

# ***SUTTLE***

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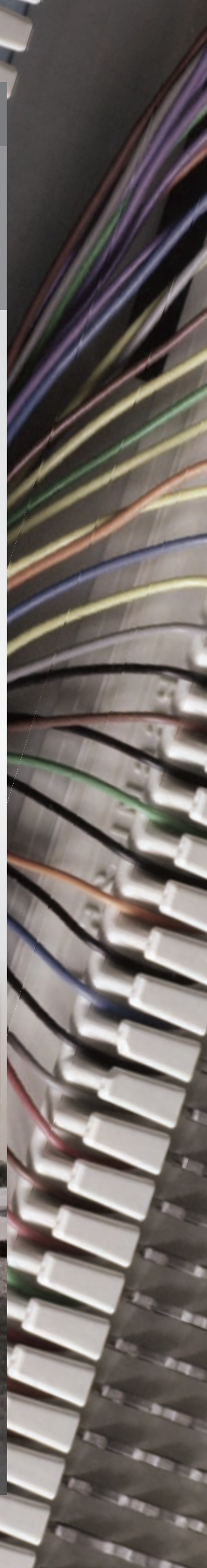
**CONNECTIONS & CABLING SYSTEMS**

# SUTTLE

**FOUNDED IN 1910, SUTTLE IS THE WORLD'S LARGEST SUPPLIER OF HIGH-VOLUME VOICE CONNECTION PRODUCTS USED BY THE WORLD'S LARGEST COMMUNICATIONS COMPANIES.**

Suttle provides connections for voice, data, and video communications throughout the world. Residential or commercial, new installation or retrofit, Suttle has the products to enable reliable communications. Our high-quality and innovative products include the industry leading brand of SOHO Access™ residential structured wiring products, DSL filters, and CorroShield®, a unique line of corrosion-resistant voice and data connectors for hostile operating environments.

A **ISO9001/TL9000** registered company, headquartered in Hector, MN, Suttle is a wholly owned subsidiary of Communications Systems, Inc., a publicly traded company (AMEX: JCS).



## ➔ ASSURANCE

Suttle is proud of our long-standing reputation for providing the telecommunications industry superior products backed by our Certified Installation Training program and 25-Year Warranty.



Suttle's Installer Certification and Warranty Plan gives your installations an edge with the knowledge and support of Suttle, an ISO9001/TL9000 Certified Manufacturer with a reputation of over 97 years of quality and service.

The 25-Year Warranty covers the performance of Suttle's Category 6 and Category 5e Cabling Systems, using Suttle's partners for horizontal cable.

Certified training is now available 24/7 with our online certification program where you can earn both BICSI and CEDIA certification credits. On site training is also offered in several major cities throughout the U.S.

The Installer Certification & Training Program has been rated among the best in the industry. Our knowledgeable trainers or online environment provide excellent training on structured cabling communication systems for beginners, experts, and everyone in-between. Please contact us today to learn more.

Call **800-852-8662** to find a Suttle certified installer in your area or for more information on the warranty and training programs.

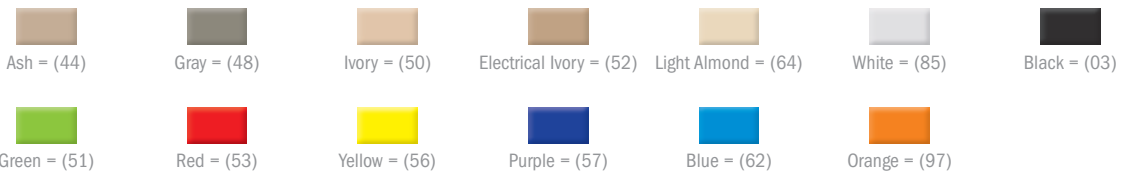
## ➔ HABLAMOS ESPAÑOL

Con una reputación de mas de 97 años de calidad y servicio, Suttle es el proveedor mas grande a nivel mundial de productos de conectividad para voz, datos y microfiltros (ADSL) en la industria de telecomunicaciones.

Para hablar con un representante en español, y recibir información sobre nuestros productos, distribuidores o servicios, marque al **+1-320-848-6711** o correo electrónico: [suttlesales@commsysinc.com](mailto:suttlesales@commsysinc.com)

## ➔ COLOR CHIPS

Suttle provides several products in a variety of colors and shades. The following color chips represent these colors; please use this key to help you determine the color you need.



## ➔ WEBSITE

Visit our websites at [www.suttleonline.com](http://www.suttleonline.com) and [www.suttlesoho.com](http://www.suttlesoho.com) where you can further explore the breadth and depth of our product and service offerings. Suttle's websites also feature:

- Product Releases
- News Updates
- Online Training & Certification Program
- Inventory Reduction Sales
- Literature Library
- Distributor Locator
- Tradeshow Schedule

As part of Suttle's continuous product improvement efforts, Suttle reserves the right to change specifications and availability without notice.







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*Our SOHO Access™ residential structured cabling enclosures and modules provide flexibility and versatility for the termination and management of voice, data, and video connections. Competitively priced and quality built, the SOHO line of products are well equipped to meet all of your communication needs.*
- p54 **STRUCTURED WIRING**  
*Our full line of residential and commercial Structured Wiring solutions meets the voice, data, and video (VDV) connectivity needs of both today and tomorrow. Suttle's versatile multimedia products allow you to maximize the performance of your network and are a perfect complement to the SOHO Access™ line of products.*
- p78 **DSL**  
*Addressing the challenges created by DSL broadband technology deployment's in the home, Suttle's Line Conditioners® filter out any erratic impedances from telephone equipment, delivering reliable high bandwidth DSL transmission capabilities. Suttle DSL Line Conditioners are customer installable and should be used for each active phone line to insure uninterrupted broadband transmission.*
- p86 **FIBER**  
*Suttle's fiber product line includes the revolutionary Terminator™ Field Termination System, QuickTerm connectors, assemblies, and a variety of other complementary products to meet your fiber connectivity needs.*
- p98 **USOC**  
*A listing of Suttle part numbers with wiring diagrams which meet USOC requirements, assisting our valued Suttle customers in ordering appropriate products.*
- p112 **GLOSSARY**  
*A listing of common terms and abbreviations with definitions.*
- p118 **INDEX**  
*A complete listing of part numbers with page locations for products featured in this catalog.*





# TRADITIONAL TELEPHONY

## ➔ TRADITIONAL TELEPHONY CONTENT OVERVIEW

Suttle's Traditional Telephony Product line offers the broadest selection of traditional telephone connecting devices in the world. Our long-standing history of delivering high quality products is apparent throughout our entire offering:

### p08 **CORROSHIELD®**

*Our line of CorroShield products utilize specially formulated dielectric gels which are applied during manufacturing to all surfaces at risk for corrosion. The gel completely surrounds the conducting surfaces protecting them from outside contamination while still maintaining the electrical performance of high speed data transmission.*

### p10 **JACKS AND JACK ASSEMBLIES**

*Available in surface and flush mount, modular and non-modular, indoor and outdoor, 4, 6, and 8 conductor keyed and non-keyed wire configurations. These products are offered in a wide variety of smooth, sleek, durable, and easy-to-install designs as well as several designer colors to complement any home. They install without mounting brackets, can be equipped with spring-loaded trap doors and are available in CorroShield® versions.*

### p20 **DUAL PROVIDER SWITCH PRODUCTS**

*This unique line of Suttle products is designed for multiple service providers to distribute voice service through a home's existing wiring by way of a customer controlled switch.*

### p21 **CONNECTING BLOCKS**

*These connecting blocks provide a simple screw terminal telephony distribution point for a premise network.*

### p24 **FACEPLATES AND BRACKETS**

*The flame-resistant thermoplastic design of our faceplates assures that Suttle's products are built to last. Our mounting brackets are compatible with flush mounting modular and non-modular jacks and our mounting boxes come in a variety of depths to customize your job. They are used to cover jacks, connecting blocks, and unused pre-wired junction boxes.*

### p26 **ADAPTERS AND COUPLERS**

*Used as an inline device, Suttle's adapters modify circuitry without rewiring. Also, our couplers extend modular circuits without hassle by connecting two modular plug-ended line cords. Both Suttle's adapter and coupler products are available in flame-resistant thermoplastic and are UL certified.*

### p31 **NETWORK INTERFACE DEVICES**

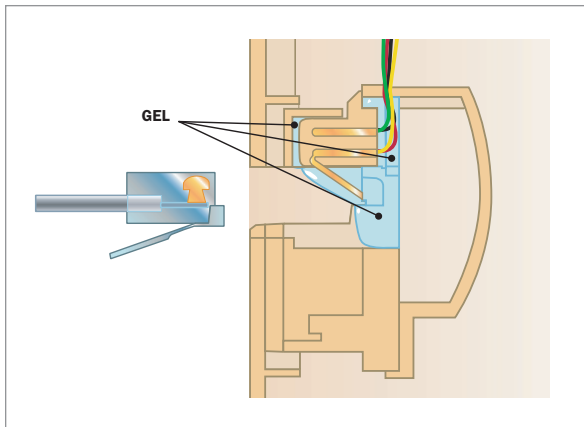
*Suttle's line of NIDs provide access for subscriber testing. The 603NID1 is ideal for voice distribution in the MDU and single family home environment by providing up to 6 POTS phone lines and 11 phone/voice outlets. Our junction boxes come in three designs and can be mounted on baseboards or within the telephone service box.*

### p33 **MISCELLANEOUS**

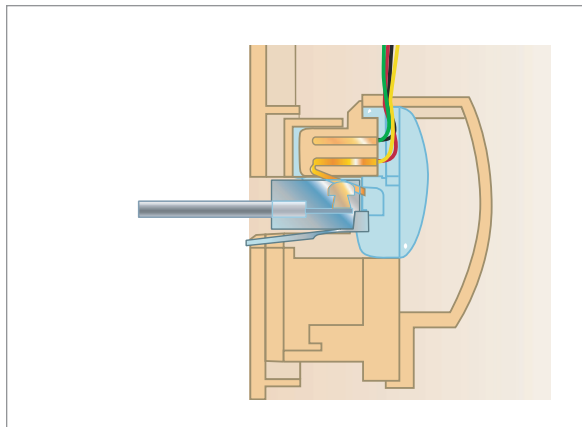
*To fulfill your communication needs, Suttle provides a variety of audio and visual ring indicators including loud ringing bells, electronic ringers, and chime ringers to complement any telephone system. Also included are indicator lights, neon lamps, and standard switch board lamps. Repair, replace, or add as your needs evolve with modular and non-modular plugs, modular line cords and extension cords.*

# CORROSHIELD®

## HOW CORROSHIELD PROTECTS YOUR CONNECTIONS



Prior to plug insertion, the *CorroShield* gel maintains an airtight seal around all conducting surfaces in the jack.



The gel is displaced upon plug insertion, resulting in a protective airtight seal around the plug and jack conducting surfaces.

## WHAT IS CORROSHIELD?

What is *CorroShield*? It is the highest level of protection against the corrosive effects of humidity, saltwater, chemicals, water, dirt, and other contaminants. Now the patented product that the world's largest carriers have standardized on for voice line service has been expanded into modular voice and data products. The applications are far-reaching from high humidity inland communities to coastal locations.

Suttle's family of *CorroShield* products are designed to deliver improved performance and reduced service calls through increased connector reliability. During manufacturing, a specially formulated gel is applied to all surfaces at risk of contamination, completely surrounding the gold contact wires. When the voice or data cord is inserted, the gel forms an airtight seal around the connection, preventing corrosion and other contact problems.

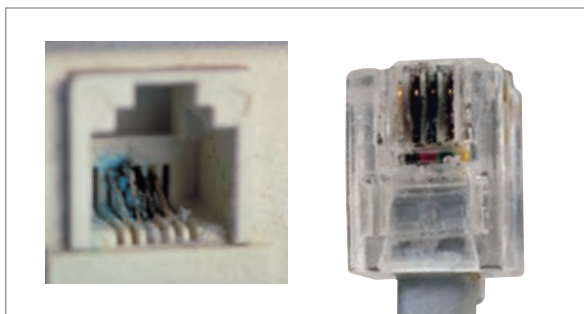
The unique memory characteristics of the *CorroShield* gel continue to deliver long after installation. When the voice or data cord is removed from the connector, the gel will return to its original position, maintaining the airtight seal for up to one hundred insertion events.

The *CorroShield* family of products is available in a variety of configurations including enclosed terminals, filled splice connectors, trap doors, and swinger doors.

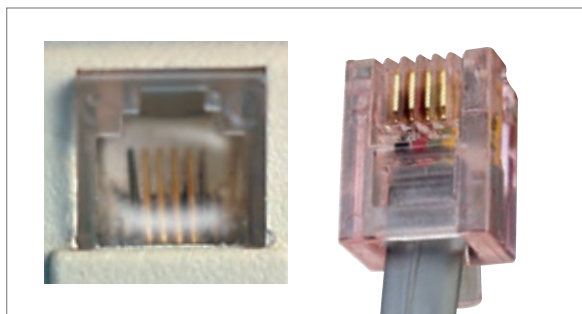
## TYPICAL APPLICATIONS

- Residential
- Business
- MDU
- Hospitality
- Industrial

Ask a Suttle representative for a copy of our White Paper titled: "Improving Voice & Data Network Reliability and Reducing Service Costs: Benefits from an Enhanced Reliability Modular Connection Block."



Modular jack corrosion and contamination results in more than \$1.25 billion in service costs each year in the U.S. alone.<sup>1</sup>



Contact corrosion is easily preventable with Suttle's *CorroShield* Connectors.

<sup>1</sup> "Improving Voice & Data Network Reliability and Reducing Service Costs: Benefits From an Enhanced Reliability Modular Connection Block." Pg. 2. Suttle, 2002.



**TRADITIONAL TELEPHONY**

**FLUSH MOUNT JACK AND JACK ASSEMBLIES >**

SMOOTH FINISH

> SIMPLEX : VOICE

PART#	DESCRIPTION	PAGE
2-3010-xx	4-conductor, screw terminals	10
2-3011-xx	4-conductor, screw terminals, trap door	10
2-3012-xx	4-conductor, filled splice connectors	10
2-3013-xx	4-conductor, filled splice connectors, trap door	10
2-3014-xx	6-conductor, screw terminals	10
2-3015-xx	6-conductor, screw terminals, trap door	10
2-3016-xx	6-conductor, filled splice connectors	10
2-3017-xx	6-conductor, filled splice connectors, trap door	10

> DUPLEX : VOICE, EAST/WEST

PART#	DESCRIPTION	PAGE
2-1010-xx	4/4-conductor, screw terminals	10
2-1011-xx	4/4-conductor, filled splice connectors	10
2-1012-xx	6/6-conductor, screw terminals	10
2-1013-xx	6/6-conductor, filled splice connectors	10

> DUPLEX : VOICE, NORTH/SOUTH

PART#	DESCRIPTION	PAGE
2-2010-xx	4/4-conductor, screw terminals	11
2-2011-xx	4/4-conductor, screw terminals, trap door	11
2-2012-xx	4/4-conductor, filled splice connectors	11
2-2013-xx	4/4-conductor, filled splice connectors, trap door	11
2-2014-xx	6/6-conductor, screw terminals	11
2-2015-xx	6/6-conductor, screw terminals, trap door	11
2-2016-xx	6/6-conductor, filled splice connectors	11
2-2017-xx	6/6-conductor, filled splice connectors, trap door	11

TRADITIONAL JACK PLATES

> SIMPLEX : STANDARD

PART#	DESCRIPTION	PAGE
625B4-4-xxRC	4-conductor, screw terminals	12
625B4-4NS-xxRC	4-conductor, filled splice connectors	12
625B4-6NS-xxRC	6-conductor, filled splice connectors	12

> SIMPLEX : SWINGER DOOR

PART#	DESCRIPTION	PAGE
625FS4-xxRC	4-conductor, screw terminals, swinger door	12
625FSNS4-xxRC	4-conductor, filled splice connectors, swinger door	12
625FSNS6-xxRC	6-conductor, filled splice connectors, swinger door	12

> DUPLEX : EAST/WEST

PART#	DESCRIPTION	PAGE
625D4-xxRC	4/4-conductor, screw terminals	13
625D4NS-xxRC	4/4-conductor, filled splice connectors	13
625D6-xxRC	6/6-conductor, screw terminals	13
625D6NS-xxRC	6/6-conductor, filled splice connectors	13

MODULAR STYLE JACKS

> MODULAR JACKS WITH FACEPLATES WITH BRACKETS

PART#	DESCRIPTION	PAGE
625BE4NS-xxRC	4-conductor, filled splice connectors, trap door, 19E faceplate, 43C bracket	13
625B1E4-xxRC	4-conductor, screw terminals, 19A faceplate, 43A bracket, trap door	13
625B1E4NS-xxRC	4-conductor, filled splice connectors, 19A faceplate, 43A bracket, trap door	13
625B2E4NS-xxRC	4-conductor, filled splice connectors, 16A faceplate, with bracket, trap door	13

> MODULAR JACKS

PART#	DESCRIPTION	PAGE
625FE4-xxRC	4-conductor, screw terminals, trap door	14
625FE4NS-xxRC	4-conductor, filled splice connectors, trap door	14

**WALL MOUNT JACK AND JACK ASSEMBLIES >**

> PLASTIC : WITH MOUNTING LUGS

PART#	DESCRIPTION	PAGE
630AC4-xxRC	4-conductor, screw terminals	15
630AC4NS-xxRC	4-conductor, filled splice connectors, riser plate	15
630AC6NS-50RC	6-conductor, filled splice connectors, riser plate	15
630AP4NS-50RC	4-conductor, filled splice connectors	15
630AP6NS-50RC	6-conductor, filled splice connectors	15

> STAINLESS STEEL : WALL MOUNT JACK ASSEMBLIES

PART#	DESCRIPTION	PAGE
630AD4NS-RC	4-conductor, filled splice connectors, riser plate, mounting lugs	16
630AD6NS-RC	6-conductor, filled splice connectors, riser plate, mounting lugs	16

**SURFACE MOUNT JACK AND JACK ASSEMBLIES >**

SCREW ON COVER

> SIMPLEX

PART#	DESCRIPTION	PAGE
625C4-xxRC	4-conductor, spade terminals, cover only, used with 020031-50 block	17
625A4-xxRC	4-conductor, screw terminals	17
625A6-xxRC	6-conductor, screw terminals	17
625AS4-xxRC	4-conductor, screw terminals	17
625AS4NS-xxRC	4-conductor, filled splice connectors	17
625AS6NS-xxRC	6-conductor, filled splice connectors	17

> DUPLEX

PART#	DESCRIPTION	PAGE
104A4NS-RC	4/4 conductor, filled splice connectors	18

> SNAP ON COVER, FACTORY WIRED

PART#	DESCRIPTION	PAGE
625A2-4-xxRC	4-conductor, screw terminals	18
625A2-6-xxRC	6-conductor, screw terminals	18
625A2-4NS-xxRC	4-conductor, filled splice connectors	18
625A2-6NS-xxRC	6-conductor, filled splice connectors	18

> SWINGER DOOR SURFACE MOUNT

PART#	DESCRIPTION	PAGE
625SA4-xxRC	4-conductor, screw terminals	19
625SA6-xxRC	6-conductor, screw terminals	19
625SANS4-xxRC	4-conductor, filled splice connectors	19
625SANS6-xxRC	6-conductor, filled splice connectors	19

OUTDOOR JACK ASSEMBLIES

> SURFACE MOUNT BOX/JACKS

PART#	DESCRIPTION	PAGE
19316L7-4NS-RC	4-conductor, filled splice connectors	23

MISCELLANEOUS

> MODULAR LINE CORDS

PART#	DESCRIPTION	PAGE
7200-07-WRC1	4-conductor, 7-ft., CorroShield plugs	33

**STRUCTURED WIRING**

SPEEDSTAR > JACKS

> DATA JACKS: CATEGORY 5e

PART#	DESCRIPTION	PAGE
STAR600A-RC	8-position, 8-conductor, 568A, 110 IDC blocks	57
STAR600B-RC	8-position, 8-conductor, 568B, 110 IDC blocks	57

> VOICE JACKS

PART#	DESCRIPTION	PAGE
STAR600V6-RC	6-position, 6-conductor, 110 IDC blocks	57

# JACK AND JACK ASSEMBLIES

## FLUSH MOUNT > SMOOTH FINISH

Behind the sleek modern surface of our smooth finish jack plates, you'll find the durable, easy mounting design that makes Suttle the industry leader. They install without mounting brackets, can be equipped with spring-loaded trap doors and are available in both standard (dry) and *CorroShield* (gelled) versions for long-lasting corrosion protection.

- Smooth, sleek design matches electrical faceplates
- Mounting screws provided with painted heads to blend smoothly into the design of the faceplate

### SIMPLEX : VOICE



2-3001-xx

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>2-3001-xx</b>	4-conductor, screw terminals		USOC
<b>2-3002-xx</b>	4-conductor, screw terminals		USOC
<b>2-3010-xx</b>	4-conductor, screw terminals	<i>CorroShield</i>	USOC
<b>2-3011-xx</b>	4-conductor, screw terminals, trap door	<i>CorroShield</i>	USOC
<b>2-3012-xx</b>	4-conductor, filled splice connectors	<i>CorroShield</i>	USOC
<b>2-3013-xx</b>	4-conductor, filled splice connectors, trap door	<i>CorroShield</i>	USOC
<b>2-3003-xx</b>	6-conductor, screw terminals		USOC
<b>2-3004-xx</b>	6-conductor, screw terminals, trap door		USOC
<b>2-3014-xx</b>	6-conductor, screw terminals	<i>CorroShield</i>	USOC
<b>2-3015-xx</b>	6-conductor, screw terminals, trap door	<i>CorroShield</i>	USOC
<b>2-3016-xx</b>	6-conductor, filled splice connectors	<i>CorroShield</i>	USOC
<b>2-3017-xx</b>	6-conductor, filled splice connectors, trap door	<i>CorroShield</i>	USOC

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)

### SIMPLEX : VIDEO



PART#	DESCRIPTION
<b>2-3020-xx</b>	F81 barrel connector

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)

### DUPLEX : VOICE, EAST/WEST



2-1001-xx

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>2-1001-xx</b>	4/4-conductor, screw terminals		USOC
<b>2-1001S-xx</b>	4/4-conductor, screw terminals, Line 1 & 2 switches for Service Provider A/Service Provider B		USOC
<b>2-1010-xx</b>	4/4-conductor, screw terminals	<i>CorroShield</i>	USOC
<b>2-1011-xx</b>	4/4-conductor, filled splice connectors	<i>CorroShield</i>	USOC
<b>2-1002-xx</b>	6/6-conductor, screw terminals		USOC
<b>2-1012-xx</b>	6/6-conductor, screw terminals	<i>CorroShield</i>	USOC
<b>2-1013-xx</b>	6/6-conductor, filled splice connectors	<i>CorroShield</i>	USOC
<b>2-1014-xx</b>	4/4-conductor, filled splice connectors, loop wiring (bridged)		USOC

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)



**DUPLEX : VOICE, NORTH/SOUTH**



2-2001-xx

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>2-2001-xx</b>	4/4-conductor, screw terminals		USOC
<b>2-2002-xx</b>	4/4-conductor, screw terminals, trap door		USOC
<b>2-2010-xx</b>	4/4-conductor, screw terminals	CorroShield	USOC
<b>2-2011-xx</b>	4/4-conductor, screw terminals, trap door	CorroShield	USOC
<b>2-2012-xx</b>	4/4-conductor, filled splice connectors	CorroShield	USOC
<b>2-2013-xx</b>	4/4-conductor, filled splice connectors, trap door	CorroShield	USOC
<b>2-2006-xx</b>	6/6-conductor, 110 IDC block terminals		USOC
<b>2-2003-xx</b>	6/6-conductor, screw terminals		USOC
<b>2-2004-xx</b>	6/6-conductor, screw terminals, trap door		USOC
<b>2-2008-xx</b>	Oversized 6/6-conductor, screw terminals		USOC
<b>2-2014-xx</b>	6/6-conductor, screw terminals	CorroShield	USOC
<b>2-2015-xx</b>	6/6-conductor, screw terminals, trap door	CorroShield	USOC
<b>2-2016-xx</b>	6/6-conductor, filled splice connectors	CorroShield	USOC
<b>2-2017-xx</b>	6/6-conductor, filled splice connectors, trap door	CorroShield	USOC
<b>2-2030-xx</b>	4/4-conductor, filled splice connectors, loop wiring (bridged)		USOC

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)

**VOICE/VIDEO COMBINATION, NORTH/SOUTH**



Combination Voice/Video jack assemblies are ideal for video applications in a residential setting.



