 - .750)	3/8	.625 - .75	5/8 - 3/4	8 Sol.	5 Str.

UL467 listed for direct burial in earth or concrete.

TYPE GAR-TC

WATER PIPE GROUND CONNECTOR

Type GAR-TC is a high-conductivity copper ground connector that features a pre-drilled pad, allowing a 2-hole compression terminal to be directly connected to water pipe as well as structural and reinforcing rod shapes. Universal acceptance of several sizes of cylindrical shapes makes this suitable for industrial construction and maintenance work as well as telecommunications grounding. Terminal may be mounted parallel, 45° or 90° degrees to the pipe. Acceptable for direct burial.

D-30


PATENTED

Features and Benefits

- Large, smooth connector contact area between pipe and ground clamp
  ◊ Provides large surface contact area to maximize contact area between connector and pipe.
- The GAR-TC mounting pad permits parallel, 45° or 90° angle connections to the pipe.
  ◊ Provides maximum flexibility for field installation.
- Pre-drilled pad for (2) 3/8″ bolts on 1″ centers.
  ◊ Allows direct mounting of (2) hole compression terminals up to 750 kcmil to pipe.
- DURIUM™ silicon bronze hardware.
  ◊ Provide long lasting corrosion resistance acceptable for direct burial in earth or concrete.
- One-wrench installation.
  ◊ Simplified installation.
- UL467 Listed.
  ◊ Provides quality assurance to recognized industry NEC standards from an independent party. Type GAR-TC is acceptable for direct burial

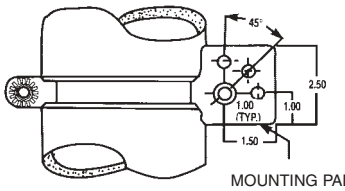


Fig. 1 MOUNTING PAD FOR (2) 3/8" BOLTS - 1" L

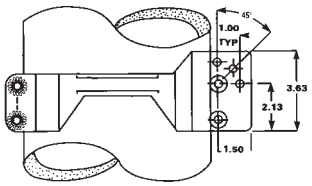
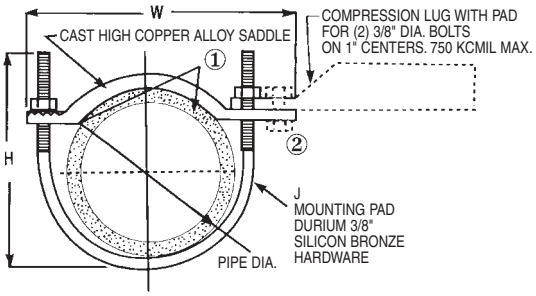


Fig. 2



CATALOG NUMBER	FIG. NO.	ACCOMMODATES I.P.S.	ACCOMMODATES O.D. SIZE	H	J	W	RECOMMENDED TIGHTENING TORQUE
GAR3902TC	1	1/2″ - 1″	.840 - 1.32	3.50	3/8″ - 16	3.75	240 in.-lbs.
GAR3903TC	1	1-1/4″ - 2″	1.66 - 2.38	4.00		4.75	
GAR3904TC	1	2-1/2″ - 3-1/2″	2.88 - 4.00	6.50		6.50	
GAR3905TC	1	4″ - 5″	4.50 - 5.56	7.50		8.00	
GAR3906TC	1	6″	6.62	8.50		9.12	
GAR3907TC	2	8″	8.62	10.00	3/8″ - 16	11.25	240 in.-lbs.
GAR3908TC	2	10″	10.75	12.00		13.25	
GAR3909TC	2	12″	12.75	14.00		15.25	

① Add suffix "-TNET" for electro-tin plated connector and electro-tin plated DURIUM™ silicon bronze hardware. Tin plated catalog number includes mounting hardware for second bolt hole.

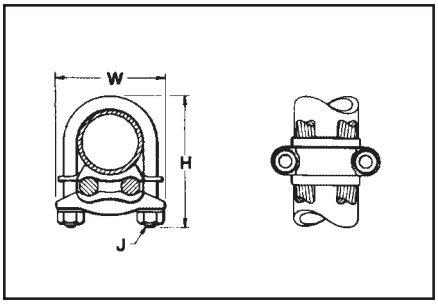
② TMH-289 includes (1) 38 x 125 HEB, (1) 38 CHEN, (1) 38 SW and (2) 38 FW. Order separately.

NOTE: Clean pipe surface beneath saddle until virgin metal is exposed, install GAR-TC ground connector and for maximum conductivity, apply PENETROX®-E oxide inhibiting compound around perimeter of the saddle.

TYPE GD

CABLE TO ROD/TUBE GROUND CONNECTOR

For Two Copper Cables to Rod or Tube



High copper alloy ground connector for joining a range of two parallel cables to rod or pipe. Especially good for grounding fence posts. High copper alloy cast body with DURIUM™ U-bolts, nuts, and lockwashers make the GD suitable for burial in ground or concrete. One-wrench installation. UL467 Listed. Acceptable for direct burial in earth or concrete.

Catalog Number	Conductor			H	J	W
	Tube I.P.S.	Rod	Cable			
GD1526	1	1-1/8 - 1-1/4	4 Sol. - 2/0 Str.	3-3/8	3/8	2-5/8
GD1529			2/0 Sol. - 250			
GD1626	1-1/4	1-3/8 - 1-1/2	4 Sol. - 2/0 Str.	3-1/2		3
GD1629			2/0 Sol. - 250			3-1/4
GD174C	1-1/2	1-5/8 - 1-7/8	8 Sol. - 4 Str.	4		
GD1726			4 Sol. - 2/0 Str.			
GD1729			2/0 Sol. - 250			
GD1734			300 - 500	4-5/8	1/2	3-5/8
GD184C	2	2 - 2-3/8	8 Sol. - 4 Str.	4-3/8	3/8	3-3/4
GD1826			4 Sol. - 2/0 Str.			
GD1829			2/0 Sol. - 250			
GD1834			300 - 500	5-3/8	1/2	4-1/8
GD194C	2-1/2	2-1/2 - 2-7/8	8 Sol. - 4 Str.	5	3/8	4-1/4
GD1926			4 Sol. - 2/0 Str.			
GD1929			2/0 Sol. - 250			
GD1934			300 - 500		1/2	4-5/8
GD204C	3	3 - 3-1/2	8 Sol. - 4 Str.	5-5/8	3/8	4-7/8
GD2026			4 Sol. - 2/0 Str.			
GD2029			2/0 Sol. - 250			
GD2034			300 - 500	6-3/8	1/2	5-1/4
GD214C	3-1/2	3-1/2 - 4	8 Sol. - 4 Str.	6-1/4	3/8	5-3/8
GD2126			4 Sol. - 2/0 Str.			
GD2129			2/0 Sol. - 250			
GD2134			300 - 500	6-7/8	1/2	5-3/4
GD224C	4	4 - 4-1/2	8 Sol. - 4 Str.	6-3/8	3/8	5-7/8
GD2226			4 Sol. - 2/0 Str.			
GD2229			2/0 Sol. - 250			
GD2234			300 - 500	6-7/8	1/2	6-1/4

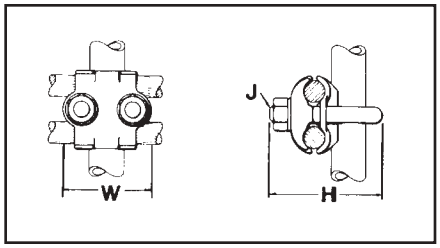
Complies with NFPA 78-86 HEAVY DUTY stacks.
(Order: LD for lead plating for HEAVY DUTY stack applications.)

TYPE GP

GROUND CONNECTOR

For Two Copper Cables to Rod or Pipe

High copper alloy ground connector for joining a range of parallel cables perpendicular to rod, pipe or column. Also used with one groove for run, the other for tap to equipment. High copper alloy cast body and DURIUM™ U-bolts, nuts, and lockwashers make the GP suitable for direct burial in the ground or concrete. One-wrench installation. UL467 Listed. Acceptable for direct burial in earth or concrete.