2-2022-xx

PART#	DESCRIPTION	WIRING
<b>2-2021-xx</b>	(1) 4-conductor, screw terminal (1) F81 Barrel connector	USOC
<b>2-2022-xx</b>	(1) 4-conductor, screw terminal, trap door (1) F81 Barrel connector	USOC
<b>2-2023-xx</b>	(1) 6-conductor, screw terminal (1) F81 Barrel connector	USOC
<b>2-2024-xx</b>	(1) 6-conductor, screw terminal, trap door (1) F81 Barrel connector	USOC
<b>2-2020-xx</b>	(2) F81 Barrel connector	USOC

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)

**NEW VOICE/DATA COMBINATION, EAST/WEST**



2-5001-xx

- Attractive one piece design
- Available in standard and oversized
- Labeled ports PHONE, DATA
- Mounting screws included

PART#	DESCRIPTION
<b>2-5001-xx</b>	Standard faceplate, voice/data: 6-conductor/8-conductor, CAT5e, 110 IDC
<b>2-5001M-xx</b>	Oversized faceplate, voice/data: 6-conductor/8-conductor, CAT5e, 110 IDC

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)

**NEW VOICE/DATA/VIDEO COMBINATION, EAST/WEST**



2-5001-FC-xx

- Attractive one piece design
- Available in standard and oversized
- Labeled ports PHONE, DATA, VIDEO
- Mounting screws included

PART#	DESCRIPTION
<b>2-5001-F-xx</b>	Standard faceplate, voice/data: 6-conductor/8-conductor, CAT5e, 110 IDC, video: 1GHz F81 barrel connector
<b>2-5001M-F-xx</b>	Oversized faceplate, voice/data: 6-conductor/8-conductor, CAT5e, 110 IDC, video: 1GHz F81 barrel connector
<b>2-5001-FC-xx</b>	Standard faceplate, voice/data: 6-conductor/8-conductor, CAT5e, 110 IDC; video: 3GHz F81 barrel connector, SCTE compliant (SCTE 02 2006)
<b>2-5001M-FC-xx</b>	Oversized faceplate, voice/data: 6-conductor/8-conductor, CAT5e, 110 IDC, video: 3GHz F81 barrel connector, SCTE compliant (SCTE 02 2006)

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)

## FLUSH MOUNT > TRADITIONAL JACK PLATES

Suttle's simplex and duplex jack plates provide versatile flush mounted connections in aesthetically pleasing styles and colors. Available in both standard (dry) and *CorroShield* (gelled) versions for long-lasting corrosion protection.

- Mounted with brackets or directly to the wall
- Available in 4, 6, and 8 conductor configurations
- USOC Wiring

### SIMPLEX : STANDARD

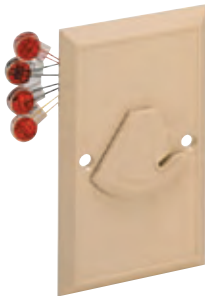


625B4-4-xx

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>625B4-4-xx</b>	4-conductor, screw terminals		USOC
<b>625B4-4-xxRC</b>	4-conductor, screw terminals	<i>CorroShield</i>	USOC
<b>625B4-4NS-xxRC</b>	4-conductor, filled splice connectors	<i>CorroShield</i>	USOC
<b>625B4E4-xx</b>	4-conductor, screw terminals, trap door		USOC
<b>625B4-6-xx</b>	6-conductor, screw terminals		USOC
<b>625B4-6NS-xxRC</b>	6-conductor, filled splice connectors	<i>CorroShield</i>	USOC
<b>635A8-50</b>	8-conductor, screw terminals, non-keyed jack		RJ31X, Shorting bar (1&4, 5&8)
<b>697B8-50</b>	8-conductor, screw terminals, keyed jack		Programmable resistors
<b>697B8NK-xx</b>	8-conductor, screw terminals, non-keyed jack		USOC

COLORS (-xx): Ivory = (50) Electrical Ivory = (52) White = (85)

### SIMPLEX : SWINGER DOOR



625FSNS4-xxRC

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>625FS4-xx</b>	4-conductor, screw terminals, swinger door		USOC
<b>625FS4-xxRC</b>	4-conductor, screw terminals, swinger door	<i>CorroShield</i>	USOC
<b>625FSNS4-xxRC</b>	4-conductor, filled splice connectors, swinger door	<i>CorroShield</i>	USOC

COLORS (-xx): Electrical Ivory = (52) White = (85)

### DUPLEX : NORTH/SOUTH



625B3-4-xx

PART#	DESCRIPTION	WIRING
<b>625B3-4-xx</b>	4/4-conductor, screw terminals	USOC
<b>625B3E4-xx</b>	4/4-conductor, screw terminals, trap door	USOC
<b>625B3-6-xx</b>	6/6-conductor, screw terminals	USOC
<b>625B3E6-xx</b>	6/6-conductor, screw terminals, trap door	USOC
<b>625B3-8-50</b>	8/8-conductor, screw terminals, keyed/non-keyed	USOC
<b>625B38NK-50</b>	8/8-conductor, screw terminals, non-keyed/non-keyed	USOC
<b>635B68-50</b>	(1) 8-conductor, screw terminals, non-keyed (1) 4-conductor, screw terminals, trap door	RJ31X, Shorting bar (1&4, 5&8) USOC
<b>635B68JP-50</b>	(1) 6-position, 4-conductor, modular jack (1) 8-position, 8-conductor, modular jack RJ11 and RJ45 are bridged (1) RJ45 Dust plug included	RJ31X, Shorting bar (1&4, 5&8) USOC
<b>697B68H-50</b>	6/8 conductor, screw terminals, non-keyed/keyed	USOC

COLORS (-xx): Ivory = (50) White = (85)

**DUPLEX : EAST/WEST**



- Includes label for easy identification



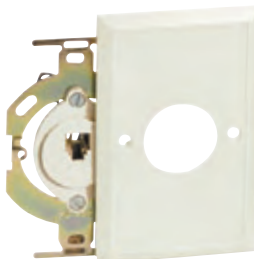
625D4-xx

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>625D4-xx</b>	4/4- conductor, screw terminals		USOC
<b>625D4-xxRC</b>	4/4- conductor, screw terminals	CorroShield	USOC
<b>625D4NS-52RC</b>	4/4- conductor, filled splice connectors	CorroShield	USOC
<b>625D6-xx</b>	6/6- conductor, screw terminals		USOC
<b>625D6-52RC</b>	6/6- conductor, screw terminals	CorroShield	USOC
<b>625D6NS-52RC</b>	6/6- conductor, filled splice connectors	CorroShield	USOC

COLORS (-xx): Ivory = (50) Electrical Ivory = (52) White = (85)

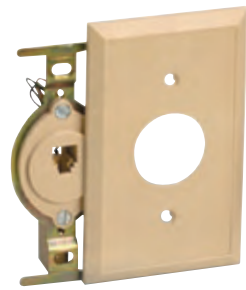
**FLUSH MOUNT > MODULAR STYLE JACKS**

**MODULAR JACKS WITH FACEPLATES WITH BRACKETS**



625B-xx

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>625B-xx</b>	4- conductor, screw terminals, 19E faceplate, 43C bracket		USOC
<b>625BE4NS-xxRC</b>	4- conductor, filled splice connectors, trap door, 19E faceplate, 43C bracket	CorroShield	USOC



625B1-4-50

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>625B1-4-50</b>	4- conductor, screw terminals, 19A faceplate, 43A bracket		USOC
<b>625B1E4-50</b>	4- conductor, screw terminals, 19A faceplate, 43A bracket, trap door		USOC
<b>625B1E4-85RC</b>	4- conductor, screw terminals, 19A faceplate, 43A bracket, 19A faceplate, 43A bracket, trap door	CorroShield	USOC



625B2-4-50

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>625B2-4-50</b>	4- conductor, screw terminals, 16A faceplate, with bracket		USOC
<b>625B2E4NS-xxRC</b>	4- conductor, filled splice connectors, 16A faceplate, with bracket, trap door	CorroShield	USOC

COLORS (-xx): Ivory = (50) Electrical Ivory = (52) White = (85)



MODULAR JACKS



625F4-xx

PART#	DESCRIPTION	WIRING
<b>625F4-xx</b>	4-conductor, screw terminals	USOC

COLORS (-xx): Ivory = (50) Electrical Ivory = (52) White = (85)



625FE4NS-xxRC

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>625FE4NS-xxRC</b>	4-conductor, filled splice connectors, trap door	CorroShield	USOC

COLORS (-xx): Ivory = (50) Electrical Ivory = (52) White = (85)



102A6-50

PART#	DESCRIPTION	WIRING
<b>102A6-50</b>	6-conductor, 110 IDC terminals	USOC
<b>102A8-52</b>	8-conductor, 110 IDC terminals, non-keyed	568B

COLORS (-xx): Ivory = (50) Electrical Ivory = (52)

FLUSH MOUNT > EUROPEAN-STYLE JACKS

Subtle's European style flush mount jacks allow for mounting on 85mm square outlet boxes typically used in European wiring systems. All are supplied with 3.5 x 6.0 mm mounting screws.

EUROPEAN-STYLE FLUSH MOUNT JACKS



333AE4-85

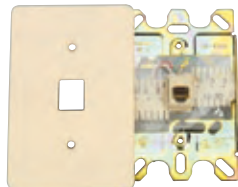
PART#	DESCRIPTION	WIRING
<b>333AE4-85</b>	4-conductor, screw terminals, trap door	USOC
<b>333AE6-85</b>	6-conductor, screw terminals, trap door	USOC

COLOR: White

## WALL MOUNT JACK ASSEMBLIES

- Versatile mounting options
- Can be mounted on a standard outlet box for pre-wired installations, or attached directly to the wall
- Entire terminal block is enclosed in a plastic wrapper to eliminate corrosion and shorting out due to condensation or incidental moisture

### PLASTIC : WITHOUT MOUNTING LUGS



630AB4-xx

PART#	DESCRIPTION	WIRING
<b>630AB4-xx</b>	4-conductor, quick-connect terminals, no mounting lugs	USOC
<b>630AB6-xx</b>	6-conductor, quick-connect terminals, no mounting lugs	USOC

*Note: Quick Connect Terminals require use of 797A installation tool (see page 35).*



630ABS6-xx

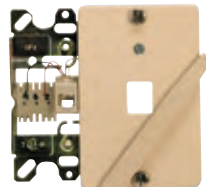
PART#	DESCRIPTION	WIRING
<b>630ABS4-xx</b>	4-conductor, screw terminals, no mounting lugs	USOC
<b>630ABS6-xx</b>	6-conductor, screw terminals, no mounting lugs	USOC

COLORS (-xx): Ash = (44) Ivory = (50)

### PLASTIC : WITH MOUNTING LUGS

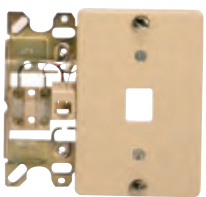


- Packaged with mounting lugs for use with modular wall telephones or plastic inserts for desk applications



630ABC4-xx

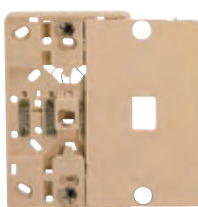
PART#	DESCRIPTION	WIRING
<b>630ABC4-xx</b>	4-conductor, quick-connect terminals, includes 797A termination tool	USOC
<b>630ABC6-xx</b>	6-conductor, quick-connect terminals, includes 797A termination tool	USOC



630AC4-xx

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>630AC4-xx</b>	4-conductor, screw terminals		USOC
<b>630AC4-xxRC</b>	4-conductor, screw terminals	CorroShield	USOC
<b>630AC4NS-xxRC</b>	4-conductor, filled splice connectors, riser plate	CorroShield	USOC
<b>630AC6-xx</b>	6-conductor, screw terminals		USOC
<b>630AC6NS-50RC</b>	6-conductor, filled splice connectors, riser plate	CorroShield	USOC

COLORS (-xx): Ash = (44) Ivory = (50) Electrical Ivory = (52)



630AP4-xx

**IN DEPTH:** 630AP wall plates feature an all plastic wall plate with a snap-on cover

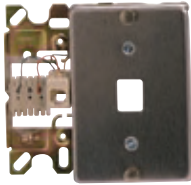
PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>630AP4-xx</b>	4-conductor, screw terminals		USOC
<b>630AP4NS-50RC</b>	4-conductor, filled splice connectors	CorroShield	USOC
<b>630AP6-xx</b>	6-conductor, screw terminals		USOC
<b>630AP6NS-50RC</b>	6-conductor, filled splice connectors	CorroShield	USOC
<b>630AP8-xx</b>	8-conductor, screw terminals		USOC

COLORS (-xx): Ash = (44) Ivory = (50) Elect. Ivory = (52) White = (85)

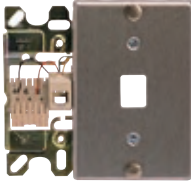
## STAINLESS STEEL - WALL MOUNT JACK ASSEMBLIES



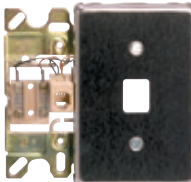
- Can be mounted on a standard outlet box for pre-wired installations, or attached directly to the wall
- Entire terminal block is enclosed in a plastic wrapper to eliminate corrosion and shorting out due to condensation or incidental moisture
- Stainless steel resists scratching, cleaning solutions, and corrosive environments
- Riser plate included with *CorroShield* models



630A4



630B4



630ANS4

PART#	DESCRIPTION	WIRING
<b>630A4</b>	4-conductor, quick connect terminals, mounting lugs	USOC
<b>630A6</b>	6-conductor, quick connect terminals, mounting lugs	USOC

Note: Quick Connect Terminals require use of 797A installation tool (see page 35).

PART#	DESCRIPTION	WIRING
<b>630B4</b>	4-conductor, quick connect terminals with retaining clips, mounting lugs	USOC
<b>630B6</b>	6-conductor, quick connect terminals with retaining clips, mounting lugs	USOC

Note: Quick Connect Terminals require use of 797A installation tool (see page 35).

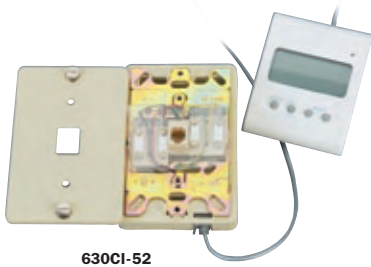
PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>630AD4</b>	4-conductor, screw terminals, mounting lugs		USOC
<b>630AD4NS-RC</b>	4-conductor, filled splice connectors, riser plate, mounting lugs	<i>CorroShield</i>	USOC
<b>630AD4-RC44</b>	4-conductor, no riser plate, mounting lugs	<i>CorroShield</i>	USOC
<b>630AD6</b>	6-conductor, screw terminals, mounting lugs		USOC
<b>630AD6NS-RC</b>	6-conductor, filled splice connectors, riser plate, mounting lugs	<i>CorroShield</i>	USOC

PART#	DESCRIPTION	WIRING
<b>630ANS4</b>	4-conductor, screw terminals, no mounting lugs	USOC
<b>630ANS6</b>	6-conductor, screw terminals, no mounting lugs	USOC

## CALLER ID WALL MOUNT JACK ASSEMBLIES



Suttle's 630CI wall-mount jack assembly is designed for the connection of Caller ID display modules. The user's Caller ID module is plugged into the 630CI base for connection. In addition to Caller ID boxes, this can also be used with any ancillary device with a plug-ended line cord such as answering machines and auto dialers.



630CI-52

- Thermoplastic faceplate allows for two mounting options:
  - Mounting lugs for wall telephones
  - Color-keyed inserts for desk telephones
- Riser plate
- Jack is wired directly to terminal screws of the 630AC4

PART#	DESCRIPTION	WIRING
<b>630CI-xx</b>	4-conductor, screw terminal, mounting lugs, riser plate	USOC

COLORS (-xx):  Electrical Ivory = (52)  White = (85)

Caller ID module not included (pictured)

## MODULAR WALL-IN-STALL JACKS



631A

Suttle wall-in-stall jacks provide an extra modular jack when installing a wall phone.

- Adapter easily installs over most wall phone jacks
- No new wiring or disassembly of the telephone is necessary
- Extra modular jack for connecting answering machines, recording devices, automatic dialer, and other phone accessories requiring a modular jack
- Equipped with mounting lugs

PART#	DESCRIPTION	LABEL	WIRING
<b>631A</b>	One jack wired parallel for extension phones		USOC
<b>632A</b>	Two jacks wired for series connection	LINE and PHONE	USOC

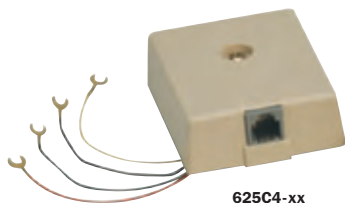


## ➔ SURFACE MOUNT JACK ASSEMBLIES > SCREW ON COVER

Available in both standard (dry) and *CorroShield* (gelled) versions.

- Captive retaining screw keeps the cover securely fastened, preventing damage to the assembly
- 110 IDC or filled splice connector terminations eliminate stripping and wrapping of wires
- Threaded brass screw inserts and washered screw terminals increase reliability and provide positive long-lasting connections
- Designed for mounting on baseboards, walls, or other flat surfaces
- 103 & 104 jacks include double-sided adhesive pad

### SIMPLEX



625C4-xx

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>625C4-xx</b>	4-conductor, spade terminals, cover only, used with 020031-50 block		USOC
<b>625C4-xxRC</b>	4-conductor, spade terminals, cover only, used with 020031-50 block	<i>CorroShield</i>	USOC USOC

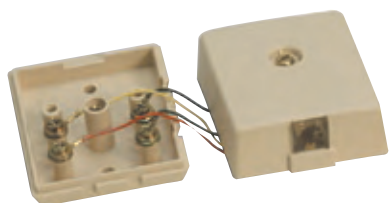
COLORS (-xx): Ivory = (50) Electrical Ivory = (52) White = (85)



625A4-xx

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>625A4-xx</b>	4-conductor, screw terminals		USOC
<b>625A4-xxRC</b>	4-conductor, screw terminals	<i>CorroShield</i>	USOC
<b>625A6-xx</b>	6-conductor, screw terminals		USOC
<b>625A6-xxRC</b>	6-conductor, screw terminals	<i>CorroShield</i>	USOC

COLORS (-xx): Ivory = (50) Electrical Ivory = (52) White = (85)



625AS4-xxRC

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>625AS4-xxRC</b>	4-conductor, screw terminals	<i>CorroShield</i>	USOC

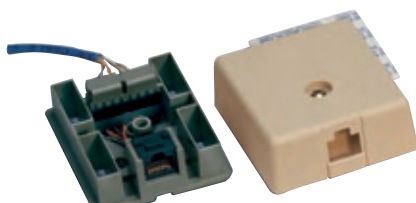
COLORS (-xx): Ivory = (50) Electrical Ivory = (52) White = (85)



625AS4NS-xxRC

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>625AS4NS-xxRC</b>	4-conductor, filled splice connectors	<i>CorroShield</i>	USOC
<b>625AS6NS-xxRC</b>	6-conductor, filled splice connectors	<i>CorroShield</i>	USOC

COLORS (-xx): Ivory = (50) Electrical Ivory = (52) White = (85)



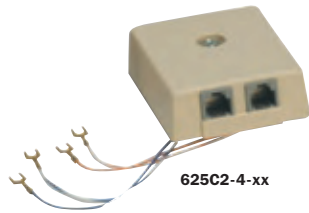
103A8-xx

PART#	DESCRIPTION	WIRING
<b>103A4-50</b>	4-conductor, 110 IDC terminals	USOC
<b>103A6-xx</b>	6-conductor, 110 IDC terminals	USOC
<b>103A8-xx</b>	8-conductor, 110 IDC terminals	568B
<b>103AY8-xx</b>	8-conductor, 110 IDC terminals	USOC

COLORS (-xx): Electrical Ivory = (52) White = (85)

Includes double-sided adhesive pad

DUPLEX



625C2-4-xx



104C8-xx



104A4NS-xxRC

PART#	DESCRIPTION	WIRING
<b>625C2A-4-xx</b>	2/2 conductor, spade tipped leads. Cover with 020031 -50 block	USOC
<b>625C2-4-xx</b>	2/2 conductor, spade tipped leads - cover only, requires 020031 -50 block	USOC

COLORS (-xx): Ivory = (50) Electrical Ivory = (52) White = (85)

PART#	DESCRIPTION	LABEL	WIRING
<b>104A4-xx</b>	4/4 conductor, 110 IDC terminals	LINE 1/LINE 2	USOC
<b>104B4-50</b>	4/4 conductor, 110 IDC terminals	VOICE/VOICE	USOC
<b>104A6-xx</b>	6/6 conductor, 110 IDC terminals	LINE 1/LINE 2	USOC
<b>104B6-xx</b>	6/6 conductor, 110 IDC terminals	VOICE/VOICE	USOC
<b>104A8-xx</b>	8/8 conductor, 110 IDC terminals, non-keyed	LINE 1/LINE 2	568B
<b>104AY8-52</b>	8/8 conductor, 110 IDC terminals, non-keyed	LINE 1/LINE 2	USOC
<b>104B8-xx</b>	8/8 conductor, 110 IDC terminals, keyed/non-keyed	VOICE/DATA	568B
<b>104BY8-xx</b>	8/8 conductor, 110 IDC terminals, keyed/non-keyed	VOICE/DATA	USOC
<b>104C8-xx</b>	8/8 conductor, 110 IDC terminals, keyed	DATA/DATA	568B

COLORS (-xx): Ivory = (50) Electrical Ivory = (52) White = (85)

Includes double-sided adhesive pad

PART#	DESCRIPTION	CORROSHIELD	LABEL	WIRING
<b>104A4NS-xxRC</b>	4/4 Conductor, filled splice connectors	<i>CorroShield</i>	1 / 2	USOC

COLORS (-xx): Electrical Ivory = (52) White = (85)

Includes double-sided adhesive pad

SNAP-ON COVER, FACTORY WIRED



Available in both standard (dry) and *CorroShield* (gelled) versions.