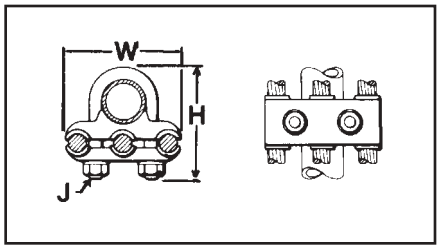
Catalog Number	Conductor			H	J	W
	Tube I.P.S.	Rod	Cable			
GP114C	1/4	1/2	8 Sol. - 4 Str.	2-1/2	3/8	1-7/8
GP1126			4 Sol. - 2/0 Str.			
GP1129			2/0 Sol. - 250			
GP644C	3/8	5/8 - 3/4	8 Sol. - 4 Str.			2-1/8
GP6426			4 Sol. - 2/0 Str.			
GP6429			2/0 Sol. - 250	2-7/8		
GP6434			300 - 500	3-1/2	1/2	2-1/2
GP144C	1/2 - 3/4	7/8 - 1	8 Sol. - 4 Str.	2-3/4	38	2-3/8
GP1426			4 Sol. - 2/0 Str.	3		
GP1429			2 Sol. - 250			
GP1434			300 - 500	3-3/4	1/2	2-3/4
GP164C	1-1/4	1-5/8	8 Sol. - 4 Str.	3-1/2	3/8	3
GP1629			2 Sol. - 250			
GP1726	1-1/2	1-7/8	4 Sol. - 2 Str.	4		3-1/4
GP184C	2	2-3/8	8 Sol. - 4 Str.	4-1/8		3-11/16
GP1826			4 Sol. - 2/0 Str.	4-3/8		
GP2026	3	3-1/2	4 Sol. - 2/0 Str.	5-1/2		4-13/16
GP2226	4	4-1/2	4 Sol. - 2/0 Str.	6-3/8		5-13/16

TYPE GK

GROUND CONNECTOR

For Three Copper Cables to Rod or Pipe

High copper alloy ground connector for joining three equal cables to rod or tube. Cable grooves take a wide range of cable. High copper alloy cast body and DURIUM™ U-bolts, nuts, and lockwashers make the GK suitable for direct burial in soil or concrete. One-wrench installation. UL467 Listed. Acceptable for direct burial in earth or concrete.



Catalog Number	Conductor			H	J	W
	Tube I.P.S.	Rod	Cable			
GK114C	1/4	1/2	8 Sol. - 4 Str.	2-1/2	3/8	2-1/2
GK1126			4 Sol. - 2/0 Str.			2-3/4
GK1129			2/0 Sol. - 250		1/2	3-3/8
GK644C	3/8	5/8 - 3/4	8 Sol. - 4 Str.	2-7/8	3/8	2-5/8
GK6426			4 Sol. - 2/0 Str.			3
GK6429			2/0 Sol. - 250		1/2	3-1/2
GK6434			300 - 500	3-1/2		4
GK1426	1/2 - 3/4	7/8 - 1	4 Sol. - 2/0 Str.	2-3/4	38	3-1/4
GK1429			2 Sol. - 250	3-3/4	1/2	3-7/8
GK1434			300 - 500			4-3/8
GK1526	1	1-1/8 - 1-1/4	4 Sol. - 2/0 Str.	3-3/8	3/8	3-1/2
GK1529			2/0 Sol. - 250	3-3/4	1/2	4-1/8
GK1626	1-1/4	1-3/8 - 1-1/2	4 Sol. - 2/0 Str.	3-1/2	3/8	3-7/8
GK1629			2/0 Sol. - 250	4-1/4	1/2	4-1/2
GK1726	1-1/2	1-5/8 - 1-7/8	4 Sol. - 2/0 Str.	4	3/8	4-1/8
GK1729			2/0 Sol. - 250	4-5/8	1/2	4-3/4
GK1826	2	2 - 2-3/8	4 Sol. - 2/0 Str.	4-1/4	3/8	4-5/8
GK1829			2/0 Sol. - 250	4-3/8	1/2	5-1/8
GK1926	2-1/2	2-1/2 - 2-7/8	4 Sol. - 2/0 Str.	5	3/8	5-1/8
GK1929			2/0 Sol. - 250	5	1/2	5-5/8

CAST BRONZE CLAMPS FOR CONDUIT

Pressure bar type conduit hub adjusts for 1/2″, 3/4″ EMT or 1/2″ rigid conduit. Hub swings 360° for easy alignment. Zinc plated hardware.

CATALOG NUMBER	ACCOMMODATES CONDUCTOR RANGE			REFERENCE DIMENSIONS			RECOMMENDED SCREW TORQUE "INCH POUNDS"	
	WATER PIPE	GROUND	HUB SIZE	H	L	W	PIPE CLAMP	WIRE CLAMP
C-11JPT	1/2 - 1 [13 - 25]	10 - 6 Sol.	1/2 [13]	2.07 [53]	3.19 [81]	2.70 [69]	50 in.-lb.	50 in.-lb.
C-22JPT	1-1/4 - 2 [32 - 51]			2.70 [69]	3.83 [97]			
C-4JPT	2-1/2 - 4 [64 - 102]			4.39 [112]	5.15 [131]			

CAST BRONZE GROUND CLAMPS

For connecting grounding conductor to water pipe or copper tube. "D" indicates UL467 Listed for direct burial in earth and concrete and are supplied with silicon bronze hardware. "B" indicates brass hardware.

CATALOG NUMBER	ACCOMMODATES CONDUCTOR RANGE			REFERENCE DIMENSIONS				RECOMMENDED SCREW TORQUE "INCH POUNDS"	
	WATER PIPE	REBAR	GROUND	H	L	W	C	PIPE CLAMP	WIRE CLAMP
C-11N	1/2 - 1 [13 - 25]	—	10 - 2 Str.	1.81 [46]	2.25 [56]	.63 [16]	.63 [16]	50 in.-lb.	50 in.-lb.
C-11D		#4 - #6							
C-11B									
C-22	1-1/4 - 2 [32 - 51]	—	10 - 2 Str.	2.38 [60]	3.63 [92]	.75 [19]	1.00 [25]		
C-22D									
C-22B									
C-4	2-1/2 - 4 [64 - 114]		10 - 2 Str.	4.13 [105]	6.25 [159]	.96 [24]	1.88 [48]		
C-8	4-1/2 - 6 [114 - 165]		10 - 2 Str.	4.29 [109]	8.34 [212]	1.25 [32]	1.88 [48]		

BUDGET PRICE CAST BRONZE GROUND CLAMP

Similar to above but lighter duty.

CATALOG NUMBER	ACCOMMODATES CONDUCTOR RANGE			REFERENCE DIMENSIONS				RECOMMENDED SCREW TORQUE "INCH POUNDS"	
	WATER PIPE	REBAR	GROUND	H	L	W	C	PIPE CLAMP	WIRE CLAMP
C-5 (JUNIOR)	1/2 - 1 [13 - 25]	—	10 - 2 Str.	1.56 [40]	2.25 [56]	.56 [14]	.50 [13]	50 in.-lb.	50 in.-lb.

DIE CAST CLAMPS

Die cast zinc with zinc plated screws.

CATALOG NUMBER	ACCOMMODATES CONDUCTOR RANGE		REFERENCE DIMENSIONS				RECOMMENDED SCREW TORQUE "INCH POUNDS"	
	WATER PIPE	GROUND	H	L	W	C	PIPE CLAMP	WIRE CLAMP
CZ-11	1/2 - 1 [13 - 25]	10 - 2 Str.	1.56 [40]	2.25 [56]	.56 [14]	.50 [13]	50 in.-lb.	50 in.-lb.

CAST BRONZE CLAMPS

To connect armored cable to water pipe. Zinc plated screws. Pressure bar grips armor or outer cable insulation. 360° swing hub for easy alignment.