- Snap-on cover and factory wired for quick installation
- Double-sided adhesive pad included for versatile mounting options
- Available with USOC RJ48X/RJ31X wiring for security alarm or life-line applications



625A2-4-xx



625A2-4NS-xxRC

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>625A2-4-xx</b>	4-conductor, screw terminals		USOC
<b>625A2-4-xxRC</b>	4-conductor, screw terminals	<i>CorroShield</i>	USOC
<b>625A2-4NS-xxRC</b>	4-conductor, filled splice connectors	<i>CorroShield</i>	USOC
<b>625A2-6-xx</b>	6-conductor, screw terminals		USOC
<b>625A2-6-xxRC</b>	6-conductor, screw terminals	<i>CorroShield</i>	USOC
<b>625A2-6NS-xxRC</b>	6-conductor, filled splice connectors	<i>CorroShield</i>	USOC

COLORS (-xx): Ivory = (50) Electrical Ivory = (52) White = (85)

PART#	DESCRIPTION	WIRING
<b>625A28NKxx</b>	8-conductor, screw terminals, non-keyed	USOC
<b>625A28K-xx</b>	8-conductor, screw terminals, keyed	USOC
<b>625A28SBxx</b>	8-conductor, screw terminals, non-keyed	RJ31X shorting bar (1&4, 5&8)
<b>625A28KRxx</b>	8-conductor, screw terminals, keyed	programming resistors
<b>625A28NK-2-xx</b>	8-conductor, screw terminals, non-keyed	RJ48X shorting bar (1&4, 2&5)
<b>625A28K-2-xx</b>	8-conductor, screw terminals, keyed	RJ48X shorting bar (1&4, 2&5)

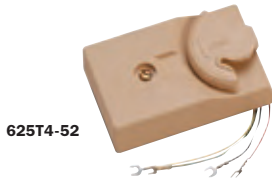
COLORS (-xx): Ivory = (50) Electrical Ivory = (52)

## SWINGER DOOR SURFACE MOUNT



Available in both standard (dry) and *CorroShield* (gelled) versions.

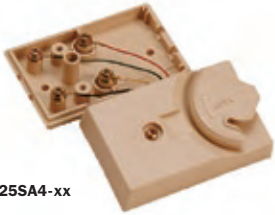
- Thermoplastic cover
- Sealed jack cavity
- Notched, spring-loaded, rotating access cover provides contamination protection (for added protection see *CorroShield* versions)



625T4-52

PART#	DESCRIPTION	WIRING
<b>625T4-52</b>	4-conductor, spade tipped leads, cover only, for use with 020031-50 block	USOC

COLOR:  Electrical Ivory



625SA4-xx

PART#	DESCRIPTION	WIRING
<b>625SA4-50</b>	4-conductor, screw terminals, includes 020031-50 block	USOC

COLOR:  Ivory



625SANS4-xxRC

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>625SA4-xx</b>	4-conductor, screw terminals		USOC
<b>625SA4-xxRC</b>	4-conductor, screw terminals	<i>CorroShield</i>	USOC
<b>625SA6-xx</b>	6-conductor, screw terminals		USOC
<b>625SA6-xxRC</b>	6-conductor, screw terminals	<i>CorroShield</i>	USOC

COLORS (-xx):  Ivory = (50)  Electrical Ivory = (52)  White = (85)

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>625SANS4-xxRC</b>	4-conductor, filled splice connectors	<i>CorroShield</i>	USOC
<b>625SANS6-xxRC</b>	6-conductor, filled splice connectors	<i>CorroShield</i>	USOC

COLORS (-xx):  Ivory = (50)  Electrical Ivory = (52)  White = (85)

## SCREW-ON COVER, FACTORY WIRED



The 635 Series is designed for series connection of alarm reporting devices or ancillary equipment.

- Screw on cover for secure fastening and damage protection
- Blocks are factory wired to a screw terminal board
- Mounting available via double-sided adhesive pad (included) or with wood screws (not included)



635A-48

635B-48

635D-48

PART#	DESCRIPTION	LABEL	WIRING
<b>635A-48</b>	8-conductor, non-keyed	VOICE	RJ31X shorting bar (1&4, 5&8)
<b>635B-48</b>	6/8 conductor duplex, non-keyed	VOICE/VOICE	RJ31X shorting bar (1&4, 5&8)/ USOC
<b>635D-48</b>	6/6 conductor duplex, non-keyed	VOICE/VOICE	USOC/USOC

COLOR:  Gray

## BASEBOARD SURFACE MOUNT



404M-50

- Compact size and low profile to fit narrow baseboards
- Outward facing jack opening for easy access
- Provided with wood screws for baseboard mounting

PART#	DESCRIPTION	WIRING
<b>404M-50</b>	4-conductor, screw terminals	USOC

COLOR:  Ivory

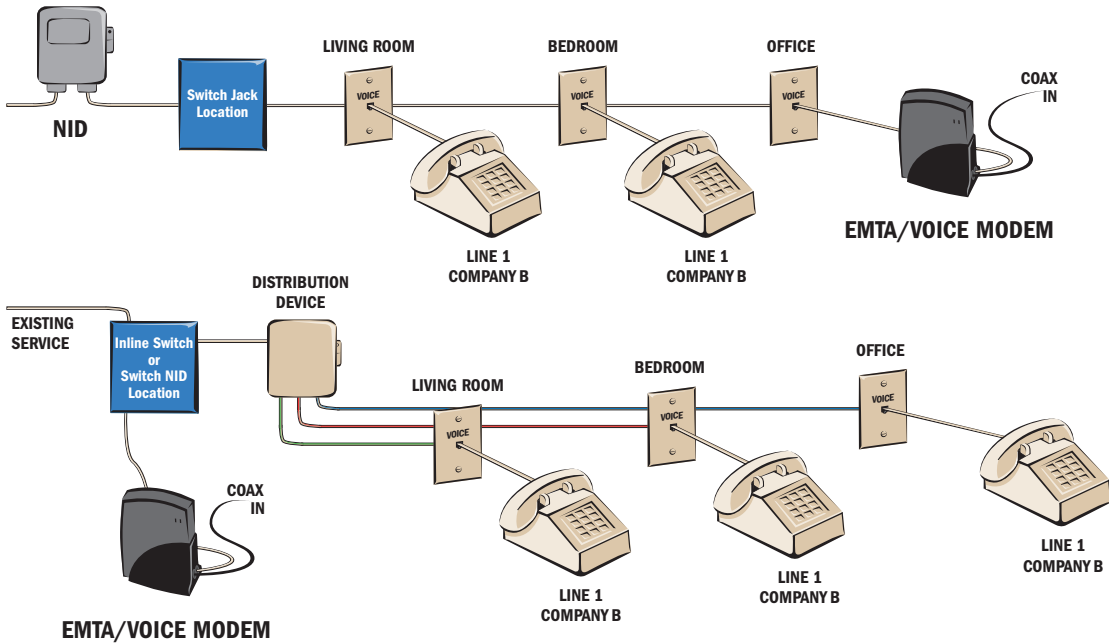


# DUAL PROVIDER SWITCH PRODUCTS

The line of Suttle Dual Provider Switch Products is designed for an alternate service provider to distribute voice service through a home's existing wiring. This customer controlled switch is available in five different variations for maximum versatility.

- Reduces service truck rolls
- Eliminates further jack rewiring
- Customizable name/logo branding available (call for minimum ordering quantities)

## APPLICATIONS



Suttle's Dual Provider Switch NID and Switch Jack products enable competitive digital voice installations without disrupting incumbent equipment or requiring new cabling inside the premises. A range of form factors support the multiple installation scenarios found in both existing homes and new construction.

## FLUSH MOUNT SWITCH JACKS

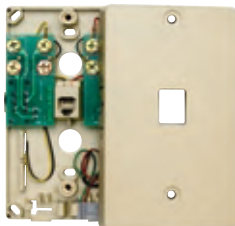


2-1001S-xx

PART#	DESCRIPTION
<b>2-3001S-xx</b>	Dual line simplex switch jack, 4-conductor, screw terminals, filled splice connectors
<b>2-1001S-xx</b>	Duplex switch jack, 4/4-conductor, screw terminals, filled splice connectors

COLORS (-xx):  Electrical Ivory = (52)  White = (85)

## WALL MOUNT SWITCH JACKS



630S2-12-52

PART#	DESCRIPTION
<b>630S1-52</b>	Single line switch jack, 2-conductor, screw terminals, filled splice connectors
<b>630S2-52</b>	Dual line switch jack, 4-conductor, screw terminals, filled splice connectors
<b>630S1-12-52</b>	Single line switch jack, 2-conductor, screw terminals, filled splice connectors, w/ dedicated auxiliary jack
<b>630S2-12-52</b>	Dual line switch jack, 4-conductor, screw terminals, filled splice connectors, w/ dedicated auxiliary jack




COLOR:  Electrical Ivory

## NEW SURFACE MOUNT SWITCH JACKS



625S2SM-xx

PART#	DESCRIPTION
<b>625S2SM-xx</b>	Dual line duplex switched jack, 4/4-conductor, screw terminals, filled splice connectors


COLORS (-xx):  Ivory = (50)  Electrical Ivory = (52)  White = (85)

## INLINE SWITCH



625ILS-52

PART#	DESCRIPTION
<b>625ILS-52</b>	Dual line inline switch, 12 inch flying leads, filled splice connectors


COLOR:  Electrical Ivory

## SWITCH NID



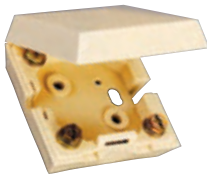
650S2-SB-48

PART#	DESCRIPTION
<b>650S1-48</b>	Single line (indoor/outdoor), screw terminals, grease filled switches
<b>650S2-48</b>	Dual line (indoor/outdoor), screw terminals, grease filled switches
<b>650S1-SB-48</b>	Single line with RJ31X interface (indoor only), screw terminals, grease filled switches
<b>650S2-SB-48</b>	Dual line with RJ31X interface (indoor only), screw terminals, grease filled switches

COLOR:  Gray

# CONNECTING BLOCKS


## 41A CONNECTING BLOCKS



41A-50

- Durable plastic molding
- Hinged snap-lock cover connected to base for easy access

PART#	DESCRIPTION	WIRING
<b>41A-50</b>	4 terminating posts, hinged snap-lock cover	USOC
<b>41B-50</b>	6 terminating posts, hinged snap-lock cover	USOC

COLOR:  Ivory


## 42A CONNECTING BLOCKS



42A-50

- Separate base and cover
- Cover includes captive retaining screw to securely fasten to the assembly
- Plastic base contains molded brass inserts

PART#	DESCRIPTION	WIRING
<b>42A-50</b>	4 terminating posts, includes screw-on cover	USOC
<b>020031-50</b>	4 terminating posts, block only	USOC

COLOR:  Ivory

### 305 TERMINAL BLOCK




305A

The 305 block provides modular access to a wire entry point, or as an unprotected premises network interface.

- Allows multiple station runs from a service entry point
- Flame-retardant thermoplastic
- Captive retaining screw keeps the cover securely fastened

PART#	DESCRIPTION	WIRING
<b>305A</b>	Two line without modular jack	USOC
<b>305C</b>	Two line with modular jack disconnect	USOC

COLOR:  Ivory

### INDOOR NETWORK TERMINATION BLOCKS



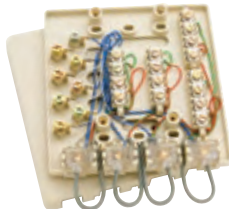
630TNI-2-xxRC

PART#	DESCRIPTION	CORROSHIELD
<b>630TNI-2-xxRC</b>	Wall-mount network termination block, indoor, single-gang, 2 line, test port for each line, 1 auxiliary jack,	<i>CorroShield</i>



631NTB-2-xxRC

PART#	DESCRIPTION	CORROSHIELD
<b>631NTB-2-xxRC</b>	Network termination block, indoor, single-gang, 2 line, test port for each line	<i>CorroShield</i>



634NTB-xxRC

PART#	DESCRIPTION	CORROSHIELD
<b>634NTB-xxRC</b>	Network termination block, indoor, oversized double-gang, 4 line, test port for each line	<i>CorroShield</i>

COLOR:  Electrical Ivory = (52)  White = (85)

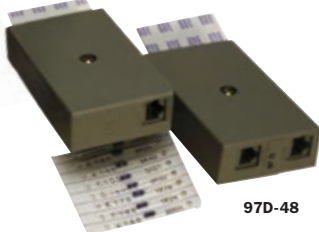
### DATA CONNECTING BLOCKS



Provides access to the telephone network by registered voice and data equipment and allows on-site programming of appropriate loop loss or resistance on the line.

- Factory wired, binding screw terminals on the printed circuit board provide long-term strain resistant connections
- Screw on cover for secure fastening and damage protection
- Double-sided adhesive pad provided for versatile mounting options

97B-48



97D-48

PART#	DESCRIPTION	LABEL	WIRING
<b>97B-48</b>	8-conductor, programmable, keyed. Includes eight programming resistors allowing on-site programming of appropriate loop loss.	DATA	USOC
<b>97D-48</b>	8/6 conductor, duplex, non-keyed/N.A. Provides connection of registered permissive data equipment and registered exclusion key telephone sets.	VOICE/DATA	RJ31X shorting bar (1&4, 5&8)

COLOR:  Gray



## OUTDOOR JACK ASSEMBLIES

### SURFACE MOUNT BOX/JACKS



19316L7-4

- Removable mounting tabs
- Station wire entrance coupling contains neoprene bushing for added protection. Wire entrance available from top, bottom, or either side
- Conduit or pipe entrance can be made by removing the 1/2 inch threaded pipe nipple
- Housing is die cast aluminum with corrosion resistant finish

PART#	DESCRIPTION	CORROSHIELD	WIRING
<b>19316L7-4</b>	4-conductor, screw terminals		USOC
<b>19316L7-4NS-RC</b>	4-conductor, filled splice connectors	<i>CorroShield</i>	USOC
<b>19316L7E-4</b>	4-conductor, screw terminals, trap door		USOC
<b>19316L7-6</b>	6-conductor, screw terminals		USOC
<b>STAR19316</b>	1-port, designed for use w/SpeedStar modular connector (not included)		
<b>19316-L4</b>	Surface mount outdoor box and cover assembly only		

### FLUSH MOUNT OUTDOOR JACKS



16152L8E-4

- Neoprene rubber gasket provides water-resistant seal on masonry, wood, or uneven surfaces
- Faceplate is constructed of aluminum with baked enamel finish

PART#	DESCRIPTION	WIRING
<b>16152L7-4</b>	4-conductor, screw terminals, includes outlet box	USOC
<b>16152L7E-4</b>	4-conductor, screw terminals, trap door, includes outlet box	USOC
<b>16152L7-6</b>	6-conductor, screw terminals, includes outlet box	USOC
<b>16152L8-4</b>	4-conductor, screw terminals, no outlet box	USOC
<b>16152L8E-4</b>	4-conductor, screw terminals, trap door, no outlet box	USOC
<b>STAR16152</b>	1-port, designed for use w/SpeedStar connector (not included)	
<b>16152-L5</b>	Cover assembly only	

## FLOOR JACKS

Suttle's series of simplex and duplex floor jacks allows mounting in standard outlet boxes and tombstone-style outlets for under carpet cabling and mounting in overhead raceway. Color matched 860 faceplates must be ordered separately.

- Screw or 110 Type terminations available
- Simplex or Duplex

### SIMPLEX FLOOR JACKS

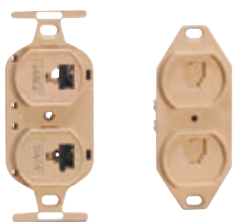


105AF-xx

PART#	DESCRIPTION	WIRING
<b>105AF-xx</b>	8-conductor, 110 IDC terminals, non-keyed	568B

COLORS (-xx):  Ivory = (50)  Electrical Ivory = (52)

### DUPLEX FLOOR JACKS



106BFD-xx

625B3EF450

PART#	DESCRIPTION	LABEL	WIRING
<b>106AFD-xx</b>	8-/8-conductor, 110 IDC terminals, non-keyed	LINE 1/LINE 2	568B
<b>106BFD-xx</b>	8/8-conductor, 110 IDC terminals, non-keyed/keyed	VOICE/DATA	568B
<b>106BFDY-xx</b>	8/8-conductor, 110 IDC terminals, non-keyed/keyed	VOICE/DATA	USOC

COLORS (-xx):  Ivory = (50)  Electrical Ivory = (52)  White = (85)

PART#	DESCRIPTION	WIRING
<b>625B3EF450</b>	4/4-conductor, screw terminals, trap door	USOC

COLOR:  Ivory

# FACEPLATES AND BRACKETS



## TRADITIONAL TELCO FACEPLATES

- Flame-resistant thermoplastic
- All are provided with mounting screws



PART#	DESCRIPTION
<b>16A-xx</b>	Round faceplate for 625F jacks, includes mounting ring
<b>16D-xx</b>	Covers unused pre-wired junction boxes

COLORS (-xx): Ivory = (50) Electrical Ivory = (52) White = (85)



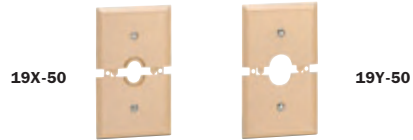
PART#	DESCRIPTION
<b>19A-50</b>	Faceplate for 625F jacks/43A brackets, 2 3/8" mounting center
<b>19C-50</b>	Faceplate for hard-wired telephone sets, 2 3/8" mounting center
<b>19D-50</b>	Cover for unused pre-wire boxes, 2 3/8" mounting center
<b>19E-50</b>	Faceplate for 625F jacks/43C brackets, 1 1/8" mounting center

COLOR: Ivory



PART#	DESCRIPTION
<b>19X-50</b>	Faceplate for 25 pair inside wiring cable, 2 3/8" mounting center
<b>19Y-50</b>	Faceplate for 50, 75, and 100 Pair inside wiring cable, 2 3/8" mounting center

COLOR: Ivory



PART#	DESCRIPTION
<b>19BP1-50</b>	Cover for unused pre-wire boxes, 3 9/32" mounting center

COLOR: Ivory



PART#	DESCRIPTION
<b>65B-50</b>	Faceplate kit includes 43C mounting bracket, 3 sets of mounting screws

COLOR: Ivory



PART#	DESCRIPTION
<b>860A-xx</b>	Duplex, electrical style faceplate for mounting frame (STAR1064) and duplex floor jacks
<b>860B-xx</b>	Simplex faceplate for simplex floor jacks

COLORS (-xx): Ivory = (50) Electrical Ivory = (52) White = (85)

## MOUNTING BRACKETS

- Designed for flush mounting modular or non-modular jacks with Suttle faceplates, rings, and junction boxes
- Heavy gauge steel construction with chromate finish



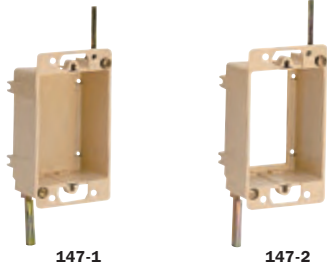
PART#	DESCRIPTION
<b>43A</b>	Mounting bracket for 625F type jacks, 2 3/8" faceplate center
<b>43B</b>	Mounting bracket for 625F and 102 type jacks, 2 3/8" faceplate center




PART#	DESCRIPTION
<b>43C</b>	Mounting bracket for 625F type jacks, 1 7/8" faceplate center
<b>43U</b>	Mounting bracket (optional) for 2-1001, 2-2002 and 2-3001 type jacks, 3 9/32" faceplate center

### MOUNTING BOXES : FLUSH

- Designed for retrofit installation behind finished walls
- Rotating clamp arms



PART#	DESCRIPTION
<b>147-1</b>	Flush mount box, solid back
<b>147-2</b>	Flush mount box, open back for added depth

COLOR:  Ivory




### MOUNTING BOXES : SURFACE





- Double-sided adhesive pad included for versatile mounting options



PART#	DESCRIPTION
<b>625MB-xx</b>	Surface mount box, 1" depth
<b>625MBD-xx</b>	Surface mount box, 1.5" depth

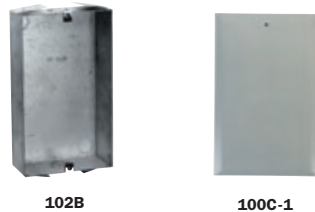
COLORS (-xx):  Ivory = (50)  Electrical Ivory = (52)  White = (85)

PART#	DESCRIPTION
<b>STARMBD-xx</b>	Surface mount box, single gang, 2.25" depth
<b>STARMBDD-xx</b>	Surface mount box, dual gang, 2.25" depth

COLORS (-xx):  Electrical Ivory = (52)  White = (85)


### TELEPHONE SERVICE BOX

- Designed for use as an indoor demarcation housing
- Heavy gauge galvanized sheet metal box (102B) with heavy gauge sheet metal cover with gray baked enamel finish
- Conduit knockouts in the top, bottom, and back of the box
- Nail holes on each side for mounting on studs



PART#	DESCRIPTION	DIMENSIONS
<b>102B</b>	Telephone service box, compatible for 742 & 625TD Network Interface Devices	9.75"H x 5.75"W x 2.5"D

PART#	DESCRIPTION	LABEL
<b>100C-1</b>	Cover for 102B	TELEPHONE


COLOR:  Gray

### 700A HOUSING FOR 25-PAIR CABLES



- Designed for floor or wall-mounting, and may be mounted over a standard outlet box
- Provides a neat closure for mated plug and connector ends of two 25-pair connector cables

PART#	DESCRIPTION
<b>700A-48</b>	700A housing for two 25-pair cables

COLOR:  Gray

# ADAPTERS AND COUPLERS

## COUPLERS




Used as an in-line device for connecting two modular plug-ended line cords, for extending modular circuits without the hassle and expense of hard-wired connecting blocks.