CATALOG NUMBER	ACCOMMODATES CONDUCTOR RANGE		REFERENCE DIMENSIONS			RECOMMENDED SCREW TORQUE "INCH POUNDS"	
	WATER PIPE	ARMORED CONDUCTOR	H	L	W	PIPE CLAMP	WIRE CLAMP
C-11JA	1/2 - 1 [13 - 25]	10 - 6 Sol.	1.38 [35]	3.05 [77]	1.41 [36]	50 in.-lb.	50 in.-lb.
C-22JA	1-1/4 - 2 [32 - 51]		2.60 [66]	3.69 [94]			
C-4JA	2-1/2 - 4 [64 - 102]		4.29 [109]	5.01 [128]			

CAST BRONZE CLAMPS

For connecting armored cable to water pipe. Zinc plated screws. "D" indicates UL467 for direct burial in earth and concrete, supplied with silicon bronze hardware.

CATALOG NUMBER	ACCOMMODATES CONDUCTOR RANGE			REFERENCE DIMENSIONS				RECOMMENDED SCREW TORQUE "INCH POUNDS"	
	WATER PIPE	GROUND	GROUND CLAMP	H	L	W	C	PIPE CLAMP	WIRE CLAMP
C-6	1/2 - 1 [13 - 25]	10 - 2 Str.	Bare Armored Unarmored Wire Cables or Cords	1.60 [41]	2.34 [59]	1.06 [27]	.63 [16]	50 in.-lb.	50 in.-lb.
C-6D									
C-7	1-1/4 - 2 [32 - 51]	10 - 2 Str.		2.38 [60]	3.62 [92]	.94 [24]	1.00 [25]		

CAST BRONZE CLAMP FOR RIGID CONDUIT

For grounding rigid conduit systems. Zinc plated screws.

CATALOG NUMBER	ACCOMMODATES CONDUCTOR RANGE			REFERENCE DIMENSIONS				RECOMMENDED SCREW TORQUE "INCH POUNDS"	
	WATER PIPE	GROUND	HUB SIZE	H	L	W	C	PIPE CLAMP	WIRE CLAMP
C-61	1/2 - 1 [13 - 25]	10 - 2 Str.	1/2 [13]	2.07 [53]	2.34 [59]	1.34 [34]	1.06 [27]	50 in.-lb.	50 in.-lb.
C-66	1-1/4 - 2 [32 - 51]			2.69 [68]	3.62 [92]	1.34 [34]	1.40 [36]		

CAST BRONZE CLAMPS FOR CONDUIT

For grounding rigid conduit systems. Continuity from rigid conduit systems to ground provided by cast bronze threaded conduit hub. Zinc plated screws.

CATALOG NUMBER	ACCOMMODATES CONDUCTOR RANGE			REFERENCE DIMENSIONS				RECOMMENDED SCREW TORQUE "INCH POUNDS"	
	WATER PIPE	GROUND	HUB SIZE	H	L	W	C	PIPE CLAMP	WIRE CLAMP
C-11LH-1	1/2 - 1 [13 - 25]	10 Str. - 6 Sol.	1/2 [13]	2.25 [57]	3.23 [83]	.69 [18]	.97 [25]	50 in.-lb.	50 in.-lb.
C-22LH-1	1-1/4 - 2 [32 - 51]			2.88 [73]	3.50 [89]		1.34 [34]		
C-4LH-1	2-1/2 - 4 [54 - 102]			4.56 [116]	4.82 [122]		2.44 [62]		
C-11LH-2	1/2 - 1 [13 - 25]	2/0 - 10 Str.	3/4 [19]	2.56 [65]	2.86 [73]	1.00 [25]	1.13 [29]		
C-22LH-2	1-1/4 - 2 [32 - 51]			3.19 [65]	3.50 [89]		1.50 [38]		
C-4LH-2	2-1/2 - 4 [64 - 102]			4.88 [124]	4.82 [122]		2.38 [60]		
C-11LH-3	1/2 - 1 [13 - 25]	3/0 - 10 Str.	1 [25]	2.69 [68]	2.86 [73]	1.13 [29]	1.19 [30]		
C-22LH-3	1-1/4 - 2 [32 - 51]			3.32 [59]	3.50 [89]		1.56 [40]		
C-4LH-3	2-1/2 - 4 [63 - 102]			5.01 [127]	4.82 [122]		2.44 [62]		

CAST BRONZE CLAMP WITH COPPER STRAP

For grounding rigid conduit systems. Strap helps protect conduit system from water system vibrations. Zinc plated screws. Strap ETP copper.

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CATALOG NUMBER	ACCOMMODATES CONDUCTOR RANGE			REFERENCE DIMENSIONS					RECOMMENDED SCREW TORQUE "INCH POUNDS"	
	WATER PIPE	GROUND	HUB SIZE	H	L	W	C	D	PIPE CLAMP	WIRE CLAMP
C-11CSH-1	1/2 - 1 [13 - 25]	6 Sol. Max.	1/2 [13]	1.75 [44]	8.50 [216]	1.06 [27]	1.06 [27]	6.12 [155]	50 in.-lb.	50 in.-lb.
C-11CSH-2		4/0 Str. Max.	3/4 [19]			1.25 [32]	1.50 [38]			
C-11CSH-3			1 [25]			1.50 [38]	1.75 [44]			

GROUND STRAPS, ADJUSTABLE

Burndy adjustable ground straps are made from pure annealed copper. The heavy type is .050″ thick and 3/4″ wide. The light type is .025″ thick and 3/4″ wide. The bolts, nuts and washers are plated steel. Four sizes cover a ground pipe range of 3/8″ to 4″. Ground wire connection can be soldered or solderless.

CATALOG NUMBER	ACCOMMODATES WATER PIPE	REFERENCE DIMENSIONS			RECOMMENDED SCREW TORQUE "INCH POUNDS"
		H	L	W	
GS1T50	3/8 - 1 [10 - 25]	.050 [1]	5.61 [142]	.75 [19]	50 in.-lb.
GS1T25		.025 [1]			
GS2T50	3/8 - 2 [10 - 51]	.050 [1]	9.38 [238]		
GS2T25		.025 [1]			
GS3T50	3/8 - 3 [10 - 76]	.050 [1]	13.20 [335]		
GS3T25		.025 [1]			
GS4T50	3/8 - 4 [10 - 102]	.050 [1]	17.00 [432]		
GS4T25		.025 [1]			

TYPE GC-A

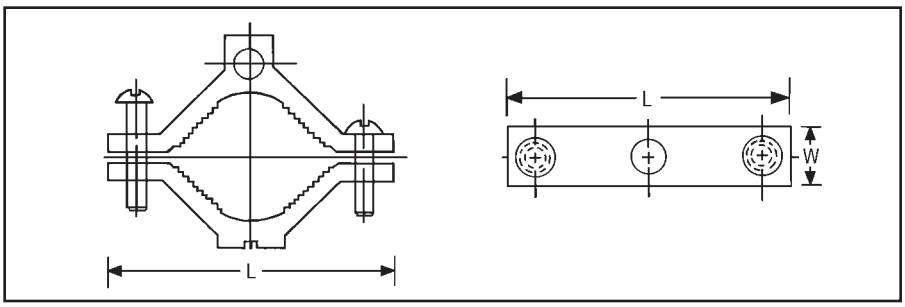
DUAL RATED GROUND CLAMP

For Copper and Aluminum Cable

GC-A ground clamps are UL Listed for use with either copper or aluminum conductors to copper water pipe, galvanized pipe or steel conduit. All clamps are constructed from tin plated high-strength extruded aluminum alloy. PENETROX® oxide inhibiting joint compounds are recommended for all aluminum applications.

Features and Benefits

- Clamps are dual rated for both copper and aluminum conductors.
  - ◊ Maximum flexibility of application.
- All connectors are tin plated.
  - ◊ Provide low contact resistance and prevents galvanic corrosion.
- All clamps are range taking.
  - ◊ Only 3 catalog numbers covers complete range of applications from 1/2 - 4 inches.