- Flame-resistant thermoplastic




159MC-4

PART#	DESCRIPTION
<b>159MC-4</b>	4-conductor, coupler, reverse wiring
<b>159MC-6</b>	6-conductor, coupler, reverse wiring
COLOR:	 Ivory

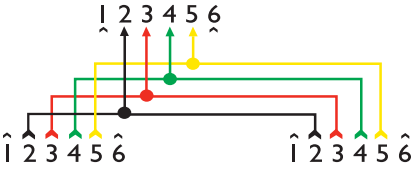


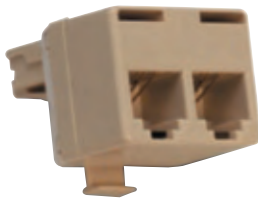
159MC-8A

PART#	DESCRIPTION
<b>159MC-8A</b>	8-conductor, coupler, straight through wiring
<b>159MC-8B</b>	8-conductor, coupler, reverse wiring
COLOR:	 Gray

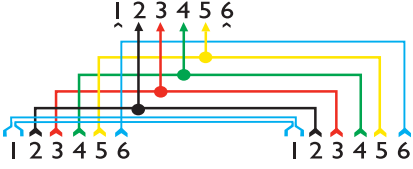
## MODULAR "T" ADAPTERS

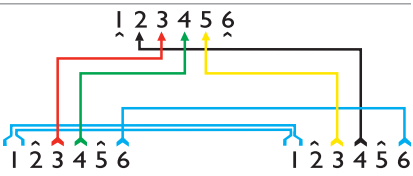


PART#	DESCRIPTION	DIAGRAM
<b>267A4</b>	"2 for 1" adapter - designed for connecting two telephones or equipment to an existing modular jack.	



267 Series

<b>267A6</b>	Similar to 267A4 - 2 additional contacts are wired parallel to each other in the jack but are not connected to the 4 conductor plug.	
--------------	--	---

<b>267B</b>	Used for connecting two telephones and/or ancillary devices to separate outside lines through a single 4 contact jack wired for termination of two lines.	
-------------	---	---

COLOR:  Ivory



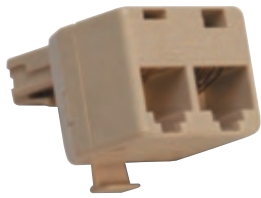


267 Series

PART#	DESCRIPTION	DIAGRAM
<b>267C</b>	Ideal for combining voice and data transmission through a single jack. Voice labeled: PHONE Data labeled: MODEM	

<b>267E</b>	Provides modular connection for 2 - 6 conductor line cords wired to a 6 conductor modular plug.	
-------------	---	--

COLOR: Ivory



468A

PART#	DESCRIPTION	DIAGRAM
<b>468A</b>	Designed to permit quick connection of one telephone and one automatic dialing device to the same line without changing existing installation RJ31X.	

COLOR: Ivory



464

PART#	DESCRIPTION	DIAGRAM
<b>464</b>	Used for operator training purposes where two headsets can be plugged into the 464 for student and instructor use. Designed to plug into a standard console headset jack.	

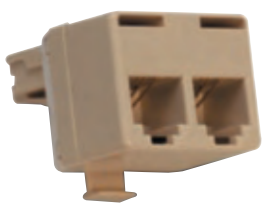
COLOR: Ivory



400 Series

PART#	DESCRIPTION	DIAGRAM
<b>400B</b>	Provides auxiliary power to telephones. Labeled: Phone / Power	

COLOR: Ivory



400 Series

PART#	DESCRIPTION	DIAGRAM
<b>400D</b>	Allows the spare pair from multi-line electronic telephone wiring to provide tip and ring to a single line set Labeled: Pr. 1, 2 & 4 / Pr. 3	

<b>400E</b>	Used to split eight conductor premises wiring into two four conductor modular outputs. Labeled: Pr. 1&2 / Pr. 3&4	
-------------	--	--

<b>400S</b>	Two 8-conductor jacks wired to a single eight conductor plug.	
-------------	---	--

COLOR: Ivory

**MODULAR "Y" ADAPTERS**



One modular jack split to two modular jacks.



450A

PART#	DESCRIPTION	DIAGRAM
<b>450A</b>	Used to split an 8-conductor plug ended cord for output in two 4-conductor jacks. Labeled: Pr. 1&2 / Pr. 3&4	

<b>450B</b>	Allows a 4-conductor plug-ended cord to be output in two 6-position, 2-conductor jacks. Labeled: Line 1 / Line 2	
-------------	---	--

COLOR: Ivory

**TWO-LINE ADAPTERS**



174

PART#	DESCRIPTION	DIAGRAM
<b>174</b>	Consists of a modular jack and two plug-ended 6' line cords. Labeled: L1 / L2	

COLOR: Ivory

## TRIPLEX ADAPTERS



173 Series

PART#	DESCRIPTION	DIAGRAM
<b>173</b>	Provides modular plug-in connections for Line 1, Line 2, Line 1 & 2 respectively. Allows simultaneous connection of single line modular telephone sets to Line 1 and Line 2 while the 2-line circuit may be extended with a 3rd modular jack.	

<b>173A</b>	Allows connection of three single-line phones to a single modular outlet. Labeled: L1 / L2 / L3	
-------------	---	--

COLOR: Ivory

## ALARM INTERFACE ADAPTER



AIC1

Screw terminals to 6-position, 4-conductor plug and jack.

PART#	DESCRIPTION
<b>AIC1</b>	Screw terminals to 6-position, 2-conductor plug and jack

## NON MODULAR TO MODULAR RETROFIT ADAPTER



152MRL-4

Adapts non-modular ring or spade tipped telephone line cords with modular jacks.

PART#	DESCRIPTION
<b>152MRL-4</b>	Screw terminals to 6-position, 4-conductor plug

COLOR: Ivory

## MODULAR TO NON-MODULAR ADAPTER



283M-50

PART#	DESCRIPTION
<b>283M-50</b>	4-prong plug to 4-conductor jack

COLOR: Ivory

## ➔ 25-PAIR CABLING ADAPTER

Cabling adapters permit utilization of existing 25-pair cabling to connect terminal equipment with modular 6- or 8-position plugs. A variety of wiring configurations are available.

- Thermoplastic hood
- 25-Pair, 50-pin connector/plug wired to modular jack

### 4- AND 6-CONDUCTOR, 25-PAIR CABLING ADAPTERS



153AM-xx

#### Wiring Sequence – Color and Pin Number

PART#	W (1)	BK (2)	R (3)	G (4)	Y (5)	BL (6)
<b>153AM-01</b>	-	27	1	26	2	-
<b>153AM-02</b>	-	24	48	23	49	-
<b>153AM-03</b>	-	49	25	50	24	-
<b>153AM-05</b>	-	2	26	1	27	-
<b>153AM-06</b>	25	27	1	26	2	50

COLOR:  Black

### 8 CONDUCTOR, 25-PAIR CABLING ADAPTERS



259A

#### Wiring Sequence – Color and Pin Number

PART#	BL (1)	O (2)	BK (3)	R (4)	G (5)	Y (6)	BR (7)	SL (8)
<b>259A</b>	27	2	28	1	26	3	29	4
<b>259B</b>	31	6	32	5	30	7	33	8

COLOR:  Black

### CONNECTORIZED MULTI-LINE ADAPTERS



Connected to 25-pair cable, these pre-connectorized adapters may be permanently mounted to walls or baseboards with the double-sided adhesive pad (included), wood screws (not included).

- Thermoplastic housing
- Label facilitates jack identification and internal wiring info



2580A

PART#	DESCRIPTION
<b>2580A</b>	Six 8-conductor modular jacks wired to a 25-pair plug
<b>2560A</b>	Eight 6-conductor modular jacks wired to a 25-pair plug
<b>2540A</b>	Twelve 4-conductor modular jacks wired to a 25-pair plug

COLOR:  Black



# NETWORK INTERFACE DEVICES (NID)

## 603NID1



The 603NID1 Indoor Telephone Network Interface Device is designed for the distribution for up to 6 POTS phone lines to up to 11 phone/voice outlets. This product is ideal for voice distribution in the MDU (Multi-Dwelling Unit) and single family home environments.



603NID1-660-58

- 3 Grommeted cable entry/exit points
- Can be mounted on standard single gang NEMA junction boxes
- Separate access for customer and Telco
- RJ31X alarm intercept jack on line 1
- 110 IDC punchdowns to 11 outlets
- RJ11 customer line test ports
- Integrated half ringers for remote testing on each line
- UL60950 tested and certified

PART#	DESCRIPTION
<b>603NID1-660-58</b>	6-pair Network Interface Device
COLOR:	White

Note: additional options may be available upon request

## 305 TERMINAL BLOCK



The 305 block provides modular access to a wire entry point, or as an unprotected premises network interface.

- Allows multiple station runs from a service entry point
- Flame-retardant thermoplastic
- Captive retaining screw keeps the cover securely fastened



305A

PART#	DESCRIPTION	WIRING
<b>305A</b>	Two line without modular jack	USOC
<b>305C</b>	Two line with modular jack disconnect	USOC
COLOR:	Ivory	

## JUNCTION BOX



Allows up to four hardwired, additional extensions and/or accessories to be added to an existing telephone system.

- Entrance bridge provides a convenient disconnect point for premises wiring systems
- Color-coded strip facilitates wiring
- Break-away entrance tabs for incoming and extension wiring



742A-xx

PART#	DESCRIPTION	WIRING
<b>742A-xx</b>	4-conductor, screw terminals, with modular cord	USOC
<b>742B-50</b>	4-conductor, screw terminals, without modular cord	USOC
COLORS (-xx):	Ivory = (50)  Electrical Ivory = (52)	

**625TD**




- Provides remote testing
- Installs between the leased telephone service and customer owned premises wiring
- Designed for mounting on baseboards or within the 102B telephone service box
- Cover label provides instructions for customer connection and testing
- Swinger door with enclosed base, reduces contamination and corrosion
- Equipped with a line terminating unit (half ringer)



625TD1-50

PART#	DESCRIPTION	WIRING
<b>625TD1-50</b>	4-conductor, screw terminals, single line terminating unit	USOC
<b>625TD2-50</b>	4-conductor, screw terminals, two line terminating unit	USOC

COLOR:  Ivory

**DUAL PROVIDER SWITCH NID**




- Reduces service truck rolls
- Eliminates further rewiring



650S2-SB-48

PART#	DESCRIPTION
<b>650S1-48</b>	Single line (indoor/outdoor), screw terminals, grease filled switches
<b>650S2-48</b>	Dual line (indoor/outdoor), screw terminals, grease filled switches
<b>650S1-SB-48</b>	Single line with RJ31X interface (indoor only), screw terminals, grease filled switches
<b>650S2-SB-48</b>	Dual line with RJ31X interface (indoor only), screw terminals, grease filled switches

COLOR:  Gray

# MISCELLANEOUS

## RADIO INTERFERENCE FILTER





Used in place of a surface mounted jack assembly to eliminate AM/FM and CB radio broadcast interference in telephone sets caused by nearby transmitting antennae.



1542AM-xx

PART#	DESCRIPTION
<b>1542A-50</b>	Non-modular, screw terminals
<b>1542AM-xx</b>	Modular filter, 4-conductor, 6-position, screw terminals

COLORS (-xx):  Gray = (48)  Ivory = (50)

## MODULAR CORDAGE

The silver-satin outer jacket encloses coated, stranded copper of 26 gauge flat cable. The 266 and 266-6 modular plugs can easily be installed with use of the 166 and 166-6 modular crimping tools (See crimping tools on page 35).



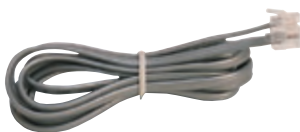
466S

PART#	DESCRIPTION	LENGTH
<b>466S</b>	4-conductor	500-ft.
<b>366S</b>	4-conductor	1000-ft.
<b>466S-6</b>	6-conductor	500-ft.
<b>366S-6</b>	6-conductor	1000-ft.
<b>366S-8</b>	8-conductor	1000-ft.

## MODULAR LINE CORDS



All-purpose, flat, silver-satin line cords with plugs on both ends.



7200-07-W



7200-07-WRC1

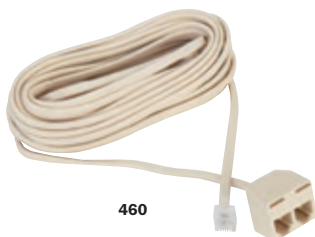
PART#	DESCRIPTION	WIRING	LENGTH
<b>453</b>	4-conductor, interface cord	through	8-inch
<b>454</b>	4-conductor	reverse	5-inch
<b>7200-07-W</b>	4-conductor	reverse	7-ft.
<b>7200-14-W</b>	4-conductor	reverse	14-ft.
<b>7200-25-W</b>	4-conductor	reverse	25-ft.
<b>1200-07-W</b>	6-conductor	reverse	7-ft.
<b>1200-14-W</b>	6-conductor	reverse	14-ft.
<b>1200-25-W</b>	6-conductor	reverse	25-ft.

PART#	DESCRIPTION	WIRING	CORROSHIELD	LENGTH
<b>7200-07-WRC1</b>	4-conductor	reverse	CorroShield plugs	7-ft.

## MODULAR EXTENSION CORDS



All modular extension cords consist of a 4-conductor, 6-position modular plug on one end, and a simplex or duplex 4-conductor jack on the other end.

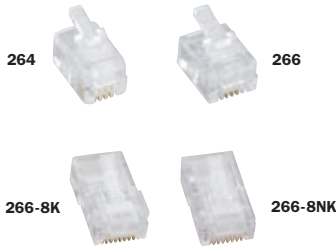


460

PART#	DESCRIPTION	LENGTH
<b>459</b>	Modular extension cord plug and simplex jack	25-ft.
<b>460</b>	Modular extension cord plug and duplex jack	25-ft.

## MODULAR PLUGS

Replace, repair, or add modular plugs to stranded or solid inside wiring cables. Plugs meet FCC part 68 requirements.



PART#	DESCRIPTION
<b>264</b>	4-position, 4-conductor plug, for handset cords
<b>266</b>	6-position, 4-conductor plug, for stranded wire
<b>266-4S</b>	6-position, 4-conductor plug, for solid wire only
<b>266-6</b>	6-position, 6-conductor plug, for stranded wire
<b>266-8K</b>	8-position, 8-conductor, keyed plug, for stranded wire
<b>266-8NK</b>	8-position, 8-conductor, non-keyed plug, for stranded wire

## SIGNALING DEVICES

The **15 Series** off-hook indicator lights illuminate when the telephone set is off the hook only. *These are not equipped with switchboard lamps, which must be ordered separately (below).*



PART#	DESCRIPTION	COLOR	REN
<b>15D-xx</b>	Off-hook indicator without lamp	White	0
<b>15E-xx</b>	Off-hook indicator without lamp	Ruby	0
<b>15G-xx</b>	Off-hook indicator without lamp	Amber	0
<b>15H-xx</b>	Off-hook indicator without lamp	Blue	0

COLOR:  Black = (03)  Gray = (48)

PART#	DESCRIPTION
<b>12A1</b>	12V DC switchboard lamp
<b>24E1</b>	24V DC switchboard lamp
<b>48C</b>	48V DC switchboard lamp



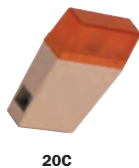
The **21 Series** ringing indicator lights illuminate when the telephone rings only. *These are equipped with neon lamps. Replacement lamps may be ordered separately (below).*



PART#	DESCRIPTION	COLOR	REN
<b>21B-xx</b>	Ringling indicator with lamp	Clear	0.4B
<b>21C-xx</b>	Ringling indicator with lamp	Amber	0.4B
<b>21H-xx</b>	Ringling indicator with lamp	Blue	0.4B

COLOR:  Black = (03)  Gray = (48)

PART#	DESCRIPTION
<b>070230-00</b>	Neon replacement lamp



PART#	DESCRIPTION	COLOR	REN	LISTED
<b>20C</b>	Ring indicator - modular	Amber	0.4B	



PART#	DESCRIPTION	RING VOLTS	SOUND	REN
<b>260</b>	Electronic ringer	90 VAC - 120 VAC	95dB	0.8B





400AQ



171

PART#	DESCRIPTION	RING VOLTS	SOUND	REN	LISTED
<b>400AQ</b>	Chime ringer				
	> Chime mode	45 VAC - 130 VAC	80dB	1.7B	cULus
	> Ring mode	45 VAC - 130 VAC	100dB	1.0B	

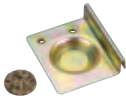
PART#	DESCRIPTION	RING VOLTS	SOUND	REN	LISTED
<b>171</b>	Loud ringer	45 VAC - 130 VAC	90dB	1.0B	cULus

## PUSH BUTTON AND MOUNTING BRACKET

For use in intercom systems or other signaling needs. It operates on AC and DC current not to exceed 120 volts.



554-xx



77A

PART#	DESCRIPTION
<b>554-xx</b>	Push button; molded plastic with clear label window

COLORS (-xx):  Ash = (44)  Ivory = (50)

PART#	DESCRIPTION
<b>77A</b>	Mounting bracket, heavy gauge steel construction with yellow chromate finish; bottom covered with cork for protection of desks or other finishes; the bracket clips onto the telephone instrument base (side flange) for operator convenience

## TOOLS

A variety of tools are available for installations and terminations.



166



797A



798



814B

PART#	DESCRIPTION
<b>166</b>	Modular crimping tool for 4-contact plugs on 4-conductor wire includes handset cord adapter
<b>166-6</b>	Modular crimping tool for 6-contact plugs on 6-conductor wire

PART#	DESCRIPTION
<b>797A</b>	Quick-connect tool for 630 jacks. Allows quick connections without the added step of stripping the wires

PART#	DESCRIPTION
<b>798</b>	110 IDC connect tool; for use with 22-26 AWG PVC and PIC cables

PART#	DESCRIPTION
<b>814B</b>	Impact tool; for use with 22-26 AWG station wire; spring-loaded for consistent connections; blades provided for use with 110 IDC and 66-clip termination



# SOHO ACCESS™

## ➔ SOHO ACCESS CONTENT OVERVIEW

Our full line of enclosures and modules deliver a superior ability to not only provide reliable distribution for today, but into the future as well. This innovative and rugged line of products facilitates effortless moves, adds, and changes while maintaining a simple and attractive design.

### p40 ENCLOSURES

*The SOHO Access™ Enclosure is perfect for both residential and commercial applications. Available in 4 sizes and with a variety of cover choices, this installation friendly enclosure can fulfill all of your voice, data, video, and audio connectivity needs.*

### p44 VOICE MODULES

*Suttle's SOHO Access™ Voice Modules are an ideal way to distribute phone service throughout a premise. We provide many unique products such as our Dual and Multi-Provider Modules which are designed for maximum flexibility with little or no rewiring.*

### p47 DATA MODULES

*Our Data Modules are perfect for a home or small office network and provide centralized distribution to make networking easy.*

### p48 VIDEO MODULES

*With our video Amplifiers, Splitters, and Patch Panel, Suttle has the tools to give you the richest television experience possible no matter what the source.*

### p50 DISTRIBUTED AUDIO

*Listen to music throughout the home with Suttle's line of A-BUS™ audio products. It distributes audio signal over CAT5 cabling (or better) for less wiring and a simple, user friendly system. This system sounds great with our new line of SONIK™ speakers, available in both in-wall and in-ceiling configurations.*

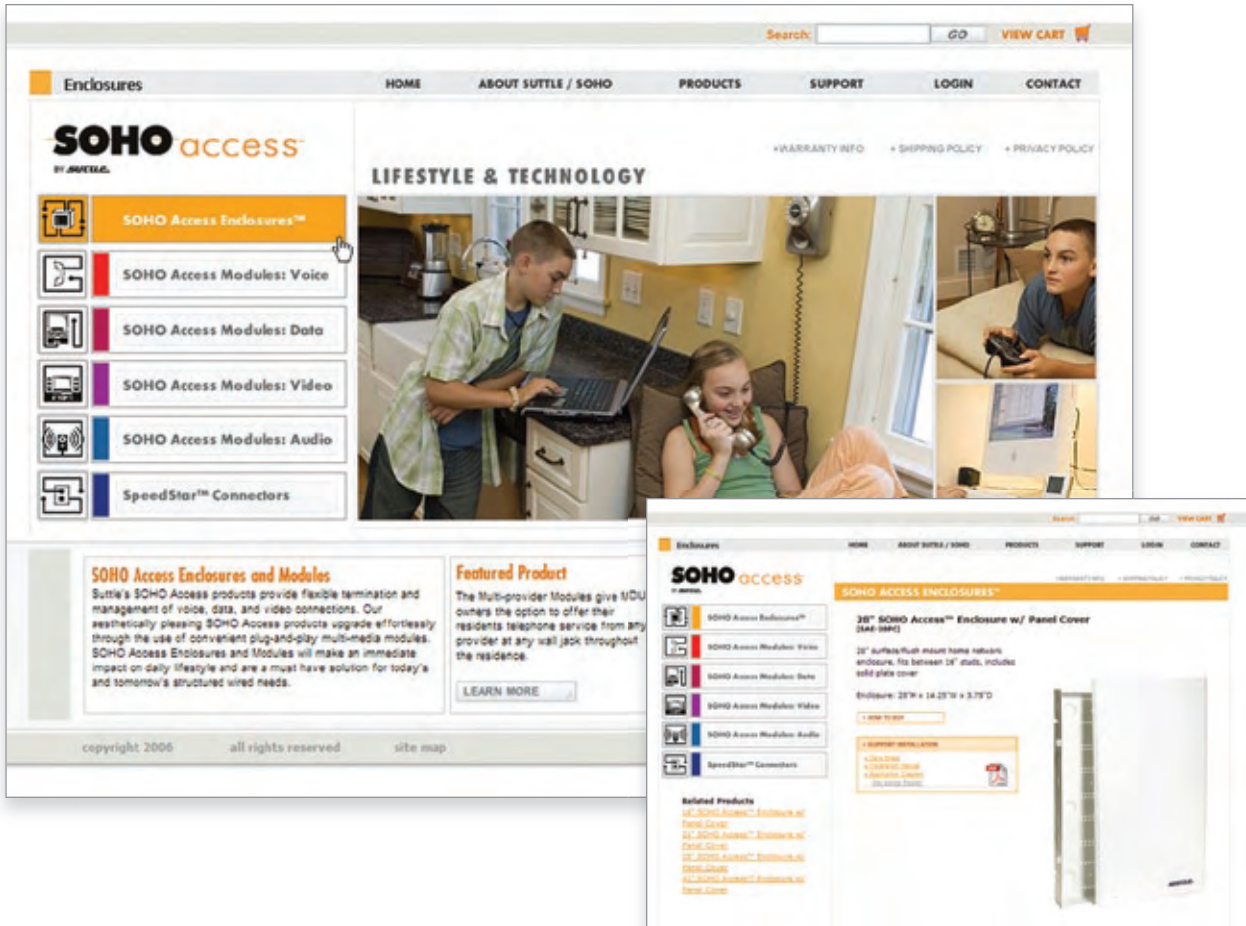
### p52 MODULE ACCESSORIES

*If you need to replace a module part, mount existing hardware, or add an active device Suttle has the accessories you need to get it done.*



## ➔ SUTTLE'S SOHO ACCESS™ WEBSITE

Suttle's SOHO Access™ website is a comprehensive listing of the entire SOHO Access™ and relevant SpeedStar™ product lines and features dynamically updated product information, spec sheets, wiring diagrams, news, and much more.



## ➔ SOHO ACCESS™ ONLINE TRAINING

Also hosted on this site is the online version of Suttle's 25-Year Warranty Training and Certification Program. This new functionality enables users to access on-line training and industry information allowing them to perform research and to become Suttle Certified Installers 24 hours a day, 365 days a year.

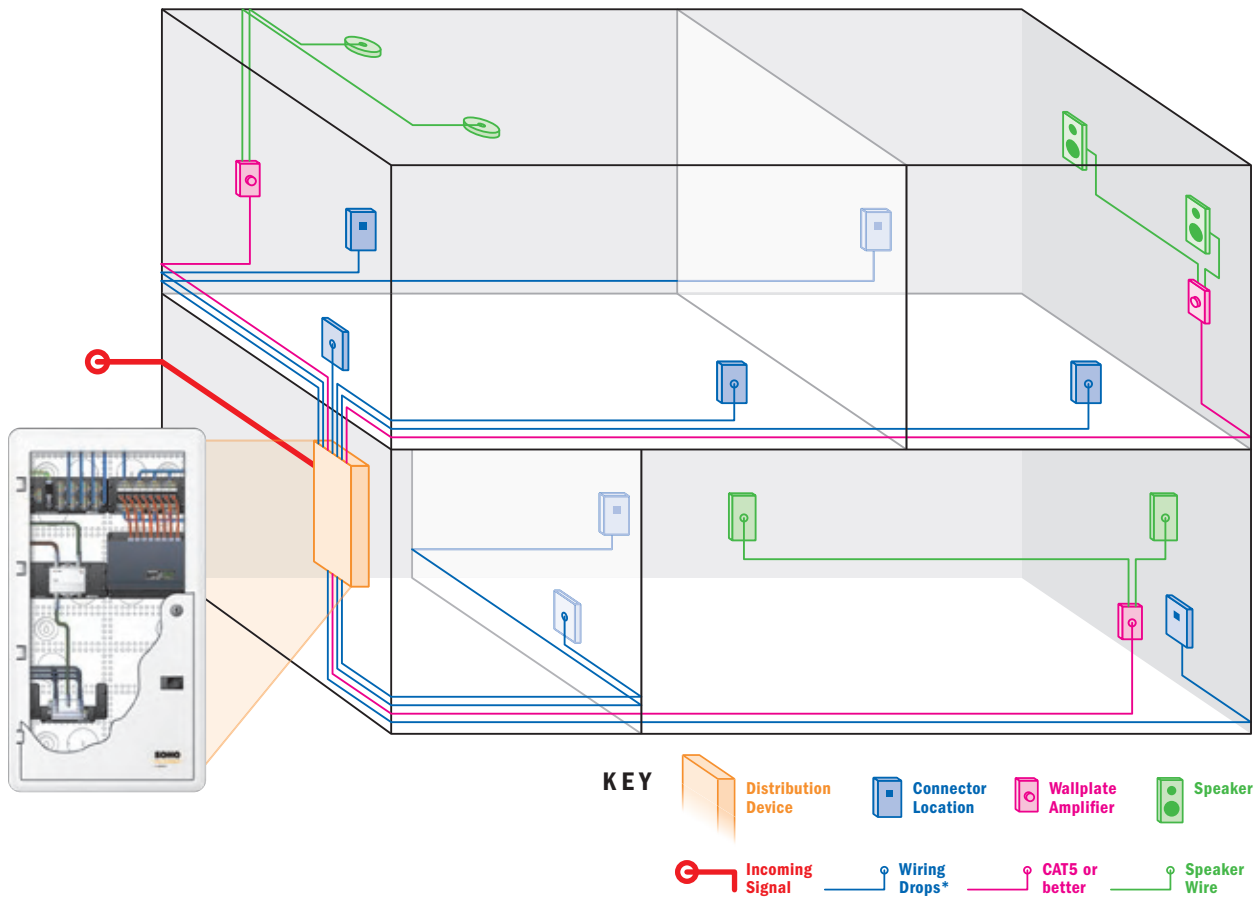


The SOHO Access™ Online Training Program can be found at [www.suttlesoho.com](http://www.suttlesoho.com) under the "Support" section.



# DISTRIBUTION DEVICE

## BASIC STRUCTURED WIRING



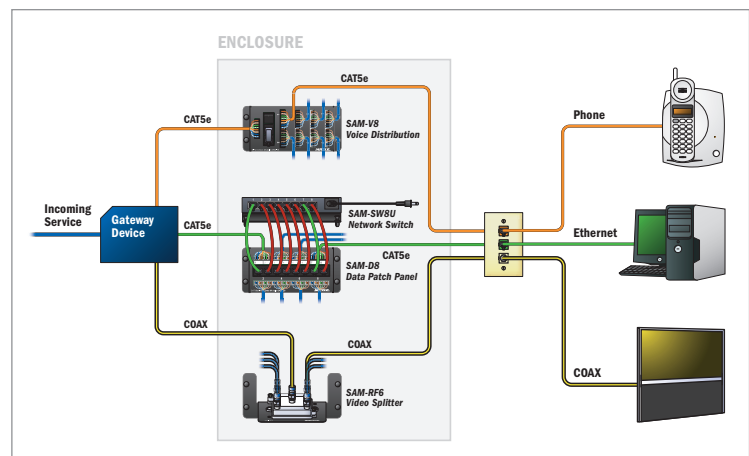
\*Refers to a drop of 2 CAT5e (or better), 2 RG6, and 1 fiber (optional) as defined in the ANSI/TIA-570-B standards.

## WHAT IS STRUCTURED WIRING?

Structured wiring is a standards based system of cabling that distributes communication services (including voice, data, video, and audio) from a centrally located distribution device over a network of built-in cables throughout a home or office.

## WHY INSTALL IT?

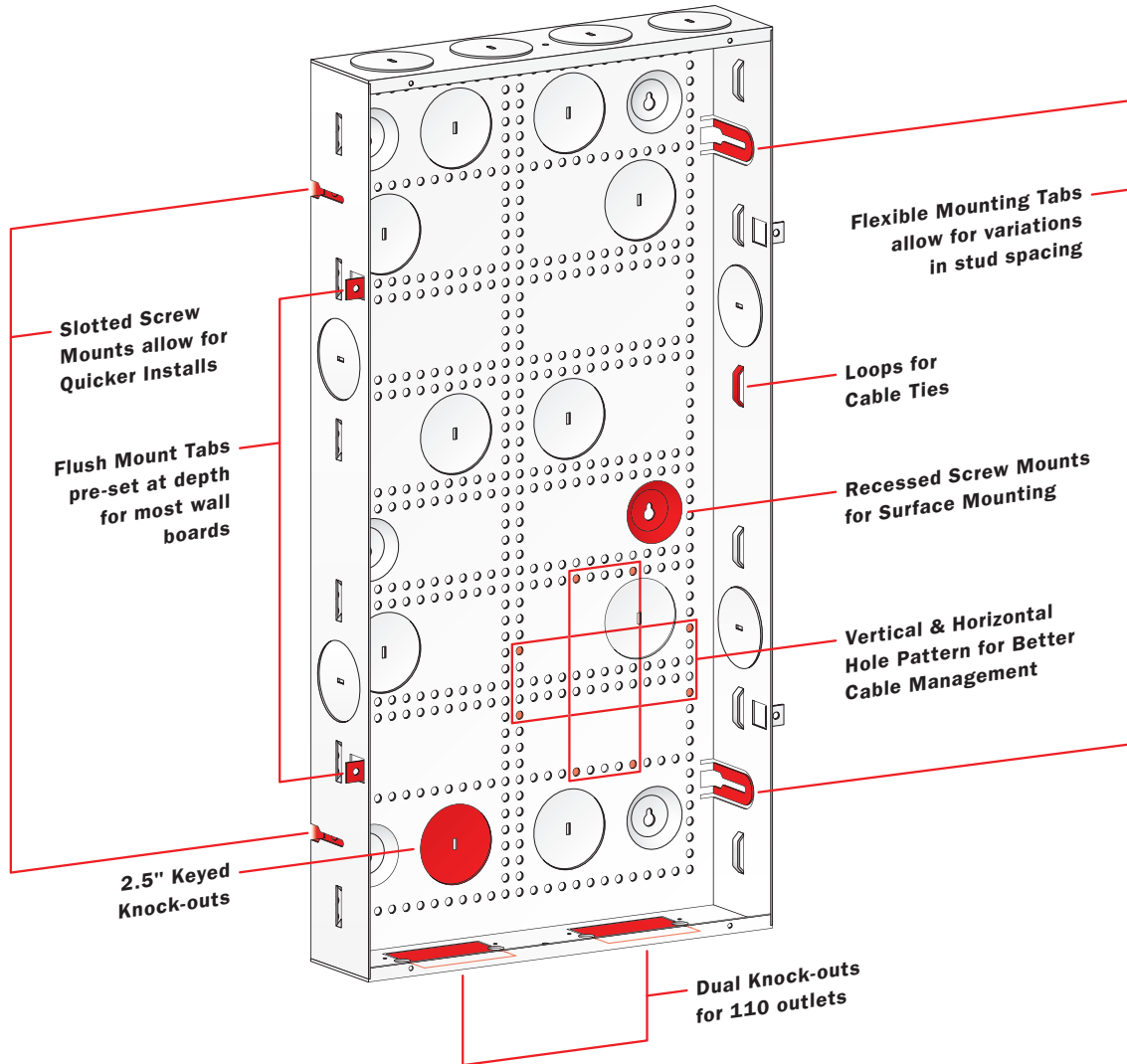
Structured wiring systems simplify and enhance a homebuyer's lifestyle and create long-term value for the home. Today's entertainment and lifestyle products are developing at a tremendous pace. These systems often include computers, phones, gaming devices, lighting systems, appliances, security cameras, set-top boxes, and health monitoring systems. In addition to products, evolving communication and entertainment service options from Service Providers continue to provide more choices which often drive greater challenges for the "in home" communication network. Suttle's line of SOHO Access™ products are an effective way to integrate and utilize these changing products and services to enhance the home owner's lifestyle today and in the future.



The distribution device is used for connection of access providers to the residence and to facilitate moves, adds, and changes. This is a typical wiring applications found in a residence to organize and efficiently distribute voice, data, and video wire a home.

# ENCLOSURES

SOHO  
ACCESS™

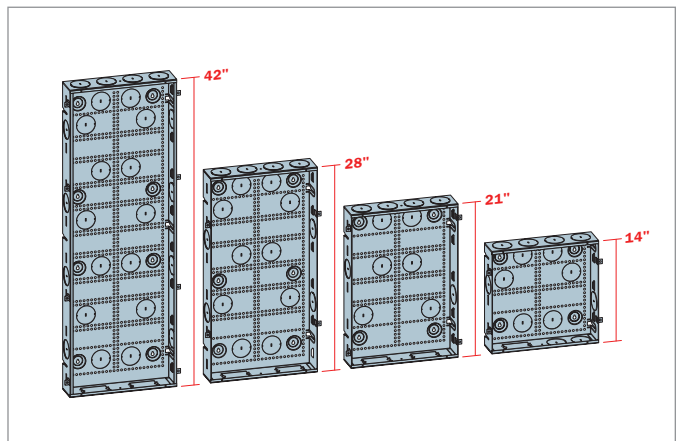


The SOHO Access™ Enclosure provides a fast, flexible, and clean distribution management solution for voice, data, video, and audio connections.

Available in 14", 21", 28", and 42" heights these feature-rich, ruggedized enclosures are designed to be either flush mounted between sixteen inch centered studs or surface mounted via recessed mounting holes.

The SOHO Access™ Enclosure also offers numerous 2.5" cable entry knockouts, a vertical and horizontal mounting hole pattern, and multiple cable tie attachment points offering better, cleaner cable management.

Each enclosure accommodates a variety of cover options including the solid Panel Cover, the Door Cover with security lock knock-out, the Dual Door Cover for locking service provider assets, and the Stylized Cover with smoked plexiglass window and added depth.



SOHO Access™ Enclosures are available in 14", 21", 28", and 42" heights.



## ENCLOSURES WITH DOOR COVER



SAE-28DC

PART#	DESCRIPTION
<b>SAE-14DC</b>	14" surface/flush mount home network enclosure, fits between 16" studs, includes door cover
<b>SAE-21DC</b>	21" surface/flush mount home network enclosure, fits between 16" studs, includes door cover
<b>SAE-28DC</b>	28" surface/flush mount home network enclosure, fits between 16" studs, includes door cover
<b>SAE-42DC</b>	42" surface/flush mount home network enclosure, fits between 16" studs, includes door cover

### ➔ COMING SOON

**SAE-42DDC-1428** 42" network enclosure with 14"/28" dual door cover, includes SAM-EMP partition module (see pg 43)

### ➔ COMING SOON

**SAE-42DDC-2121** 42" network enclosure with 21"/21" dual door cover, includes SAM-EMP partition module (see pg 43)

ENCLOSURE DIMENSIONS: 14", 21", 28", 42"H x 14.25"W x 3.75"D



## ENCLOSURES WITH PANEL COVER



SAE-28PC

PART#	DESCRIPTION
<b>SAE-14PC</b>	14" surface/flush mount home network enclosure, fits between 16" studs, includes panel cover
<b>SAE-21PC</b>	21" surface/flush mount home network enclosure, fits between 16" studs, includes panel cover
<b>SAE-28PC</b>	28" surface/flush mount home network enclosure, fits between 16" studs, includes panel cover
<b>SAE-42PC</b>	42" surface/flush mount home network enclosure, fits between 16" studs, includes panel cover

ENCLOSURE DIMENSIONS: 14", 21", 28", 42"H x 14.25"W x 3.75"D

## ➔ COMING SOON ENCLOSURES WITH STYLIZED COVER

Available for 28" and 42" enclosures, the Stylized Cover consists of a sturdy metal frame that holds an attractively, smoked plexiglass window for diagnosing (and admiring) network equipment.



SAE-28SC

- 2.5" of added depth
- Vents to dissipate heat
- Security lock included standard
- Attractive smoked plexiglass window

PART#	DESCRIPTION
<b>SAE-28SC</b>	28" surface/flush mount home network enclosure, fits between 16" studs, includes stylized door cover with smoked glass
<b>SAE-42SC</b>	42" surface/flush mount home network enclosure, fits between 16" studs, includes stylized door cover with smoked glass

ENCLOSURE DIMENSIONS: 28", 42"H x 14.25"W x 3.75"D

## ENCLOSURES



SAE-28

PART#	DESCRIPTION
<b>SAE-14</b>	14" surface/flush mount home network enclosure, fits between 16" studs, no cover
<b>SAE-21</b>	21" surface/flush mount home network enclosure, fits between 16" studs, no cover
<b>SAE-28</b>	28" surface/flush mount home network enclosure, fits between 16" studs, no cover
<b>SAE-42</b>	42" surface/flush mount home network enclosure, fits between 16" studs, no cover
ENCLOSURE DIMENSIONS: 14", 21", 28", 42"H x 14.25"W x 3.75"D	

## DOOR COVERS



SADC-28

PART#	DESCRIPTION
<b>SADC-14</b>	Door cover for 14" network enclosure, no enclosure
<b>SADC-21</b>	Door cover for 21" network enclosure, no enclosure
<b>SADC-28</b>	Door cover for 28" network enclosure, no enclosure
<b>SADC-42</b>	Door cover for 42" network enclosure, no enclosure

## PANEL COVERS



SAPC-28

PART#	DESCRIPTION
<b>SAPC-14</b>	Panel cover for 14" network enclosure, no enclosure
<b>SAPC-21</b>	Panel cover for 21" network enclosure, no enclosure
<b>SAPC-28</b>	Panel cover for 28" network enclosure, no enclosure
<b>SAPC-42</b>	Panel cover for 42" network enclosure, no enclosure

## COMING SOON STYLIZED COVERS



SASC-28

- 2.5" of added depth
- Vents to dissipate heat
- Security lock included standard
- Attractive smoked plexiglass window

PART#	DESCRIPTION
<b>SASC-28</b>	Stylized door cover with smoked glass for 28" network enclosure, no enclosure
<b>SASC-42</b>	Stylized door cover with smoked glass for 42" network enclosure, no enclosure

**COMING SOON DUAL DOOR COVERS**



SADD-1428

SADD-2121

The dual door covers for the 42" SOHO Access™ Enclosure are designed to secure the bottom portion of the enclosure while allowing the top portion to be accessed freely.

PART#	DESCRIPTION
<b>SADD-1428</b>	14" / 28" dual door cover for 42" network enclosure, no enclosure

<b>SADD-2121</b>	21" / 21" dual door cover for 42" network enclosure, no enclosure <i>*Requires SAM-EPM to separate top and bottom sections.</i>
------------------	--



SAM-EPM

PART#	DESCRIPTION
<b>SAM-EPM</b>	Enclosure partition module for use with dual door covers

**POWER**



SAE-ACS

SAE-ACN

PART#	DESCRIPTION
<b>SAE-ACS</b>	Surge protected AC outlet kit, includes NEMA 5-15R 15A, 125V surge suppression receptacle, faceplate and J-Box, white

<b>SAE-ACN</b>	Non-surge protected AC outlet kit, includes 15A, 125V receptacle, faceplate and J-Box, white
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SAM-PS3

**COMING SOON**

<b>SAM-PS3</b>	3-outlet power extension module <i>*For use with SAM-EPM</i>
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**ACCESSORIES**



SAE-GMT8



SAE-LOCK

PART#	DESCRIPTION
<b>SAE-GMT8</b>	Enclosure grommet kit, 8 additional 2.5" rubber grommets for cable entry/exit holes

<b>SAE-LOCK</b>	Enclosure door security lock for enclosure door covers
-----------------	--



SAM-FAN

**COMING SOON**

<b>SAM-FAN</b>	Fan module to reduce heat inside the enclosure, integrated power adapter
----------------	--



# VOICE MODULES

## VOICE DISTRIBUTION MODULES



SAM-V8

PART#	DESCRIPTION
<b>SAM-V8</b>	4-line input, 8 output, 110 IDC blocks, RJ31X alarm jack, 2 RJ45 test jacks (568A)



SAM-V10

PART#	DESCRIPTION
<b>SAM-V10</b>	4-line input, 10 output, 110 IDC blocks, RJ31X alarm jack, 1 RJ45 test jack (568A)



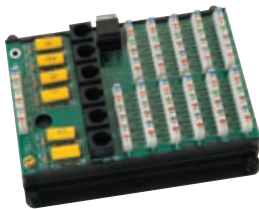
SAM-VE

PART#	DESCRIPTION
<b>SAM-VE</b>	4-line input (110 IDC), 22 output (RJ45), 10 outs pass all 4 lines, 12 outs pass 2 lines in varying combinations, RJ31X alarm jack, 2 RJ45 test jacks (568A)



SAM-VX10

PART#	DESCRIPTION
<b>SAM-VX10</b>	Expansion module bridges 4 lines from SAM-V8, SAM-V10, or SAM-VE to an additional 10 outputs (110 IDC blocks), expandable to additional SAM-VX10s, includes 2 RJ45 patch cords for bridging, 568A wiring



SAM-603

PART#	DESCRIPTION
<b>SAM-603</b>	6-line input, 11 output, 110 IDC blocks, RJ31X alarm jack, 6 test jacks, 6 half-ringers for remote testing

## DUAL PROVIDER MODULES



SAM-DP9

PART#	DESCRIPTION
<b>SAM-DP9</b>	2-line input (110 IDC), 9 output (110 IDC), RJ31X alarm jack, 2 RJ45 test jacks (568A), allows connection for two service providers, controlled by a switch for each line

## NEW MULTI-PROVIDER MODULES



The new Multi-Provider solution delivers a new level of flexibility and functionality for today's multifamily property owners and managers. These modules facilitate a centralized distribution of phone services in each unit that is simple to manage with no expensive rewiring when residents change their phone service provider. Each module can support a basic offering from a single telephone service provider, or a more comprehensive offering of multiple lines and multiple providers.



SAM-MP4

PART#	DESCRIPTION
<b>SAM-MP4</b>	4-line input to 6 outputs (110 IDC), security interface jack, 2 RJ45 test jacks (568A), allows switching between up to 4 alternate voice providers (RJ11)



SAM-MP6

<b>SAM-MP6</b>	6-line input to 8 outputs (110 IDC) in various combinations, security interface jack, 1 RJ45 test jack (568A), allows switching between up to 6 alternate voice providers (RJ11)
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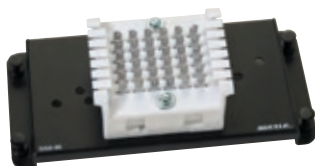


SAM-MPP

<b>SAM-MPP</b>	Patch module, 8 inputs (RJ11 or 110 IDC) to 8 outputs (RJ11)
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\* For use with SAM-MP4 and SAM-MP6

## 66 BLOCK MODULES



SAM-66

PART#	DESCRIPTION
<b>SAM-66</b>	3-pair 66 connecting block via 6-clip terminals
<b>SAM-66-3</b>	6-pair 66 connecting block via 3-clip terminals

## VOICE / DATA COMBINATION MODULE



SAM-V6D1

PART#	DESCRIPTION
<b>SAM-V6D1</b>	VOICE: 4-line input (110 IDC), 6 output (RJ45), 568B wiring DATA: 1 CAT5e, RJ45 to 110 IDC, 568B wiring

## NEW VOICE / VIDEO COMBINATION MODULES

The new Voice / Video Combination Module is designed to minimize the amount of space required to network a home's voice and video systems. These modules are available with any of the current 1GHz or 3GHz splitters offered by Suttle or with no splitter and just mounting hardware.