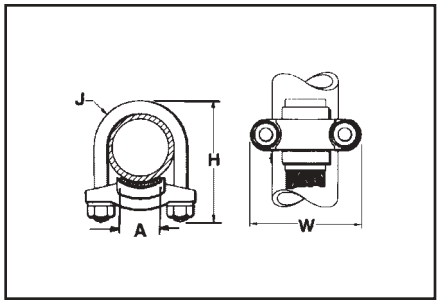
Catalog Number	Conduit, Pipe, or Water Tube Size	Wire Range	Screw Type	W	L	Hex Size
GC15A	1/2 - 3/4 - 1	1/0 - 14	Slotted	11/16	2-1/4	S
GC18A	1-1/4 - 1-1/2 - 2	250 MCM - 6	Hex Socket	13/16	3-3/4	5/16
GC22A	2-1/2 - 3 - 3-1/2 - 4	250 MCM - 6	Hex Socket	1	6-5/16	5/16

TYPE GG

GROUND CONNECTOR

For Copper Bar, Strap, Braid or Cable to Rod or Tube

High copper alloy ground connector for joining bar, strap, braid or cable to rod or tube. High copper alloy cast body, DURIUM™ U-bolts, nuts and lockwashers make the GG particularly effective for use with braid for ground rods, switch handles, fence posts and gates. One-wrench installation.



Catalog Number	Conductor		A	H	J	W
	Tube I.P.S.	Rod				
GG15-1	1	1-1/8 - 1-1/4	1	3-3/8	3/8	2-5/8
GG16-1	1-1/4	1-3/8 - 1-1/2		3-1/2		3
GG17-1	1-1/2	1-5/8 - 1-7/8				3-1/4
GG17-15			1-1/2			
GG18-1	2	2 - 2-3/8	1	4-1/4		3-3/4
GG18-15			1-1/2			
GG18-2			2	4-3/8	1/2	4-1/8
GG19-2	2-1/2	2-1/2 - 2-7/8		5		4-5/8
GG19-25			2-1/2			
GG20-2	3	3 - 3-1/2	2	6-3/8		5-1/4
GG20-25			2-1/2			
GG20-3			3			
GG21-2	3-1/2	3-1/2 - 4	2	5-7/8		5-3/4
GG21-25			2-1/2			
GG21-3			3			
GG21-35			3-1/2			
GG22-2	4	4 - 4-1/2	2	6-1/2		6-1/4
GG22-25			2-1/2			
GG22-3			3			
GG22-35			3-1/2			
GG22-4			4			
GG24-2	5	—	2	7-5/8		7-1/4

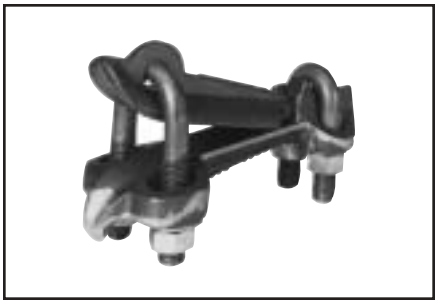
See note page D-1

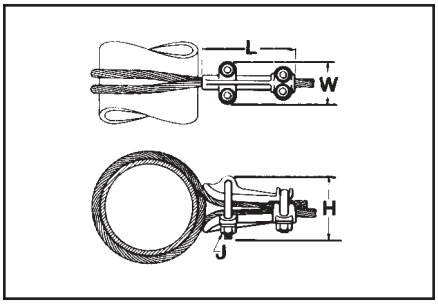
TYPE GQ

GROUND CONNECTOR

For Copper Cable to Tube

High copper alloy ground connector for cross connecting a wide range of cable. High copper alloy, cast body, DURIUM™ U-bolts, nuts, and lockwashers make the GQ suitable for burial in soil or concrete. One-wrench installation. UL467 Listed. Acceptable for direct burial in earth or concrete.





Catalog Number	Conductor		H	J	L	W
	Tube I.P.S.	Cable				
GQ2626	6″ Max.	4 Str. - 2/0 Str.	4-1/2	1/2	5	2-1/2
GQ26-1	Above 6″		7-1/8			
GQ2929	6″ Max.	2/0 Str. - 250	4-1/8		6	2-3/4
GQ29-1	Above 6″		7-1/2			

TYPE GX

GROUND CONNECTOR

For Copper Cables

High copper alloy ground connector for cross connecting a wide range of cable. The high copper alloy cast body, DURIUM™ U-bolts, nuts, and lockwashers make the GX suitable for burial in soil or concrete. One-wrench installation. UL467 Listed. Acceptable for direct burial in earth or concrete.

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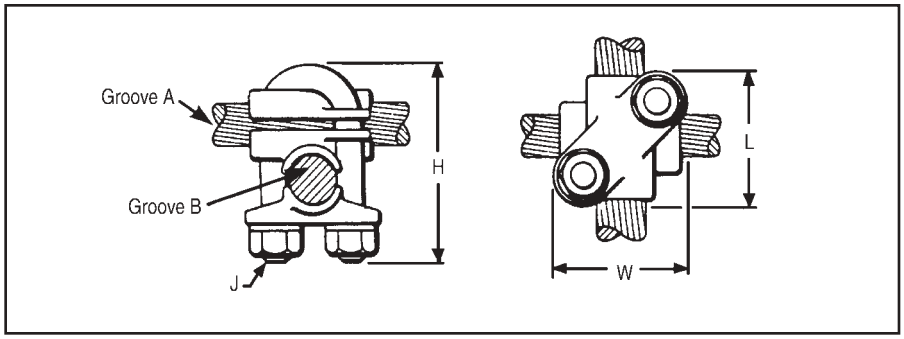


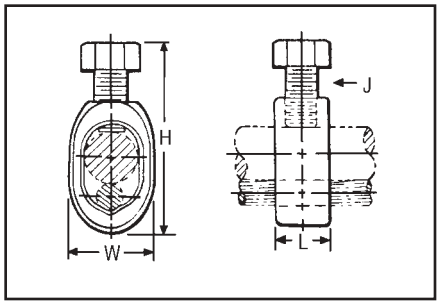
Catalog Number	Conductor		H	J	L	W
	Groove A	Groove B				
GX4C4C	8 Sol. - 4 Str.	8 Sol. - 4 Str.	1-7/8	3/8	1-5/8	1-5/8
GX264C	4 Sol. - 2/0 Str.	8 Sol. - 4 Str.	2-1/2		1-3/4	1-3/4
GX2626		4 Sol. - 2/0 Str.				
GX294C	2/0 Sol. - 250	8 Sol. - 4 Str.	2-3/4		1-7/8	1-7/8
GX2926		4 Sol. - 2/0 Str.				
GX2929		2/0 Sol. - 250				
GX344C	300 - 500	8 Sol. - 4 Str.			2-1/8	
GX3426		4 Sol. - 2/0 Str.				
GX3429		2/0 Sol. - 250				
GX3434		300 - 500	4-1/4	1/2	2-5/8	2-5/8

TYPE GRC

HIGH STRENGTH GROUND ROD CLAMP

For Copper Cable to Rod

High copper alloy ground connector for joining a range of cable to copper clad, galvanized steel, and stainless steel ground rods. Slips over end of rod, one-wrench installation. UL467 Listed for direct burial in earth and concrete.



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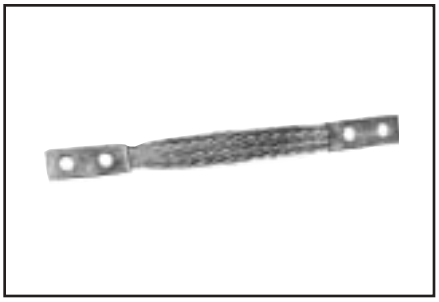
Catalog Number	Drive Rod	Conductor Range		H	W	L	J
		Min.	Max.				
GRC12	1/2	10 Sol.	2 Str.	2.00	.89	.63	3/8
GRC58	5/8		1 Str.	2.19	.95	.63	
GRC34	3/4	8 Sol.	1/0 Str.	2.47	1.09	.65	

TYPE B

FLEXIBLE COPPER BRAID

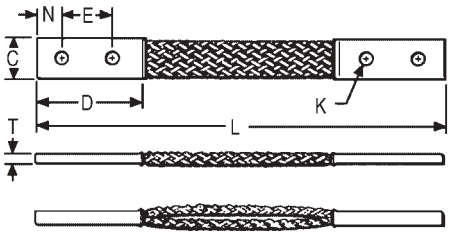


Flexible copper braid jumpers designed to take up linear expansion and contraction, compensate for misalignment and absorb vibratory movement of electrical equipment and devices.

Made of flat extra flexible, tinned, pure copper braid, with unplated, seamless, pure copper ferrules formed into a rectangular shape on each end.

Last two numbers in catalog number indicate total length of braid in inches (e.g., BD12N or BD12 is 12″ long braid jumper).

Other lengths, plating and drilling are available. Refer to factory or Section G (Substation).



CATALOG NUMBER	NUMBER OF BRAIDS IN FERRULES	C	D	E	K	L	N	T	APPROXIMATE AMP INDOOR	APPROXIMATE AMP OUTDOOR
BD12	1	.94	2.50	1.25	.44	12	.62	.13	190	225
BD12N**			3.00	1.75	.56	12				
BD18			2.50	1.25	.44	18				
BD18N**			3.00	1.75	.56	18				
BD24			2.50	1.25	.44	24				
BD24N**			3.00	1.75	.56	24				
BE12	1	1.50	3.00	1.50	.44	12	.75	.17	340	405
BE12N**				1.75	.56	12	.62			
BE18				1.50	.44	18	.75			
BE18N**				1.75	.56	18	.62			
BE24				1.50	.44	24	.75			
BE24N**				1.75	.56	24	.62			
BF12	1	1.19	3.00	1.50	.44	12	.75	.25	360	430
BF12N**				1.75	.56	12	.62			
BF18				1.50	.44	18	.75			
BF18N**				1.75	.56	18	.62			
BF24				1.50	.44	24	.75			
BF24N**				1.75	.56	24	.62			
BG12	1	1.50	3.00	1.50	.44	12	.75	.25	415	495
BG12N**				1.75	.56	12	.62			
BG18				1.50	.44	18	.75			
BG18N**				1.75	.56	18	.62			
BG24				1.50	.44	24	.75			
BG24N**				1.75	.56	24	.62			

* This rating may vary with ambient conditions, orientation of the braid and other service conditions.
** Tongue drilled per (2) hole NEMA standard.

FLEXIBLE COPPER BRAID

(Continued)

TYPE B

CATALOG NUMBER	NUMBER OF BRAIDS IN FERRULES	C	D	E	K	L	N	T	APPROXIMATE AMP	
									INDOOR	OUTDOOR
B2D12	2	.94	2.50	1.25	.44	12	.62	.25	380	455
B2D12N**			3.00	1.75	.56	12	.62			
B2E12		1.62	3.00	1.50	.44	12	.75	.25	530	635
B2E12N**			3.00	1.75	.56	12	.62			
B2F12		1.38	3.00	1.50	.44	12	.75	.38	600	720
B2F12N**			3.00	1.75	.56	12	.62			
B2G12		1.50	3.00	1.50	.44	12	.75	.50	700	840
B2G12N**			3.00	1.75	.56	12	.62			
B3D12	3	1.19	2.50	1.25	.44	12	.62	.25	470	560
B3D12N**			3.00	1.75	.56	12	.62			
B3E12		1.64	3.00	1.50	.44	12	.75	.31	700	840
B3E12N**			3.00	1.75	.56	12	.62			
B3F12		1.44	3.00	1.50	.44	12	.75	.56	820	980
B3F12N**			3.00	1.75	.56	12	.62			
B3G12		1.69	3.00	1.50	.44	12	.75	.69	960	1150
B3G12N**			3.00	1.75	.56	12	.62			
B4D12	4	1.19	2.50	1.25	.44	12	.62	.32	600	720
B4D12N**			3.00	1.75	.56	12	.62			
B4E12		1.64	3.00	1.50	.44	12	.75	.36	850	1020
B4E12N**			3.00	1.75	.56	12	.62			
B4F12		1.50	3.00	1.50	.44	12	.75	.78	1000	1200
B4F12N**			3.00	1.75	.56	12	.62			
B4G12		1.69	3.00	1.50	.44	12	.75	.94	1200	1440
B4G12N**			3.00	1.75	.56	12	.62			

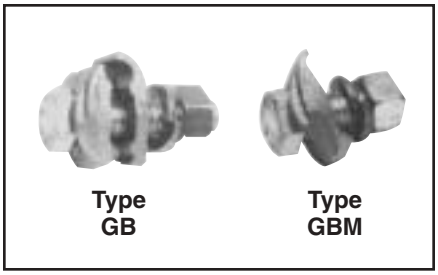
* This rating may vary with ambient conditions, orientation of the braid and other service conditions.
** Tongue drilled per (2) hole NEMA standard.

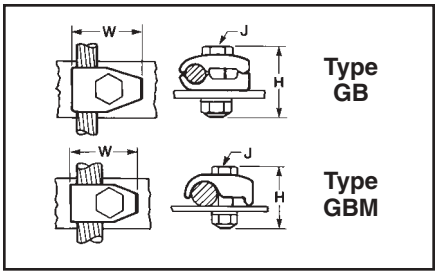
TYPES GB, GBM

GROUND CONNECTOR

For Copper Cable to Bar

High copper alloy ground connector for joining a range of cable to 1/4″ thick bar.* Type GB separates cable from bar, GBM clamps cable directly on bar surface. One-wrench installation. UL467 Listed. The high copper alloy cast body and DURIUM™ bolts, nuts, and lockwashers make the GB and GBM suitable for direct burial in concrete or ground.





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Catalog Number		Conductor	H Type GB/GBL	H Type GBM	J	W Type GB/GBL	W Type GBM
Type GB	Type GBM						
GB4C	GBM4C	8 Sol. - 4 Str.	1-1/2	1-1/2	3/8	1-1/4	1-1/4
GB26	GBM26	4 Sol. - 2/0 Str.	2			1-1/2	1-1/2
+GBL30		4 Sol. - 300			1/2	7/8	0
GB29	GBM29	2/0 Sol. - 250		2		2	2
GB34	GBM34	300 - 500	3	2-1/4		2-3/8	2-3/8

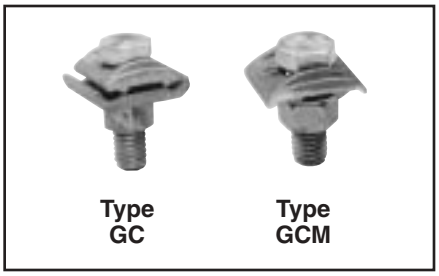
+ GBL30 is not UL listed.
Add "GS" suffix for galvanized steel hardware.
* For other bar thicknesses see note at bottom of page D-44.

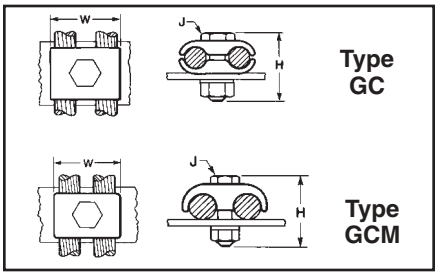
TYPES GC, GCM

GROUND CONNECTOR

For Two Copper Cables to Bar

High copper alloy ground connector for joining a wide range of two parallel cables to 1/4″ thick bar.* Type GC separates cable from bar, GCM clamps cable to bar surface. One-wrench installation. UL467 Listed. The high copper alloy cast body and DURIUM™ bolts, nuts, and lockwashers make the GC and GCM suitable for direct burial in concrete or ground.





Catalog Number		Conductor	H Type GC/GCL	H Type GCM	J	W Type GC/GCL	W Type GCM
Type GC	Type GCM						
GC4C4C	GCM4C	8 Sol. - 4 Str.	1-1/2	1-1/2	3/8	1-3/8	1
GC2626	GCM26	4 Sol. - 2/0 Str.	2			1-3/4	1-3/8
GCL30	GCM30	4 Str. - 300	2	—	—	1	—
GC2929	GCM29	2/0 Sol. - 250	2-1/4	2	—	2-1/4	2
GC3434	GCM34	300 - 500	2-7/8	2-1/4	1/2	2-7/8	2-5/8

Smooth oval-shank bolts are available upon request for cable-tray applications (example: GC30G3). Also refer to type GC-CT.
Add "GS" suffix for galavanized steel hardware.
* For other bar thicknesses see note at bottom of page D-44.