SAM-VV4

PART#	DESCRIPTION	UL US
<b>SAM-BV</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: No splitter	PENDING
<b>SAM-VV4</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: 1x4 RF splitter, F connector, 1GHz, SCTE compliant	
<b>SAM-VV6</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: 1x6 RF splitter, F connector, 1GHz, SCTE compliant	
<b>SAM-VV8</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: 1x8 RF splitter, F connector, 1GHz, SCTE compliant	
<b>SAM-VVH2</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: 1x2 RF splitter, F connector, 3GHz, SCTE compliant	
<b>SAM-VVH3</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: 1x3 RF splitter, F connector, 3GHz, SCTE compliant	
<b>SAM-VVH4</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: 1x4 RF splitter, F connector, 3GHz, SCTE compliant	
<b>SAM-VVH6</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: 1x6 RF splitter, F connector, 3GHz, SCTE compliant	
<b>SAM-VVH8</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: 1x8 RF splitter, F connector, 3GHz, SCTE compliant	

## NEW TELEPHONY ADAPTER MODULES



SAM-VTC

These modules interconnect a PBX system of a small business with an EMTA and accommodate 8 (SAM-VTC) or 12 (SAM-VC12) lines of service.

PART#	DESCRIPTION
<b>SAM-VTC</b>	8-line input (RJ14 or 110 IDC) to 8-line output (RJ11), 4 test ports (RJ11)



SAM-VC12

PART#	DESCRIPTION	UL US
<b>SAM-VC12</b>	12-line input (RJ21X 25-pair female connector) to 12-line output (RJ11 or 110 IDC)	PENDING

## DSL FILTER MODULE



SAM-DSL

- Filter all voice jacks with one central filter
- Easy to install, just patches into the existing phone distribution module (to filter line 1)
- 110 IDC input and output accommodates filtering of any line
- RJ45 or 110 IDC unfiltered output for modem

PART#	DESCRIPTION
<b>SAM-DSL</b>	DSL module filters voice signal from a voice module to eliminate the need for filtering at jack locations

# DATA MODULES

## PATCH MODULES



SAM-D8

PART#	DESCRIPTION
<b>SAM-D8</b>	8-port CAT5e data/voice networking module, RJ45 to 110 IDC blocks, 568A wiring



SAM-SP8

<b>SAM-SP8</b>	8-port universal patch panel, utilizes all standard SpeedStar™ connectors (sold separately)
----------------	---

## NETWORK SWITCH MODULES

The SOHO Access™ 10/100 Ethernet Switch Modules provide full wire-speed, Fast Ethernet switching to ensure high-performance and low-cost connectivity. These switches feature a store-and-forward architecture along with Auto MDI/MDIX support to allow the user to connect any ethernet device with standard, straight or crossover ethernet cables making it a simple plug-and-play device. The 8-port switch (SAM-SW8U) is also equipped with an internal power supply to eliminate external power adapters.



SAM-SW8U

PART#	DESCRIPTION
<b>SAM-SW8U</b>	8-port 10/100 switch, integrated power adapter, auto-sensing ports, includes eight 12" patch cords



SAM-SW5U

<b>SAM-SW5U</b>	5-port 10/100 switch, auto-sensing ports, includes five 12" patch cords and external DC power adapter
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## NETWORK ROUTER MODULE



SAM-RTR4

PART#	DESCRIPTION
<b>SAM-RTR4</b>	4-port 10/100 router, firewall protection, includes five 12" patch cords and external DC power adapter

# VIDEO MODULES

## VIDEO SPLITTER MODULES

Suttle's 1GHz and 3GHz video splitter modules provide high quality and reliable video distribution with industry approved splitters that meet ANSI/SCTE standards. The angled mounting brackets maximize enclosure space, minimize cable strain, and facilitate better cable management and ease of installation.



SAM-RF3



SAM-RF8



SAM-RFH8


PART#	DESCRIPTION	CONNECTIONS	FREQUENCY	STANDARD	BRACKET
<b>SAM-RF3</b>	1x3 RF splitter	F connector	1GHz	SCTE compliant	flat
<b>SAM-RF4</b>	1x4 RF splitter	F connector	1GHz	SCTE compliant	angled
<b>SAM-RF6</b>	1x6 RF splitter	F connector	1GHz	SCTE compliant	angled
<b>SAM-RF8</b>	1x8 RF splitter	F connector	1GHz	SCTE compliant	angled
<b>→ NEW</b>					
<b>SAM-RFH2</b>	1x2 RF splitter	F connector	3GHz	SCTE compliant	angled
<b>→ NEW</b>					
<b>SAM-RFH3</b>	1x3 RF splitter	F connector	3GHz	SCTE compliant	angled
<b>→ NEW</b>					
<b>SAM-RFH4</b>	1x4 RF splitter	F connector	3GHz	SCTE compliant	angled
<b>→ NEW</b>					
<b>SAM-RFH6</b>	1x6 RF splitter	F connector	3GHz	SCTE compliant	angled
<b>→ NEW</b>					
<b>SAM-RFH8</b>	1x8 RF splitter	F connector	3GHz	SCTE compliant	angled

## → NEW VOICE / VIDEO COMBINATION MODULES

The new Voice / Video Combination Module is designed to minimize the amount of space required to network a home's voice and video systems. These modules are available with any of the current 1GHz or 3GHz splitters offered by Suttle or with no splitter and just mounting hardware.



SAM-VV4

PART#	DESCRIPTION	
<b>SAM-BV</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: No splitter	 PENDING
<b>SAM-VV4</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: 1x4 RF splitter, F connector, 1GHz, SCTE compliant	
<b>SAM-VV6</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: 1x6 RF splitter, F connector, 1GHz, SCTE compliant	
<b>SAM-VV8</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: 1x8 RF splitter, F connector, 1GHz, SCTE compliant	
<b>SAM-VVH2</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: 1x2 RF splitter, F connector, 3GHz, SCTE compliant	
<b>SAM-VVH3</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: 1x3 RF splitter, F connector, 3GHz, SCTE compliant	
<b>SAM-VVH4</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: 1x4 RF splitter, F connector, 3GHz, SCTE compliant	
<b>SAM-VVH6</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: 1x6 RF splitter, F connector, 3GHz, SCTE compliant	
<b>SAM-VVH8</b>	VOICE: 4-line input, 10 output, 110 IDC, RJ31X alarm jack, 1 RJ45 test jack (568A) VIDEO: 1x8 RF splitter, F connector, 3GHz, SCTE compliant	



## VIDEO AMPLIFIER MODULES

The SOHO Access™ Bi-directional RF Amplifiers boost the incoming signals from the CATV, satellite (after set-top box), or antenna providing high quality video for a TV in your home. Easily integrate modulated signals from DVD/VCRs or security cameras into your video network with the built-in auxiliary ports on the SAM-RFBA38.



SAM-RFBA11

PART#	DESCRIPTION
-------	-------------

<b>SAM-RFBA11</b>	1x1 Bi-directional RF amplifier, 1GHz, +15dB, power passing (forward only), SCTE compliant, includes external DC power adapter
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SAM-RFBA38

<b>SAM-RFBA18</b>	1x8 Bi-directional amplified splitter, 1GHz, +4.5dB, SCTE compliant, includes terminator caps and external DC power adapter
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<b>SAM-RFBA38</b>	3x8 Bi-directional amplified splitter, 1GHz, +2.0dB, SCTE compliant, includes terminator caps and external DC power adapter
-------------------	---

## SATELLITE MULTI-SWITCH MODULE

Distribute satellite and off-air antenna signal (or other input) on a single cable for up to 4 receivers with this DirecTV® approved satellite multi-switch. It provides 2 LNB and 1 ANT/auxiliary inputs to 4 outputs. Just take the two feeds from the satellite and connect them to the correct inputs on the multiswitch. Connect the signal from the off-air antenna or other input device. Then run the 4 outputs to the four receivers located throughout the home.



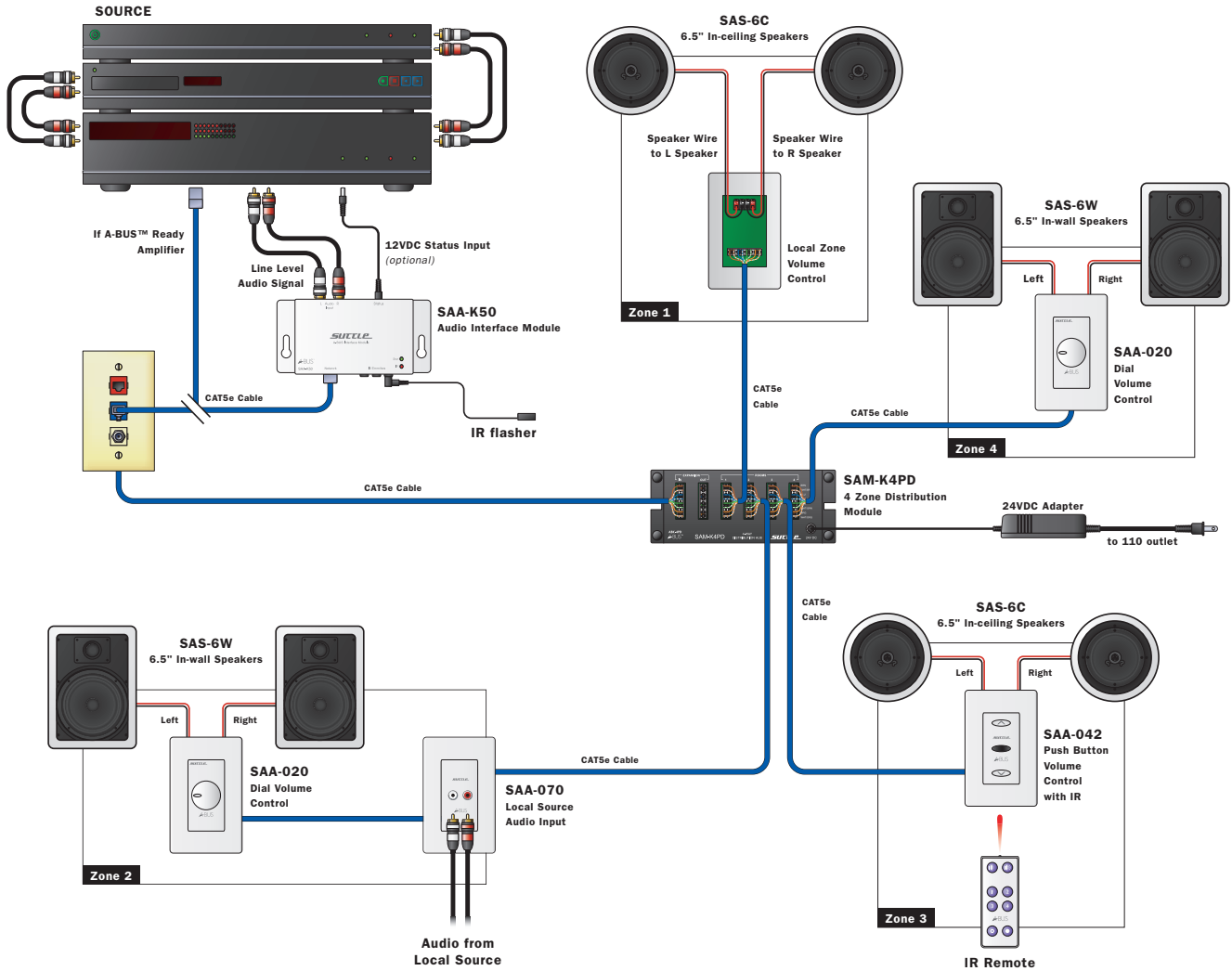
SAM-MS34

PART#	DESCRIPTION
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<b>SAM-MS34</b>	3x4 Multi-switch, DirecTV® approved
-----------------	-------------------------------------

# DISTRIBUTED AUDIO

The A-BUS™ Distributed Audio system from Suttle is simple to use and install, and offers a better way to bring music to any and every room of the home. The Audio interface module takes line-level audio, IR, and source on/off status from a central source (i.e., PC, TV, CD player, etc.) over CAT5 cabling (or better) to amplified volume controls thus eliminating the need for a separate amplifier.



Simply run one CAT5 cable (or better) from the 4-zone/room distribution module in the enclosure to a standard network jack near the main audio input, and another cable from each output to a volume control or volume control and local source input in each zone. 16-gauge speaker wire is then run from each volume control to speakers in that zone.

## A-BUS™ DISTRIBUTED AUDIO SYSTEM



SAA-K50

PART#	DESCRIPTION
<b>SAA-K50</b>	Audio interface module, converts line level input and IR to CAT5e



SAM-K4PD

<b>SAM-K4PD</b>	4-zone audio distribution module, includes power supply
-----------------	---



SAA-070



SAA-020



SAA-042



PART#	DESCRIPTION
<b>SAA-070</b>	Local audio source input module, includes faceplate
<b>SAA-020</b>	Dial volume control, amplified (powered remotely from distribution module, SAM-K4PD), includes faceplate
<b>SAA-042</b>	Push button volume control w/ IR for remote control, amplified (powered remotely from distribution module, SAM-K4PD), includes faceplate

## STANDARD DISTRIBUTED AUDIO MODULE



SAM-SA6

PART#	DESCRIPTION
<b>SAM-SA6</b>	6-zone standard audio distribution module, for speaker wire runs from amplifier to impedance matching volume controls (not included)

## NEW SONIK™ SPEAKERS



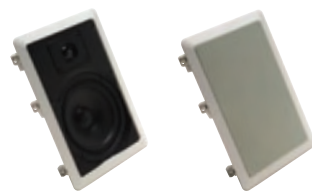
Suttle's new line of SONIK™ in-wall and in-ceiling speakers deliver a high performance, clean, crisp sound that provides entertainment throughout the home. Our stylish, flush mounted speakers blend easily with any décor.

- 1" Ultra-wide dispersion dome tweeter.
- Polypropylene cone handles moist environments while delivering solid bass response.
- Durable Santoprene™ surround offers long life and responsive performance.
- 1" aluminum voice coil easily copes with the heat and power of extended usage.
- The SONIK™ two-piece connector simplifies installation and provides better connection.



SAS-6C

PART#	DESCRIPTION
<b>SAS-6C</b>	One pair of 6.5" in-ceiling speakers, 20/60 Watts, 89dB, 8Ω



SAS-6W

<b>SAS-6W</b>	One pair of 6.5" in-wall speakers, 20/60 Watts, 89dB, 8Ω
---------------	--

# MODULE ACCESSORIES



## BLANK MODULE PLATES



SAM-B

PART#	DESCRIPTION
<b>SAM-B</b>	Blank mounting plate, 3" x 5.5" mounting surface, includes double-stick adhesive foam



SAM-B3

<b>SAM-B3</b>	Blank mounting plate, 4.5" x 6.4" mounting surface, includes double-stick adhesive foam
---------------	---



SAM-B6

<b>→NEW</b>	
<b>SAM-B6</b>	Blank angled mounting plate, 3" x 4.5" mounting surface

## MODULE REPLACEMENT PARTS



SAM-NYL

PART#	DESCRIPTION
<b>SAM-NYL</b>	Push-pin replacement kit, plunger and grommet, 10/bag



SAM-PC3

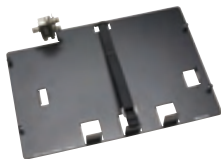
<b>→COMING SOON</b>	
<b>SAM-PC3</b>	Replacement 3" module patch cord, 5/bag
<i>* For use with SAM-V8, SAM-VE, and SAM-DP9</i>	

## CUSTOM MOUNTING BRACKETS



SAM-B5

PART#	DESCRIPTION
<b>SAM-B5</b>	2-line EMTA mounting plate



SAM-MMB-2S

<b>SAM-MMB-2S</b>	Mounting bracket designed to hold a modem or EMTA, 7.7" x 10.5" mounting surface includes Velcro® strap and pre-mounted 1x2 2GHz RF splitter
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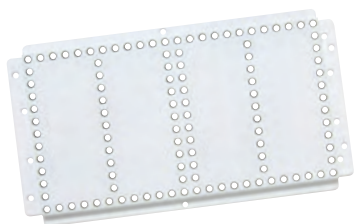


SAM-EMBX

<b>SAM-MMB</b>	Mounting bracket designed to hold a modem or EMTA, 7.7" x 10.5" mounting surface includes Velcro® strap
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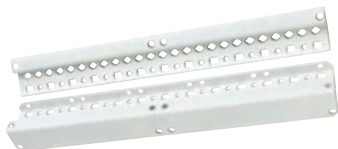
<b>→NEW</b>	
<b>SAM-EMBX</b>	2 piece adjustable mounting bracket with connecting Velcro® strap for mounting 1U rack mount equipment

## ADAPTER BRACKETS



SAM-CMB

PART#	DESCRIPTION
<b>SAM-CMB</b>	Large 10" x 20" mounting bracket which allows up to 4 Suttle modules to fit into a variety of non-Suttle enclosures



SAM-UMB

<b>SAM-UMB</b>	Dual mounting brackets which allow a variety of non-Suttle modules to fit into Suttle enclosures
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## TOOLS



814B

PART#	DESCRIPTION
<b>814B</b>	Automatic impact tool <i>* For use with 22-26 AWG PVC and PIC cable</i>

<b>81401-110-88</b>	Replacement blade for 814B tool, 110 IDC style
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<b>81401-66</b>	Replacement blade for 814B tool, 66 clip style
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798

<b>798</b>	110 IDC connect tool <i>* For use with 22-26 AWG PVC and PIC cable</i>
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SCPLCCT-SLM

➔ **NEW**

<b>SCPLCCT-SLM</b>	Coax compression tool, includes various tips for different connector types
--------------------	--



SPSA

➔ **NEW**

<b>SPSA</b>	Adjustable RG59/RG6 quad-shield cable stripper with RG6 flaring tool
-------------	--





1-800-852-8662 [WWW.SUTLEONLINE.COM](http://WWW.SUTLEONLINE.COM)



# STRUCTURED WIRING

## → STRUCTURED WIRING CONTENT OVERVIEW

Our full line of residential and commercial structured cabling solutions meets the voice, data, and video (VDV) connectivity needs of both today and tomorrow. The versatility of Suttle's multimedia products allows you to maximize the performance of your network.

### p56 **MODULAR MULTIMEDIA**

*Our modular multimedia line of SpeedStar® products is available in multiple configurations to install whatever VDV solution you need. Used with Suttle's line of modular and surface mount faceplates, these products offer an attractive design, choice of colors, and quick assembly. Many are available in CorroShield® configurations.*

### p66 **PATCH PANELS**

*The CAT5e and CAT6 patch panels are ideal for cross-connect applications. Their design makes individual jacks easy to identify and reach, facilitating moves and changes. Suttle's panels are available in 12, 24, and 48 port configurations and their rolled edge steel construction eliminates flex during termination.*

### p67 **RACKS & CABLE MANAGEMENT**

*Cables are easily managed between components within or between racks with the 19WM350 horizontal trough. The aluminum alloy relay rack offers a convenient way to organize panels. Access holes on both sides of the rails allow cables to be routed between adjacent racks.*

### p67 **PATCH CORDS**

*Suttle's CAT5e patch cords provide performance that exceeds TIA/EIA 568-B.2 specifications for component performance while our CAT6 rated patch cords exceed TIA/EIA-568-B.2-1 specifications. Both styles have molded boot covers to provide bend radius protection and are available in a wide variety of lengths and colors.*

### p68 **110 CROSS-CONNECTS**

*110 Cross-Connects are ideal for use where space is limited. Angled IDC connector pins aid in maintaining maximum CAT6 performance, providing a gas tight connection and improved cable retention. The wiring block design permits neat, organized wiring behind the block. All 110 Cross-Connect products exceed CAT6 TIA/EIA-568-B.2-1 performance.*

### p71 **66 BLOCK SYSTEM**

*Suttle offers a complete line of CAT5 and industry standard 66 blocks. The CAT5 blocks distribute data using familiar quick-clips for termination and transmit data rates up to 100 MHz. The 66 blocks are easily stacked to provide flexibility and use quick-connect 66 clips for ease of installation and proven termination reliability.*



# MODULAR MULTIMEDIA

Subtle modular connection products make it easy to install whatever voice, data, or video solution you need. Our full selection of structured cabling multimedia product features our SpeedStar line available in multiple configurations.

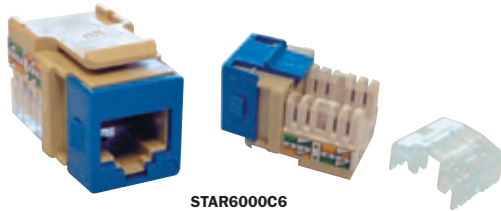
- Connectors for use with modular faceplates, frames, and surface mount housings
- Data products exceed Category 6 and 5e performance specifications
- Simple, snap-in assembly
- Voice and data modules available in *CorroShield* sealed configurations for the ultimate in corrosion protection

## JACKS

### DATA JACKS: CATEGORY 6

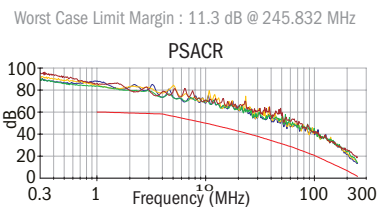
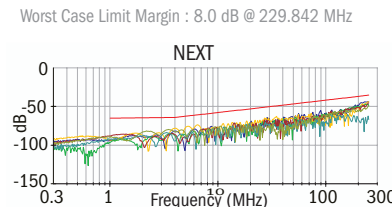
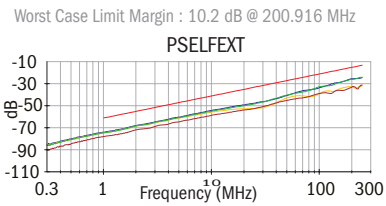
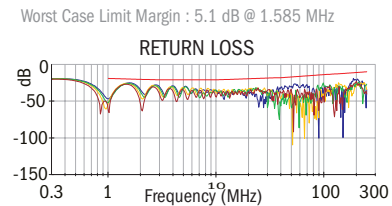
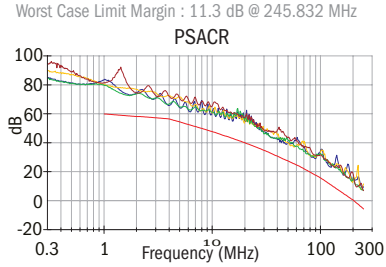
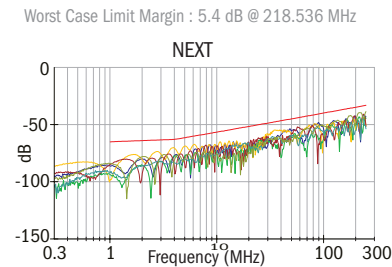
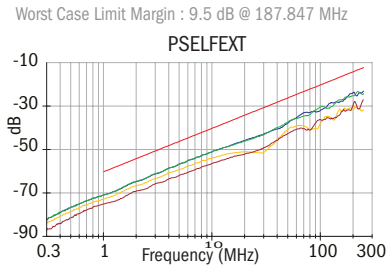
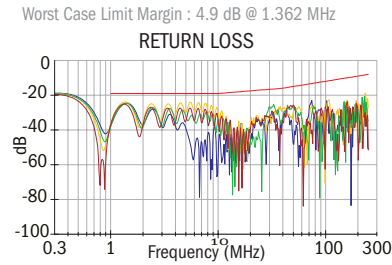


Get your network up to speed with Suttle's CAT6 SpeedStar structured cabling system. This system's series of Category 6 rated products provides performance that exceeds TIA/EIA-568-B.2-1 specifications for channel and link performance. Installing Suttle's SpeedStar Category 6 products helps insure your network is clean and ready for new emerging applications.