TYPE GL

GROUND CONNECTOR

For Two Copper
Cables to Bar

High copper alloy ground connector for joining a wide range of two parallel cables to 1/4″ thick bar.* Two-bolt design, separates cable from bar. One-wrench installation. UL467 Listed. The high copper alloy cast body and DURIUM™ bolts, nuts, and lockwashers make them suitable for direct burial in concrete or ground.

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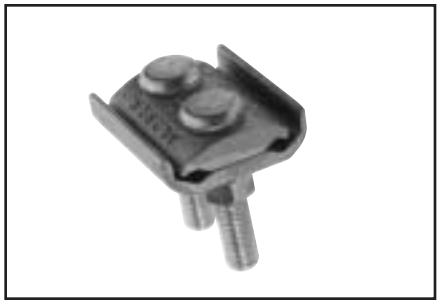
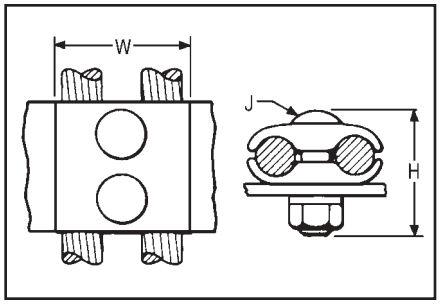




Catalog Number*	Conductor	H	J	W
GL4C4C	8 Sol. - 4 Str.	1-1/2	3/8	1-3/8
GL2626	4 Sol. - 2/0 Str.	2		1-3/4
GL2929	2/0 Sol. - 250	2-1/4	1/2	2-1/4
GL3434	300 - 500	2-7/8		2-7/8

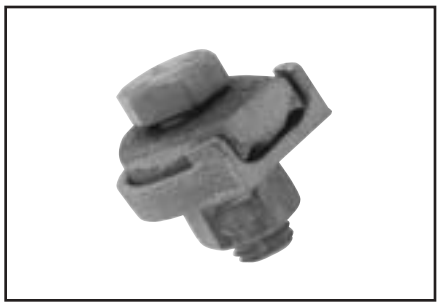
* For other bar thicknesses see note at bottom of page.

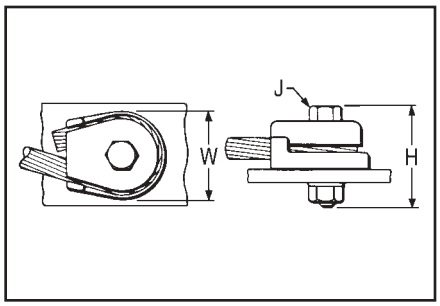
TYPE GZ

GROUND CONNECTOR

For Copper Cable to Bar

High copper alloy ground connector for joining a wide range of cable to 1/4″ thick bar*. Cable is gripped by curving it around the clamping bolt in connector groove. UL467 Listed. The high copper alloy cast body and DURIUM™ bolts, nuts, and lockwashers make them suitable for direct burial in concrete or ground.





Catalog Number*	Conductor	H	J	W
GZ4C-38	8 Str. - 4 Str.	1-1/2	3/8	1-1/8
GZ4C-12		1-7/8	1/2	1-3/4
GZ4C-58		2	5/8	
GZ26-38	3 Str. - 2/0 Str.		3/8	1-5/8
GZ26-12		2-1/8	1/2	1-3/4
GZ26-58		2-1/4	5/8	
GZ29-38	3/0 Str. - 250		3/8	2-1/4
GZ29-12		2-3/8	1/2	
GZ29-58		2-1/2	5/8	

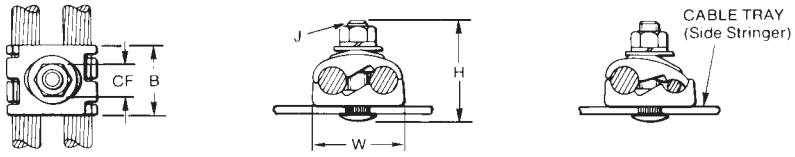
NOTE:

* The GB, GBM, GC, GCM, GL and GZ are all used for joining a range of cable to bar. The catalog numbers in each table accommodate the indicated cable range and up to 1/4″ thick bar. Optional bolt lengths are available to accommodate up to 1″ thick bar. For bar thicknesses from 1/4″ to 1/2″, add the suffix “T4” to the catalog number in the table. For bar thicknesses from 1/2″ to 1″, add the suffix “T8” to the catalog number in the table.

TYPE GC-CT

CABLETRAY GROUND CLAMP

This unique connector incorporates features which are unmatched. Made of tin-plated cast copper alloy, it accommodates either one or two conductors, copper or aluminum cable. In addition to a low profile head with a deep Phillips recess, the galvanized steel bolt has a ribbed neck which prevents rotation during installation when installed in a .44 diameter hole. When used on aluminum conductor, the cable must be scratch brushed and PENETROX® A joint compound must be used on cable and connector.



CATALOG NUMBER	ACCOMMODATES COPPER OR ALUMINUM CONDUCTOR IN EITHER GROOVE	B	CF	H	J	W
GC2525CT	#6 Sol. (.162 Dia.) - 1/0 Str. (.372 Dia.)	1.12	.56	1.95	3/8" - 16	1.45
GC2626CT	#2 Sol. (.258 Dia.) - 2/0 Str. (.419 Dia.)	1.12	.56	1.95	3/8" - 16	1.70
GC2929CT	2/0 Str. (.414 Dia.) - 250 kcmil (.575 Dia.)	1.12	.56	2.20	3/8" - 16	1.98

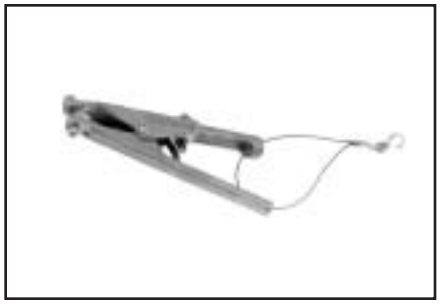
NOTE:
The bolt head is mounted on the inside wall of cabletray to avoid damage to the cable insulation.
May be used with aluminum or galvanized steel cable tray.

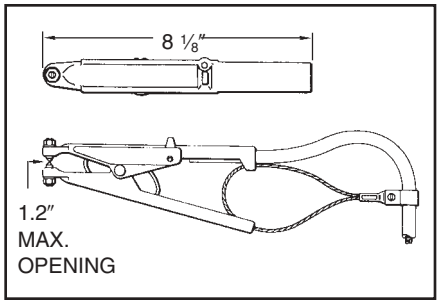
TYPE GIE-G

GROUND CONNECTOR

For Vehicle Grounding
Heavy Duty Construction

High-strength copper alloy ground clamps for grounding gasoline trucks, tank cars, aircraft and other vehicles where danger of explosion due to static electricity exists. Corrosion resistant and supplied with nonsparking, adjustable, replaceable contact grip screws. Automatic safety release disconnects should a vehicle unexpectedly move from the grounded area. Accommodates 4 Str. flexible copper cable.





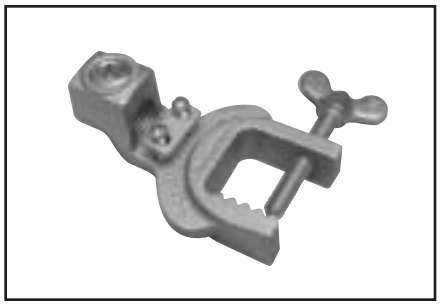
Catalog Number	Replaceable Contact Grip Screws		
	Catalog Number	Material	Point Configuration
GIE4CG3	GIE4CG3P5	Beryllium Copper	Cone Point
	GIE4CG3P7		Cup Point
GIE4CG4	GIE4CG4P5	Stainless Steel	Cone Point
	GIE4CG4P7		Cup Point

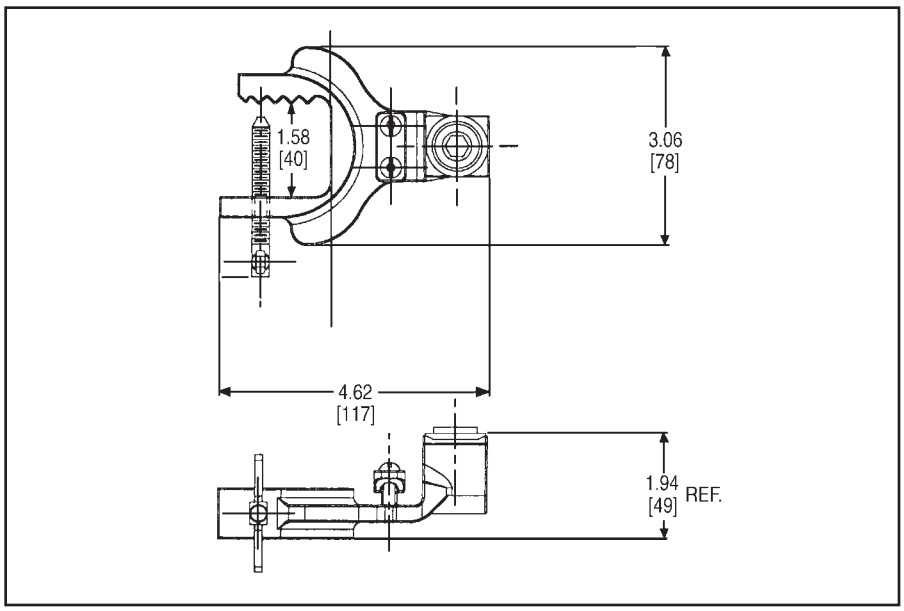
TYPE GIE-G

GROUND CONNECTOR

Accommodates flexible rubber sheath cable ranging from #6 to #2 conductor.

Catalog Number: **GIE2CG3**





RAIL CONNECTOR

Mechanical clamp connectors designed for use in power, contact or running rail applications. Connectors are cast of a high conductivity copper alloy, tin-plated, and assembled with high-strength DURIUM™ hardware. Connectors designed for extended service life.

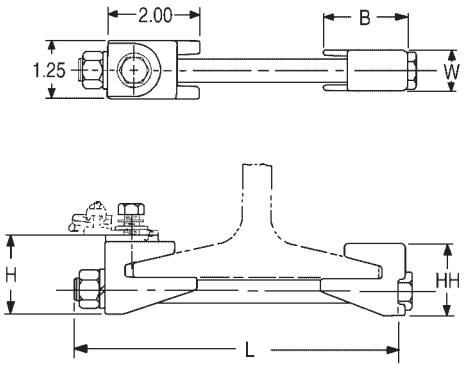


Fig. 1

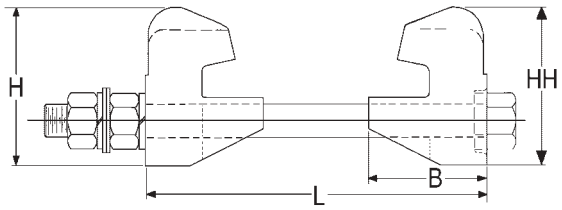


Fig. 2

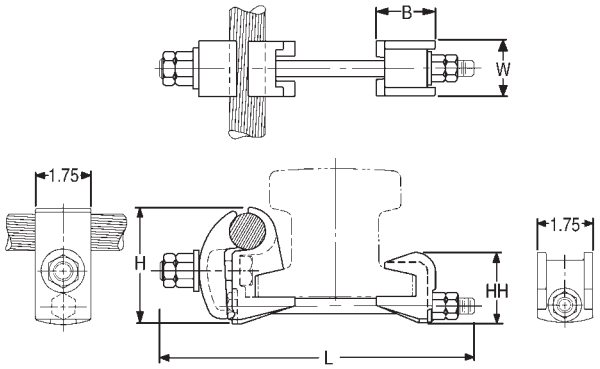


Fig. 3

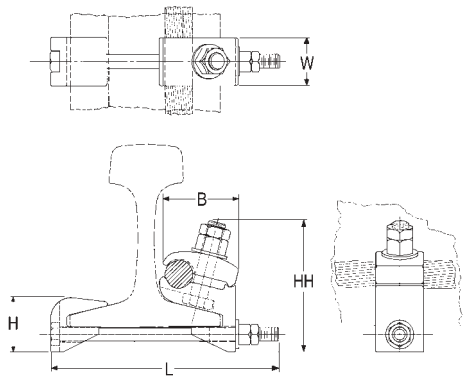


Fig. 4

Catalog Number	Fig. No.	Accomodates	B	H	HH	L	W
J278	1	100 LBS. A.R.E.A. RUNNING RAIL	1.81	1.88	1.72	7.50	.88
J279	1	75 or 90 LBS. RUNNING RAIL	1.81	1.71	1.55	7.50	.88
J280	1	150 LBS. CONTACT RAIL	2.12	2.08	1.92	7.00	1.25
J295	2	150 LBS. THIRD RAIL	2.62	3.50	3.50	7.75	3.00
RGC44G1*	3	150 LBS. NMC CONTACT RAIL and (1) 800-1000 kcmil CU CABLE	1.75	2.82	2.25	10.00	1.75
RGC39G1*	4	115 LBS. CONTACT or RUNNING RAIL and (1) 500-750 kcmil CU CABLE	2.75	2.00	4.78	8.32	1.25

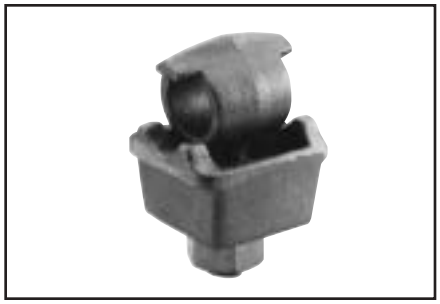
* Tin-plated.

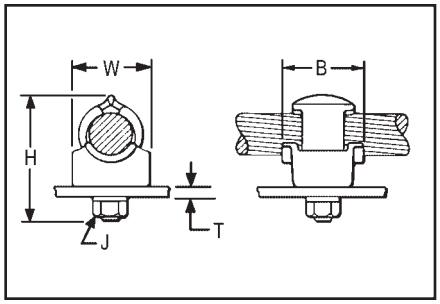
TYPE QGFL

BARTAP

For Copper Cable to
Flat Bar or Pad

High copper alloy BARTAP for joining a range of cable to bar or pad. One-wrench installation. DURIUM™ nut and lockwasher.





Catalog Number	Conductor	B	H	J	T (Max.)	W
QGFL1CB1	10 Sol. - 1 Str.	1-1/8	1-7/8	3/8	1/4	1
QGFL1CB1T6			2-3/8		3/4	
QGFL26B1	8 Sol. - 2/0 Str.	1-1/4	2-1/8		1/4	1-1/8
QGFL26B1T6			2-5/8		3/4	
QGFL26B2*			1-1/2	1/2	1/4	
QGFL26B2T6*		1-1/2	2-7/8		3/4	
QGFL29B1*	6 Str. - 250	1-5/8	2-5/8		1/4	1-3/8
QGFL29B1T6*			3-1/8		3/4	
QGFL31B1*	2 Sol. - 350	1-3/4	2-7/8		1/4	1-5/8
QGFL31B1T6*			3-1/4		3/4	
QGFL34B1	1/0 Sol. - 500	2	3-1/8		1/4	1-3/4
QGFL34B1T6			3-5/8		3/4	
QGFL39B1	350 - 750	2-1/4	3-1/4		1/4	1-3/4
QGFL39B1T6			3-5/8		3/4	
QGFL44B1	750 - 1000		3-3/8		1/4	2-1/8
QGFL44B1T6			4-1/8		3/4	
QGFL46B1	1000 - 1500		4		1/4	2-1/2
QGFL46B1T6			4-1/2		3/4	
QGFL48B1	1500 - 2000		4-3/4		1/4	3
QGFL48B1T6			5-1/4		3/4	

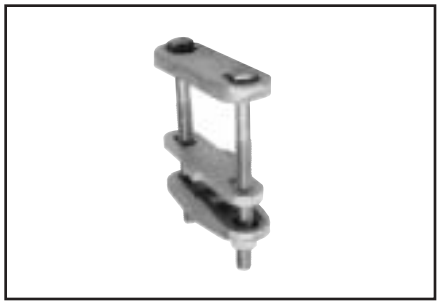
* Can be installed side by side or in line on NEMA drilled bar.