PART#	DESCRIPTION
<b>STAR6000C6</b>	8-Position, 8-conductor, 568A/B, 110 IDC

\* Includes 8 colored bezels



### CHANNEL PERFORMANCE TESTS

Suttle Category 6 products go beyond standards to provide performance well beyond 250 MHz.

### LINK PERFORMANCE TESTS

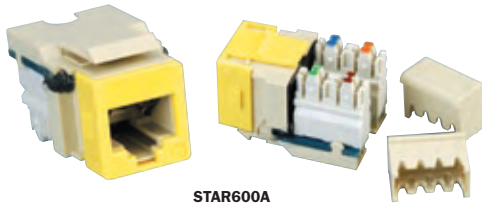
Suttle Category 6 products go beyond standardsto provide performance well beyond 250 MHz.

Note: Link and Channel performance verified by Underwriters Laboratories, example results from CommScope UltraMedia 7504 Plenum Cable.

## DATA JACKS: CATEGORY 5e



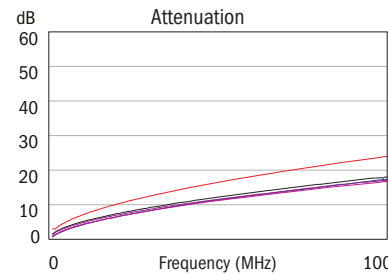
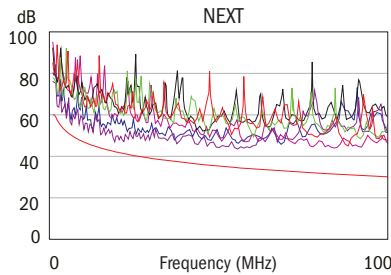
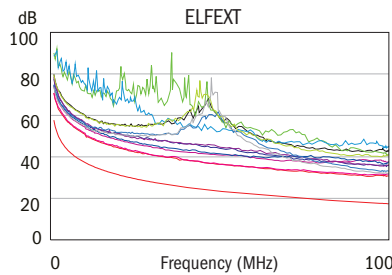
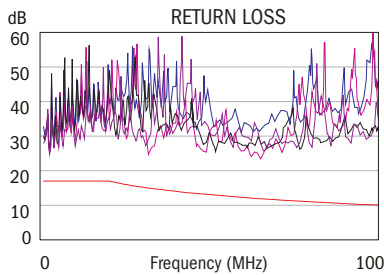
Make sure your network is capable of handling the traffic demands required for today's growing applications. The SpeedStar Category 5e system provides performance that exceeds TIA/EIA 568-B.2 specifications for channel and link, and component performance.



STAR600A

PART#	DESCRIPTION	CORROSHIELD
STAR600A	8-position, 8-conductor, 568A, 110 IDC	
STAR600B	8-position, 8-conductor, 568B, 110 IDC	
STAR600A-RC	8-position, 8-conductor, 568A, 110 IDC	CorroShield
STAR600B-RC	8-position, 8-conductor, 568B, 110 IDC	CorroShield

\* Includes 8 colored bezels

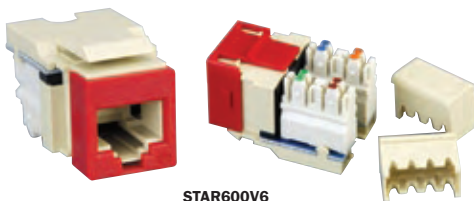


### CHANNEL PERFORMANCE TESTS

Subtle Category 5e products go beyond standards to provide performance well beyond 100 MHz.

Note: Test results based on use of Mohawk/CDT Cable

## VOICE JACKS



STAR600V6

PART#	DESCRIPTION	CORROSHIELD
STAR600V6	6-position, 6-conductor, 110 IDC	
STAR600V6-RC	6-position, 6-conductor, 110 IDC	CorroShield

\* Includes 8 colored bezels

## JACK BEZELS



■ Voice and data modules come packaged with the following color identifying bezels:



### COLORS:

	Orange = (97)		Red = (53)		Green = (51)		Blue = (62)
	White = (85)		Light Almond = (64)		Electrical Ivory = (52)		Yellow = (56)

# AUDIO/VIDEO CONNECTORS



## BARREL STYLE CONNECTORS



STAR500F-xx

STAR500F-C-xx

PART#	DESCRIPTION
<b>STAR500F-xx</b>	F81 barrel connector, 1GHz
<b>STAR500F-C-xx</b>	F81 barrel connector, 3GHz, SCTE compliant
COLORS (-xx):	Electrical Ivory = (52)                  Light Almond = (64)                  White = (85)



STAR500BNC-xx

PART#	DESCRIPTION
<b>STAR500BNC-xx</b>	BNC barrel connector
COLORS (-xx):	Electrical Ivory = (52)                  Light Almond = (64)                  White = (85)



STAR506SVGA-xx

PART#	DESCRIPTION
<b>STAR-SVGA-xx</b>	SVGA connector for STAR1064M mounting frame
<b>STAR506SVGA-xx</b>	SVGA connector for use with STAR5501P or STAR5502P insert style faceplates
COLORS (-xx):	Electrical Ivory = (52)                  Light Almond = (64)                  White = (85)

## NEW COMPRESSION STYLE CONNECTORS

Ideal for home theater and network connections, Suttle offers multiple grades of reliable broadband cable connectors. These connectors are ruggedly built to meet the demands of the residential and commercial digital wiring market. The gold series brings discriminating clients excellent electrical performance and dependability. The adaptable color rings and housing inserts let you retrofit connectors quickly and easily no matter which type or grade.

- No soldering required
- One-step crimp process
- Meets SCTE-IPC and Bellcore requirements
- Adaptable color rings and housings



SFS6U-HI

SRG6U-HI

PART#	DESCRIPTION	MOQ
<b>SFS6U-HI</b>	Compression F connector, female, nickel plated, RG6 Universal	25
<b>SRG6U-HI</b>	Compression F connector, female, gold plated, RG6 Universal	25
<b>SFS6BNCU-HI</b>	BNC compression connector, female, nickel plated, RG6 Universal	25
<b>SRG6BNCU-HI</b>	BNC compression connector, female, gold plated, RG6 Universal	25
<b>SFS6RCAU-HI</b>	RCA compression connector, female, nickel plated, RG6 Universal	25
<b>SRG6RCAU-HI</b>	RCA compression connector, female, gold plated, RG6 Universal	25

\* For use with STAR-HCP-xx housing inserts and HIO-x indicator rings



SFS6BNCU-HI

SRG6BNCU-HI



SFS6RCAU-HI

SRG6RCAU-HI

PART#	DESCRIPTION	MOQ
<b>STAR-HCP-xx</b>	SpeedStar housing inserts for female compression connectors	25
COLORS (-xx):	Electrical Ivory = (52)                  Light Almond = (64)                  White = (85)	

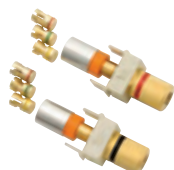


STAR-HPC-xx



HIO-x

PART#	DESCRIPTION	MOQ
<b>HIO-B</b>	Blue universal indicator ring for female connectors	100
<b>HIO-BK</b>	Black universal indicator ring for female connectors	100
<b>HIO-G</b>	Green universal indicator ring for female connectors	100
<b>HIO-O</b>	Orange universal indicator ring for female connectors	100
<b>HIO-P</b>	Purple universal indicator ring for female connectors	100
<b>HIO-R</b>	Red universal indicator ring for female connectors	100
<b>HIO-W</b>	White universal indicator ring for female connectors	100
<b>HIO-Y</b>	Yellow universal indicator ring for female connectors	100



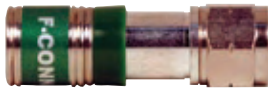
STAR-BP-GCP-xx

PART#	DESCRIPTION
<b>STAR-BP-GCP-xx</b>	2 speaker binding post compression connectors (1 Red, 1 Black), gold plated, includes 2 sets of 12, 14, and 16 AWG speaker wire inserts
COLORS (-xx):	Electrical Ivory = (52)                  Light Almond = (64)                  White = (85)



## → NEW BULK MALE COMPRESSION STYLE CONNECTORS

- No soldering required
- One-step crimp process
- Meets SCTE-IPC and Bellcore requirements
- Prevents moisture migration with internal sealing "O" rings



SFS6U



SRG6U



SFS6BNCU



SFS6RCAU



SRG6RCAU

PART#	DESCRIPTION	MOQ
<b>SFS6U</b>	Compression F connector, male, nickel plated, RG6 Universal	25

PART#	DESCRIPTION	MOQ
<b>SRG6U</b>	Compression F connector, male, gold plated, RG6 Universal	25

PART#	DESCRIPTION	MOQ
<b>SFS6BNCU</b>	BNC compression connector, male, nickel plated, RG6 Universal	25

PART#	DESCRIPTION	MOQ
<b>SFS6RCAU</b>	RCA compression connector, male, nickel plated, RG6 Universal	25

PART#	DESCRIPTION	MOQ
<b>SRG6RCAU</b>	RCA compression connector, male, gold plated, RG6 Universal	25



SFSCR-B

SFSCR-BK



SFSCR-G

SFSCR-O



SFSCR-P

SFSCR-R



SFSCR-W

SFSCR-Y

PART#	DESCRIPTION	COLOR	MOQ
<b>SFSCR-B</b>	Universal indicator ring for male compression connectors	Blue	100
<b>SFSCR-BK</b>	Universal indicator ring for male compression connectors	Black	100
<b>SFSCR-G</b>	Universal indicator ring for male compression connectors	Green	100
<b>SFSCR-O</b>	Universal indicator ring for male compression connectors	Orange	100
<b>SFSCR-P</b>	Universal indicator ring for male compression connectors	Purple	100
<b>SFSCR-R</b>	Universal indicator ring for male compression connectors	Red	100
<b>SFSCR-W</b>	Universal indicator ring for male compression connectors	White	100
<b>SFSCR-Y</b>	Universal indicator ring for male compression connectors	Yellow	100

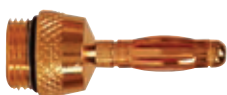
\* For use with all Bulk Male Compression Style Connectors



SRGSPU

PART#	DESCRIPTION	MOQ
<b>SRGSPU</b>	4 speaker compression connectors, gold plated, speaker wire, includes 4 sets of 12, 14, and 16 AWG wire inserts, 4 red and 6 black color indicator rings	20

\* For use with SRGSPB

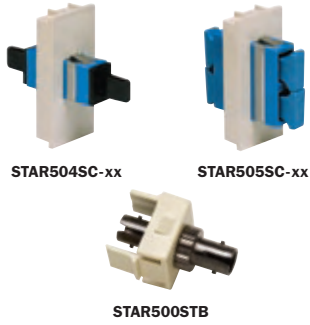


SRGSPB

PART#	DESCRIPTION	MOQ
<b>SRGSPB</b>	Banana tip for SRGSPU, gold plated	20



## FIBER OPTIC CONNECTORS



PART#	DESCRIPTION						
<b>STAR-SCS-xx</b>	Simplex SC insert and adapter for use with STAR1064M single gang duplex mounting frame only (pg 63)						
<b>STAR-SCD-xx</b>	Duplex SC insert and adapter for use with STAR1064M single gang duplex mounting frame only (pg 63)						
<b>STAR504SC-xx</b>	Simplex SC insert and adapter for use with insert style modular faceplates or surface mount housings						
<b>STAR505SC-xx</b>	Duplex SC insert and adapter for use with insert style modular faceplates only or surface mount housings						
<b>STAR500STB-xx</b>	Simplex ST snap-in module housing and adapter						
<b>STAR500HST-xx</b>	Simplex ST snap-in module housing only						
<b>COLORS (-xx):</b>	<table border="0"> <tr> <td></td> <td>Electrical Ivory = (52)</td> <td></td> <td>Light Almond = (64)</td> <td></td> <td>White = (85)</td> </tr> </table>		Electrical Ivory = (52)		Light Almond = (64)		White = (85)
	Electrical Ivory = (52)		Light Almond = (64)		White = (85)		

## BLANK CONNECTOR INSERT

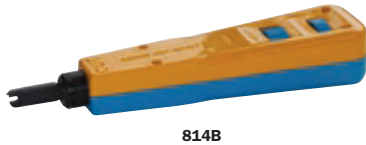


PART#	DESCRIPTION						
<b>STAR500B-xx</b>	Blank insert						
<b>COLORS (-xx):</b>	<table border="0"> <tr> <td></td> <td>Electrical Ivory = (52)</td> <td></td> <td>Light Almond = (64)</td> <td></td> <td>White = (85)</td> </tr> </table>		Electrical Ivory = (52)		Light Almond = (64)		White = (85)
	Electrical Ivory = (52)		Light Almond = (64)		White = (85)		

## TOOLS

### 814 AUTOMATIC TERMINATING TOOL

The 814B impact tool is designed for termination of 22-26 AWG station wire on 110 or 66 type terminations. Spring-loaded and fully adjustable. This tool is ideal when working with wires of varying thickness. Reversible Termination Blade can terminate and cut off excess wire or terminate only.



PART#	DESCRIPTION
<b>814B</b>	Automatic impact tool
<b>81401-110-88</b>	Replacement blade for 814B tool, 110 clip style
<b>81401-66</b>	Replacement blade for 814B tool, 66 clip style

### 798 PUNCHDOWN TOOL



PART#	DESCRIPTION
<b>798</b>	110 IDC connect tool; for use with 22-26 AWG PVC and PIC cables.

### FIELD TERMINATION PUCK



The ergonomically designed Suttle termination puck protects workers hands while providing a fast and easy way of terminating modules requiring punchdown termination. Modules easily slide and lock into position creating a safe and convenient way of terminating.

PART#	DESCRIPTION
<b>2-FTP</b>	Punchdown termination puck

## NEW COAX COMPRESSION TOOLS



PART#	DESCRIPTION
<b>SCPLCCT-SLM</b>	Coax compression tool, includes various tips for different connector types

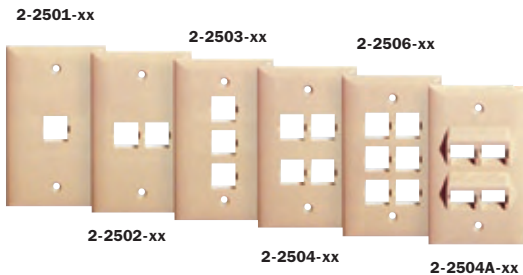


PART#	DESCRIPTION
<b>SPSA</b>	Adjustable RG59/RG6 quad-shield cable stripper with RG6 flaring tool

## FACEPLATES AND FRAMES

- Faceplates are available in Smooth or Textured finishes
- Modular ports provide versatile configuration options
- Flush mount faceplates and surface mount housings deliver flexibility to any application
- Mounting frames fit standard floor and wall J-box designs and can utilize standard electrical faceplates

### SMOOTH MODULAR FACEPLATES : SINGLE GANG

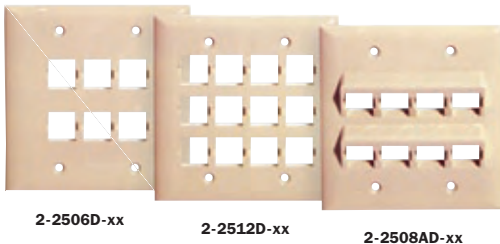


PART#	DESCRIPTION
<b>2-2501-xx</b>	1 -port faceplate, single gang, smooth finish
<b>2-2501M-xx</b>	1 -port faceplate, oversized, smooth finish
<b>2-2502-xx</b>	2 -port faceplate, single gang, smooth finish
<b>2-2502M-xx</b>	2 -port faceplate, oversized, smooth finish
<b>2-2503-xx</b>	3 -port faceplate, single gang, smooth finish
<b>2-2503M-xx</b>	3 -port faceplate, oversized, smooth finish
<b>2-2504-xx</b>	4 -port faceplate, single gang, smooth finish
<b>2-2504M-xx</b>	4 -port faceplate, oversized, smooth finish
<b>2-2506-xx</b>	6 -port faceplate, single gang, smooth finish
<b>2-2506M-xx</b>	6 -port faceplate, oversized, smooth finish
<b>2-2504A-xx</b>	4 -port faceplate, single gang, smooth finish

DIMENSIONS: Oversized - 4.875"H x 3.125"W x 0.2"D  
Single Gang - 4.57"H x 2.81"W x 0.2"D

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)

### SMOOTH MODULAR FACEPLATES : DOUBLE GANG



PART#	DESCRIPTION
<b>2-2506D-xx</b>	6 -port faceplate, double gang, smooth finish
<b>2-2512D-xx</b>	12 -port faceplate, double gang, smooth finish
<b>2-2508AD-xx</b>	8 -port faceplate, double gang, smooth finish, angled

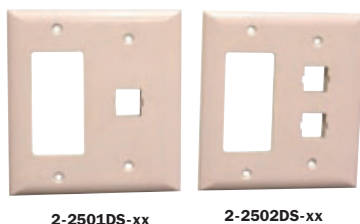
DIMENSIONS: 4.57"H x 4.5"W x 0.2"D

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)

### SMOOTH MODULAR FACEPLATES: COMBO ELECTRIC/MULTIMEDIA FACEPLATE

This double gang electric/multimedia combo faceplate provides a single gang electrical port for standard GFCI electrical receptacles as well as one or two multimedia ports (for voice, data, video, audio, or fiber modules). The smooth, sleek design matches electrical style faceplates and is available in 3 colors.

- Single gang electrical port - fits standard GFCI electrical receptacles
- Available with one or two multimedia connector ports
- Smooth, Sleek design
- Snap-in module ports provide versatile configurations for voice, data, video, audio, or fiber connections
- Note: check local building codes about wiring



PART#	DESCRIPTION
<b>2-2501DS-xx</b>	1 multimedia port, single gang GFCI port, smooth finish
<b>2-2502DS-xx</b>	2 multimedia port, single gang GFCI port, smooth finish

DIMENSIONS: 4.8"H x 4.5"W x 0.2"D

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)

## NEW INTEGRITY™ II PLATE

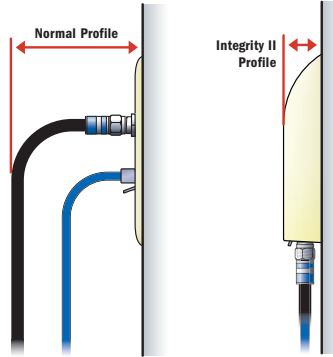


The Integrity™ II line of products provides a different way to look at trouble free installations.

- Protects connectors from damage caused by objects forced against the plate
- Four insert configurations for maximum flexibility
- Mounting screws included



2-6504-xx



The downward orientation of the faceplate delivers improved performance and value in the areas of network integrity, bend radius integrity, and connection integrity.



2-port F81 insert



CablePass™ insert



2-port SpeedStar insert



Combo F81/SpeedStar insert

PART#	DESCRIPTION
<b>2-6501-xx</b>	Plate w/ 2-port F81 connector insert, connectors not included
<b>2-6502-xx</b>	Plate w/ 2-port SpeedStar connector insert, connectors not included
<b>2-6503-xx</b>	Plate w/ CablePass™ feed through insert
<b>2-6504-xx</b>	Plate w/ combo F81/SpeedStar connector insert, connectors not included
<b>2-6500-xx</b>	Plate w/ all 4 inserts

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)

## INTEGRITY™ COAX PLATE



2-6001-2FC-xx

- Protects connectors from damage caused by objects forced against the plate
- Tear out feature for CablePass™ feed through
- Mounting screws included

PART#	DESCRIPTION
<b>2-6001-xx</b>	Plate only, no connectors
<b>2-6001-1FC-xx</b>	Plate w/ 1 F81 barrel connector, 3GHz, SCTE compliant (SCTE 02 2006)
<b>2-6001-2FC-xx</b>	Plate w/ 2 F81 barrel connector, 3GHz, SCTE compliant (SCTE 02 2006)

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)

**TEXTURED MODULAR FACEPLATES WITH LABELS : STANDARD**



PART#	DESCRIPTION
<b>STAR500S1-xx</b>	1 - port, single gang
<b>STAR500S2-xx</b>	2 - port, single gang
<b>STAR500S4-xx</b>	4 - port, single gang
<b>STAR500S6-xx</b>	6 - port, single gang
<b>STAR500AF-xx</b>	4 - port, angled, single gang

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)

**TEXTURED MODULAR FACEPLATES WITH LABELS : INSERT**



PART#	DESCRIPTION
<b>STAR5501P-xx</b>	6 - port, single gang (requires mounting plate inserts)
<b>STAR5502P-xx</b>	12 - port, double gang (requires mounting plate inserts)

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)

**MOUNTING PLATE INSERTS**



PART#	DESCRIPTION
<b>STAR501-xx</b>	1 - port insert
<b>STAR502-xx</b>	2 - port insert
<b>STAR503-xx</b>	Blank insert (no ports)
<b>STAR504-xx</b>	Simplex SC insert
<b>STAR505-xx</b>	Duplex SC insert

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)

**106 TYPE MODULAR MOUNTING FRAMES : SINGLE GANG**



PART#	DESCRIPTION
<b>STAR1062-xx</b>	2 - port insert mounting frame
<b>STAR1064M-xx</b>	4 - port duplex insert style mounting frame (includes mounting plate inserts)
<b>860A-xx</b>	Duplex electrical style faceplate with label location

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)



## ➔ SURFACE MOUNT HOUSINGS AND BOXES



### SURFACE MOUNT HOUSINGS

SpeedStar surface mount housings are available in several configurations for use with Suttle's multimedia connectors. Each housing provides simple snap-in installation through the use of versatile insert plates.