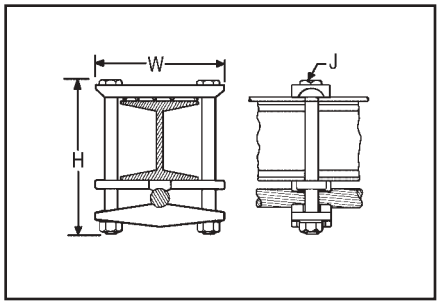
TYPE GA-H

GROUND CONNECTOR

For Copper Cable
to “H” Beam

High copper alloy ground connector for joining a wide range of cable parallel to “H” beams or square tube. Hardware is made from DURIUM™ for superior corrosion protection.



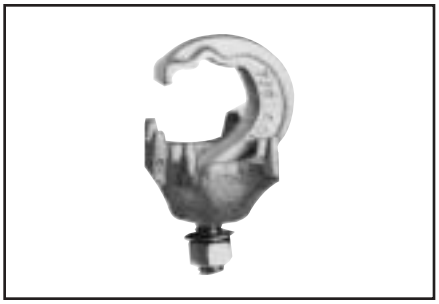


CATALOG NUMBER	CONDUCTOR		H	J	W
	“H” BEAM	CABLE			
GA25H26	1-7/8″ × 1-7/8″ - 2-1/2″ × 2-1/2″	4 Sol. - 2/0 Str.	4-3/4	3/8	4

TYPE GRF

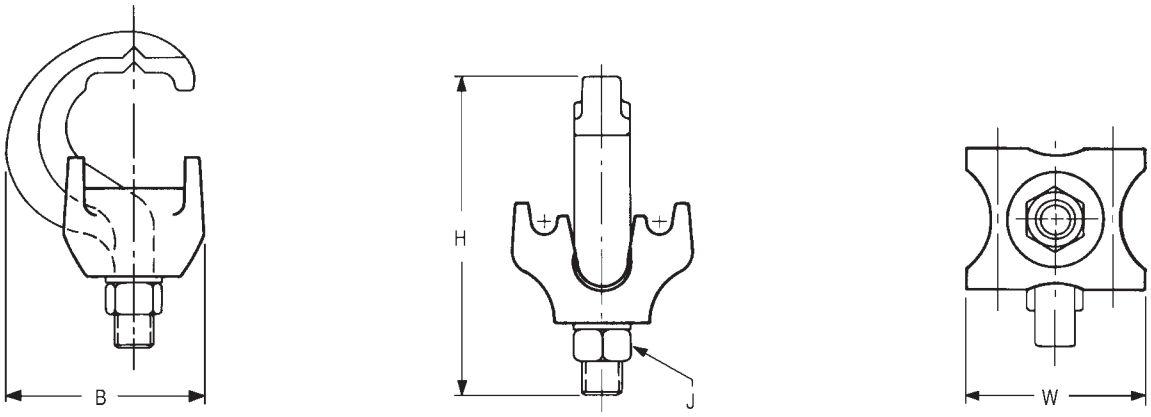
UNIGROUND® RAISED FLOOR GROUNDING CONNECTOR

The BURNDY® Uniground® is a universal grounding clamp, specifically designed for all raised flooring systems. It can be installed on round or square pedestals and can accommodate one or two grounding wires to make an efficient grid. The underfloor signal reference grid provides the low impedance ground path that attenuates high frequency static and 60 Hz transient noise for cleaner data output. UL467 Listed.



Features and Benefits

- One connector fits all applications.
  - ◊ Ease of specification and installation.
- Single bolt design.
  - ◊ Ease of installation:
  - ◊ — No need to disassemble.
  - ◊ — Single wrench installation.
- Accepts 1 or 2 ground conductors.
  - ◊ Requires less connectors to install signal reference grid.
- Tin plated cast bronze construction.
  - ◊ Resists corrosion and provides extended life ground connection.
- Grounds all pedestals (round or square). Will handle up to 7/8″ square and 1″ round.
  - ◊ Ease of installation. One connector does it all
- Serves 3 needs:
  1. Signal Reference Grid.
  2. Static Ground.
  3. Fault Current Ground.
  - ◊ Uniground solves all possible grounding problems found in computer applications today.



CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE SOL. & STR.	PEDESTAL TYPE		B	H	J	W
			ROUND	SQUARE				
GRF4C-3	1 or 2	#8 - #2	Up to 1″	Up to 7/8″	1.96	3.14	3/8″	1.76
GRF4C-4	1 or 2	#8 - #2	Up to 3/4″	Up to 5/8″	1.79	3.13	3/8″	1.40

TYPES GP-G1, GP-RT

RAISED FLOOR GROUNDING CLAMPS

High copper alloy ground connector for raised floor computer grounding applications. These connectors can be installed on round and square pedestal applications and will accommodate one or two grounding wires to make an efficient grid. The underfloor signal reference grid provides the low impedance ground path that attenuates high frequency static and 60 Hz transient noise for cleaner data output. UL467 Listed.

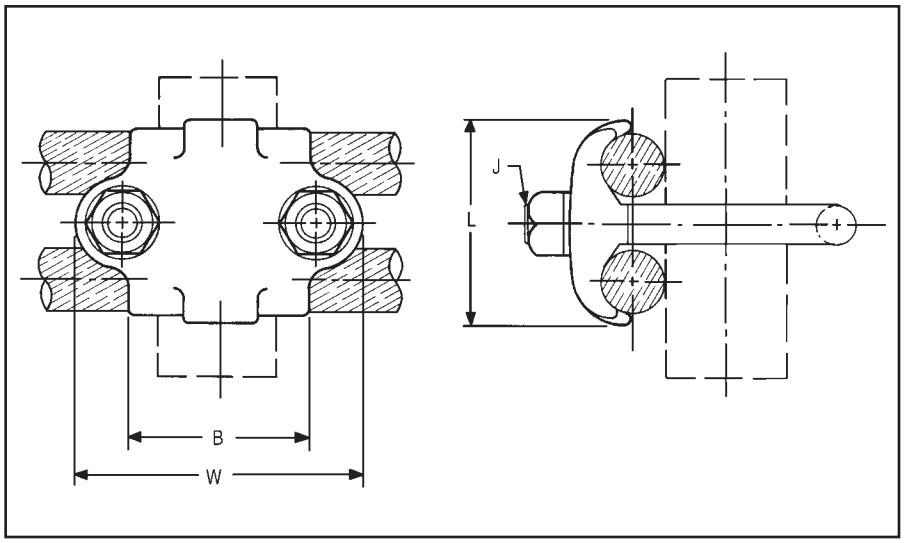
In addition we offer the GP1726RT, which is especially designed for penetrating epoxy paint on pedestals. This patented connector offers a low impedance, time saving connection between conductors and the Pedestal.

D-50


GP1726RT

Features and Benefits

- Accepts 1 or 2 Ground Conductors
  - ◊ Requires less connectors to install signal reference grid.
- Made of copper alloy.
- Durium U-Bolts, nuts and lockwashers.
  - ◊ Provides a low impedance ground path for maximum performance.
- Grounds all pedestals (round or square).
- Will handle from ¾″ to 1″ round or square.
  - ◊ Ease of installation.
- Serves 3 needs.
  1. Signal Reference Grid.
  2. Static Ground.
  3. Fault Current Ground.
  - ◊ Connectors solves all possible grounding problems found in computer applications today.



CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE SOL. & STR.	PEDESTAL TYPE ROUND OR SQUARE	B	J	L	W
GP654CG1	1 or 2	#8 Sol. - 4 Str.	3/4″ - 1″ Round	1.5	3/8″	1.31	2.38
GP64526G1	1 or 2	#4 Sol. - 2/0 Str.	3/4″ - 7/8″ Square	1.5	3/8″	1.69	2.38
GP1526G1	1 or 2	#4 Sol. - 2/0 Str.	1-1/4″ Round	1.75	3/8″	1.69	2.62
GP1726RT	1 or 2	#6 Sol. - 2/0 Str.	2″ Round	2.12	3/8″	1.50	3.22