- Easily field configured with snap-in connectors which can be terminated directly in each port
- Snap-in wiring spools provide cable management and recommended strain relief (STARMMB only)
- Screw or adhesive pad mounting options (both included)
- Easy to read port designations for quick identification (STARMMB only)
- Snap on cover reduces installation time (STARMMB has a screw-on cover)
- The STARMMB (Multi-Media Box) contains knockouts to accommodate cable or raceway entry and fits single, double, and European style electrical



STAR558-xx

PART#	DESCRIPTION	DIMENSIONS
<b>STAR558-xx</b>	1- or 2-ports	2.5"L x 2.7"W x 1.18"H

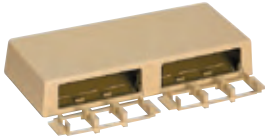
COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)



STAR107SM-xx

PART#	DESCRIPTION	DIMENSIONS
<b>STAR107SM-xx</b>	Up to 3-ports	3.25"L x 2.63"W x 1.04"H

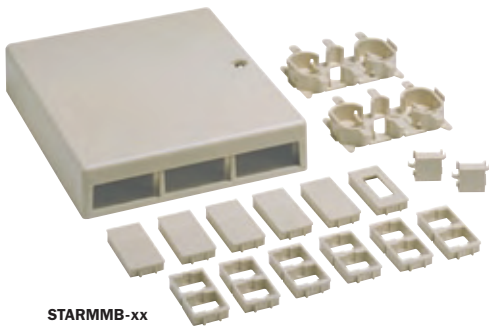
COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)



STAR108SM-xx

PART#	DESCRIPTION	DIMENSIONS
<b>STAR108SM-xx</b>	Up to 6-ports	6.2"L x 2.63"W x 1.04"H

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)



STARMMB-xx

PART#	DESCRIPTION	DIMENSIONS
<b>STARMMB-xx</b>	Up to 12-ports	6.82"L x 5.61"W x 1.35"H

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)

### SURFACE MOUNT BOXES



STARMBD-xx



STARMBDD-xx

- Contoured to match textured SpeedStar faceplates
- Provides for proper Category 5e and Category 6 bend radius
- Oversized to accommodate most faceplates
- Rear cable entry and mounting holes to fit most brackets
- Knockouts on top, bottom, and sides for raceway entry

ART#	DESCRIPTION
<b>STARMBD-xx</b>	Surface mount box, single gang
<b>STARMBDD-xx</b>	Surface mount box, double gang

COLORS (-xx): Electrical Ivory = (52) Light Almond = (64) White = (85)

## ➔ OUTDOOR JACK ASSEMBLIES

### OUTDOOR SURFACE MOUNT JACK ASSEMBLIES

- Removable mounting tabs
- Station wire entrance coupling contains bushing for added protection
- Wire entrance available from top, bottom, or either side
- Conduit or pipe entrance can be made by removing the 1/2 inch threaded pipe nipple
- Housing is die cast aluminum with corrosion resistance finish



STAR19316

PART#	DESCRIPTION
<b>STAR19316</b>	1-port, designed for use w/Speedstar modular connector (not included)

### OUTDOOR FLUSH MOUNT JACK ASSEMBLIES

- Neoprene rubber gasket provides water-resistant seal on masonry, wood, or uneven surfaces
- Faceplate is constructed of aluminum with baked enamel finish



STAR16152

PART#	DESCRIPTION
<b>STAR16152</b>	1-port, designed for use w/SpeedStar modular connector (not included)
<b>STAR16152L8</b>	1-port, includes outlet box, designed for use w/SpeedStar modular connector (not included)

# PATCH PANELS

Patch panels are 19-inch rack mountable and are equipped with IDC terminated PCB assemblies. The 12-port patch panels include a bracket for wall mounting.

- Rugged steel construction, with rolled edges eliminates flex during termination
- Write-on label and number designations provide easy identification
- Rear cable management bar provides cable strain relief
- Multiple cable tie locations facilitate cable dressing, moves, adds, and changes
- Termination labels provide port numbering and 568A/B color-coding for quick installation
- Available in 12, 24, and 48 port configurations

## DATA JACKS: CATEGORY 6

EXCEEDS  
250MHz  
SEE PAGE 56



- Exceeds TIA/EIA-568-B.2-1 specifications for performance
- Supports bandwidth beyond 250MHz
- Angled and paired IDC pins aid in maintaining maximum Category 6 performance, providing a gas tight connection and improved cable retention



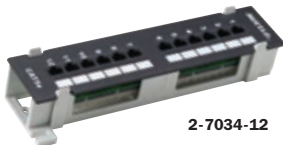
PART#	DESCRIPTION	DIMENSIONS
<b>STAR19110C6-12</b>	12-port, Category 6, 568A/B, wall mount (bracket included)	3.2"H x 10"W x 2"D
<b>STAR19110C6-24</b>	24-port, Category 6, 568A/B, 19" rack mount)	1.75"H x 19"W x 3.5"D
<b>STAR19110C6-48</b>	48-port, Category 6, 568A/B, 19" rack mount)	3.5"H x 19"W x 3.5"D

## CATEGORY 5e PATCH PANELS

EXCEEDS  
100MHz  
SEE PAGE 57



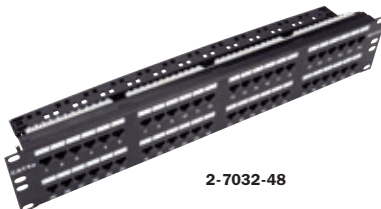
- Exceeds TIA/EIA-568-B.2 specifications for component performance
- Supports bandwidth beyond 100MHz



PART#	DESCRIPTION	DIMENSIONS
<b>2-7034-12</b>	12-port, Category 5e, 568A/B, wall mount (89B bracket included)	3.25"H x 10"W x 2"D



PART#	DESCRIPTION	DIMENSIONS
<b>2-7030-24</b>	24-port, Category 5e, 568A/B, 19" rack mount	1.75"H x 19"W x 3.5"D



PART#	DESCRIPTION	DIMENSIONS
<b>2-7032-48</b>	48-port, Category 5e, 568A/B, 19" rack mount	3.5"H x 19"W x 3.5"D

# RACKS AND CABLE MANAGEMENT

## EQUIPMENT RACK



19110RK

Aluminum alloy relay rack for mounting computer room panels, enclosures and related communications equipment. Side rails are drilled and tapped on both sides. Includes thirty (30) #12-24 screws.

PART#	DESCRIPTION
<b>19110RK</b>	Relay rack (19" W x 84" H)

## HORIZONTAL TROUGH



19WM350

The 19WM350 provides a horizontal trough to route cable between components within or between racks.

PART#	DESCRIPTION
<b>19WM350</b>	Horizontal trough (19" W x 3.5" H)

# PATCH CORDS

## CATEGORY 6 PATCH CORDS

EXCEEDS  
**250 MHz**  
SEE PAGE 56



STAR661-04-53

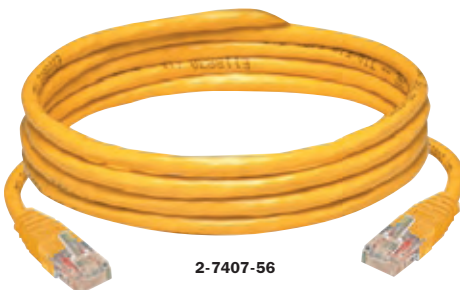
- Exceeds TIA/EIA-568-B.2-1 specifications for performance
- Category 6 products support bandwidth beyond 250MHz
- Molded boot covers and protects the protruding latch, preventing connector disruption
- The easily depressed latch mechanism makes it a snap to insert and unplug
- Additional sizes and colors may be available by request

PART #	DESCRIPTION	LENGTH
<b>STAR661-04-xx</b>	Category 6 patch cord	4- ft
<b>STAR661-08-xx</b>	Category 6 patch cord	8- ft
<b>STAR661-12-xx</b>	Category 6 patch cord	12- ft

COLORS (-xx):  Red = (53)  Yellow = (56)  Blue = (62)

## CATEGORY 5e PATCH CORDS

EXCEEDS  
**100 MHz**  
SEE PAGE 57



2-7407-56

- Exceeds TIA/EIA-568-B.2 specifications for component performance
- Category 5e products support bandwidth beyond 100MHz
- Molded boot covers provide bend radius protection
- The easily depressed latch mechanism makes it a snap to insert and unplug
- Additional sizes and colors may be available by request

PART #	DESCRIPTION	LENGTH
<b>2-7403-xx</b>	Category 5e patch cord	3- ft
<b>2-7407-xx</b>	Category 5e patch cord	7- ft
<b>2-7410-xx</b>	Category 5e patch cord	10- ft
<b>2-7415-xx</b>	Category 5e patch cord	15- ft

COLORS (-xx):  Red = (53)  Yellow = (56)  Blue = (62)

# 110 CROSS-CONNECTS

## ➔ CATEGORY 6 110 CROSS-CONNECTS

Suttle's SpeedStar 110 Cross-Connect System provides a high performance Category 6 or 5e solution for data communications management in a telecommunications closet, main distribution frame, or consolidation point. 110 Cross-Connects are ideal for use where space is limited or a cost-effective solution is preferred over a modular patch panel.

### CATEGORY 6 CROSS-CONNECT SYSTEM

EXCEEDS  
250 MHz  
SEE PAGE 56



- Exceeds Category 6 TIA/EIA-568-B.2-1 specifications for channel performance
- Angled and paired IDC pins aid in maintaining maximum CAT6 performance and provide a gas tight connection and improved cable retention
- Wiring Block design permits neat, organized wiring behind the block
- Solder-plated quick clips easily cut through insulation on 22-26 AWG conductors
- Color-coded for rapid pair identification and termination
- Available with or without legs



STAR110C6-48

PART#	DESCRIPTION
STAR110C6-48	48-pair base includes 4-pair connecting blocks and label kits



STAR110C6-48L

PART#	DESCRIPTION
STAR110C6-48L	48-pair base with legs, includes 4-pair connecting blocks and label kits



STAR110C6-96

PART#	DESCRIPTION
STAR110C6-96	96-pair base includes 4-pair connecting blocks and label kits



STAR110C6-96L

PART#	DESCRIPTION
STAR110C6-96L	96-pair base with legs, includes 4-pair connecting blocks and label kits



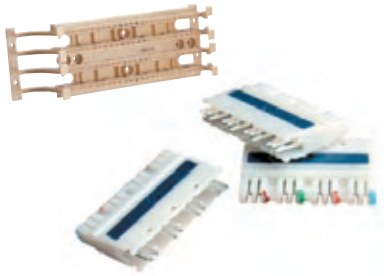
## ➔ CATEGORY 5e 110 CROSS-CONNECTS

The Suttle Category 5e 110 Cross-Connect System is available in easy-to-order kits or individual components.

- Exceeds Category 5e TIA/EIA-568-B.2 specifications for component performance
- Wiring Block design permits neat, organized wiring behind the block
- Solder-plated quick clips easily cut through insulation on 22-26 AWG conductors
- Color-coded for rapid pair identification and termination
- Available with or without legs

### CATEGORY 5e CROSS-CONNECT SYSTEM : TERMINATION KITS

EXCEEDS  
100MHz  
SEE PAGE 57



PART#	DESCRIPTION	DIMENSIONS
<b>110AA2-100</b>	100-pair base with legs; 5-pair connecting blocks and labels	3.6"H x 10.7"W x 3.4"D
<b>110AB2-100</b>	100-pair base with legs; 4-pair connecting blocks and labels	3.6"H x 10.7"W x 3.4"D
<b>110AA2-300</b>	300-pair base with legs; 5-pair connecting blocks and labels	10.8"H x 10.7"W x 3.4"D
<b>110AB2-300</b>	300-pair base with legs; 4-pair connecting blocks and labels	10.8"H x 10.7"W x 3.4"D

### CATEGORY 5e 110 WIRING BLOCKS

EXCEEDS  
100MHz  
SEE PAGE 57



110DW1-25



110DW1-50



110DW2-100



110AW2-100



110DW2-300



110AW2-300

PART#	DESCRIPTION	DIMENSIONS
<b>110DW1-25</b>	25-pair base	0.8"H x 8.5"W x 1.6"D

PART#	DESCRIPTION	DIMENSIONS
<b>110DW1-50</b>	50-pair base	1.7"H x 8.5"W x 1.6"D

PART#	DESCRIPTION	DIMENSIONS
<b>110DW2-100</b>	100-pair base	3.6"H x 8.5"W x 1.6"D

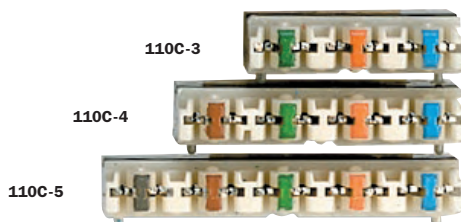
PART#	DESCRIPTION	DIMENSIONS
<b>110AW2-100</b>	100-pair base with legs	3.6"H x 10.7"W x 3.4"D

PART#	DESCRIPTION	DIMENSIONS
<b>110DW2-300</b>	300-pair base	10.8"H x 8.5"W x 1.6"D

PART#	DESCRIPTION	DIMENSIONS
<b>110AW2-300</b>	300-pair base with legs	10.8"H x 10.7"W x 3.4"D

### CATEGORY 5e 110 CONNECTING BLOCKS

EXCEEDS  
100MHz  
SEE PAGE 57



PART#	DESCRIPTION
<b>110C-3</b>	3-pair connecting block
<b>110C-4</b>	4-pair connecting block
<b>110C-5</b>	5-pair connecting block

## ➔ 110 ACCESSORIES

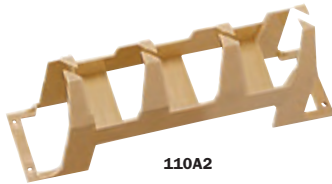
### LABELS



188UT1-50

PART#	DESCRIPTION
<b>188UT1-50</b>	Label kit with 6 unmarked strips and 6 transparent holders

### TROUGHS



110A2

PART#	DESCRIPTION	DIMENSIONS
<b>110A2</b>	110 jumper trough with legs	1.85"H x 10.75"W x 4.4"D
<b>110B1</b>	110 jumper trough without legs	1.75"H x 8.5"W x 2.5"D

### TOOL : 110 CATEGORY 6 MULTI-PAIR TERMINATION TOOL

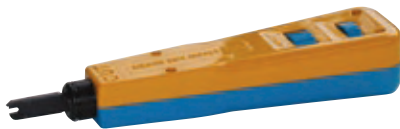


STAR110C6-T

PART#	DESCRIPTION
<b>STAR110C6-T</b>	4-pair punchdown tool for Category 6 110 Cross Connect System
<i>* For use with STAR19110C6-xx patch panels and STAR110C6-4-xx connecting block</i>	

### TOOL : 814 TERMINATION TOOL

The 814B impact tool is designed for termination of 22-26 AWG station wire on 110 or 66 type terminations. Spring-loaded and fully adjustable. This tool is ideal when working with wires of varying thickness. Reversible Termination Blade can terminate and cut off excess wire or terminate only.



814B

PART#	DESCRIPTION
<b>814B</b>	Automatic impact tool
<b>81401-110-88</b>	Replacement blade for 814B tool, 110 clip style
<b>81401-66</b>	Replacement blade for 814B tool, 66 clip style

# 66 BLOCK SYSTEM

Suttle's 66 Block system is used in equipment rooms or in remote and intermediate wiring closets to connect voice or data wiring to customer premise equipment.

- Blocks are molded of flame retardant thermoplastic with quick-connect 66 clips for ease of installation and proven termination reliability

## FIELD TERMINATED 66M BLOCKS

### CATEGORY 5 CONNECTING BLOCKS



Designed to fill the need for CAT5 distribution using familiar quick-clips for termination.

- Ability to transmit data rates up to 100 MHz
- Exceeds TIA/EIA 568-B specifications for Category 5 performance
- Includes cover labeled CAT5

PART#	DESCRIPTION	PAIR CAPACITY	TERMINAL
<b>66M1-50-C5</b>	4 x 50, Category 5, 66M connecting block	50	2-clip

DIMENSIONS: 10"H x 3.4"W x 1.25"D

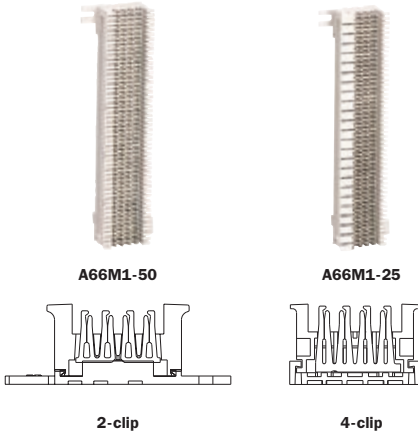
COLORS (-xx):  White = (85)

PART#	DESCRIPTION	PAIR CAPACITY	TERMINAL
<b>66M1-50-C5-62</b>	4 x 50, Category 5, 66M connecting block	50	2-clip

DIMENSIONS: 10"H x 3.4"W x 1.25"D

COLORS (-xx):  Blue = (62)

### 4 x 50 BLOCKS



PART#	DESCRIPTION	PAIR CAPACITY	TERMINAL
<b>A66M1-25</b>	4 x 50, 66M connecting block, includes 1 designation strip	25	4-clip

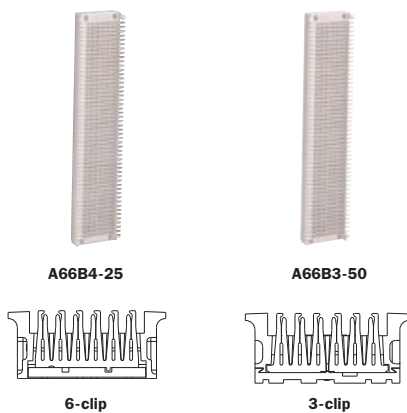
DIMENSIONS: 10"H x 3.4"W x 1.2"D

PART#	DESCRIPTION	PAIR CAPACITY	TERMINAL
<b>A66M1-50</b>	4 x 50, 66M connecting block, includes 2 designation strips	50	2-clip

DIMENSIONS: 10"H x 3.4"W x 1.2"D

## FIELD TERMINATED 66B BLOCKS

### 6 x 50 BLOCKS



PART#	DESCRIPTION	PAIR CAPACITY	TERMINAL
<b>A66B4-25</b>	6 x 50, 66B connecting block	25	6-clip

DIMENSIONS: 13.44"H x 2.8"W x 1.25"D

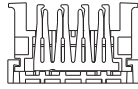
PART#	DESCRIPTION	PAIR CAPACITY	TERMINAL
<b>A66B3-50</b>	6 x 50, 66B connecting block	50	3-clip

DIMENSIONS: 13.44"H x 2.8"W x 1.25"D

## 4 x 12 BLOCKS



66CB1-6



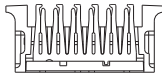
4-clip

PART#	DESCRIPTION	PAIR CAPACITY	TERMINAL
<b>66CB1-6</b>	4 x 12, 66CB connecting block	6	4-clip
DIMENSIONS:		2"H x 4.25"W x 1.4"D	

## 6 x 6 BLOCKS



A66B4-3

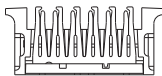


6-clip

PART#	DESCRIPTION	PAIR CAPACITY	TERMINAL
<b>A66B4-3</b>	6 x 6, 66B connecting block	3	6-clip
DIMENSIONS:		2.4"H x 2.8"W x 1.2"D	



A66B6-3

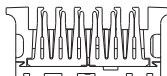


6-clip

PART#	DESCRIPTION	PAIR CAPACITY	TERMINAL
<b>A66B6-3</b>	6 x 6, 66B connecting block, includes a snap-on cover	3	6-clip
DIMENSIONS:		3.5"H x 3.5"W x 1.25"D w/cover	



A66B3-6



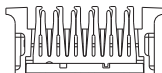
3-clip

PART#	DESCRIPTION	PAIR CAPACITY	TERMINAL
<b>A66B3-6</b>	6 x 6, 66B connecting block, includes a snap-on cover	6	3-clip
DIMENSIONS:		3.5"H x 3.5"W x 1.25"D w/cover	

## 6 x 12 Blocks



66B1-6

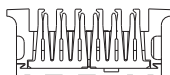


6-clip

PART#	DESCRIPTION	PAIR CAPACITY	TERMINAL
<b>66B1-6</b>	6 x 12, 66B connecting block	6	6-clip
DIMENSIONS:		3.9"H x 2.8"W x 1.2"D	



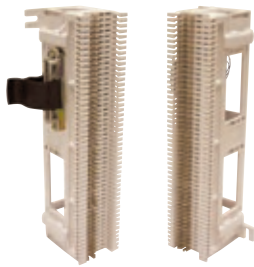
66B1-12



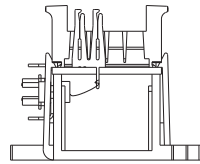
6-clip

PART#	DESCRIPTION	PAIR CAPACITY	TERMINAL
<b>66B1-12</b>	6 x 12, 66B connecting block	12	3-clip
DIMENSIONS:		3.9"H x 2.8"W x 1.2"D	

## PRE-WIRED 66M2 CONNECTING BLOCKS



66M2-3W



2-clip

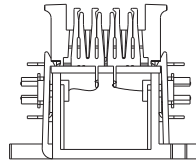
These are connectorized quick connect blocks designed for rapid installation of key telephone systems, PBX systems, cables and other low voltage terminal equipment.

- Available with female connectors, designed for top cable entry
- Pre-wired to the 25-pair connectors on the side

PART#	DESCRIPTION	PAIR CAPACITY	TERMINAL
<b>66M2-3W</b>	One female 25-pair connector	25	2-clip



66M2-5W



2-clip

PART#	DESCRIPTION	PAIR CAPACITY	TERMINAL
<b>66M2-5W</b>	Two female 25-pair connectors	50	2-clip

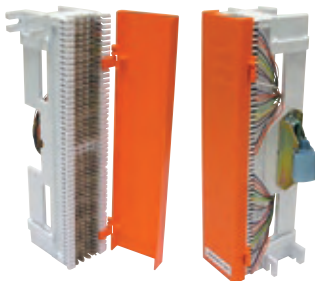
## CONNECTORIZED NETWORK INTERFACE JACKS



Provides clear demarcation between the telephone company and the customer-owned equipment.

- Furnished with an attached hinged cover
- Fulfills FCC requirement for a registered interface for connection of customer terminal equipment to the network

PART#	DESCRIPTION	CONNECTING ARRANGEMENT	PAIRS	TERMINAL
<b>AJK-700A-66-B1-25</b>	Ideal for most installations, this 66 terminal block consists of a RJ21X female connector pre-wired to the right side.	RJ21X	25	2-clip



PART#	DESCRIPTION	CONNECTING ARRANGEMENT	PAIRS	TERMINAL
<b>AJK-700B-66-B1-12</b>	This 66 terminal block consists of a RJ71C self-shorting female connector pre-wired to the right side column of the block, and provides automatic circuit continuation between the network and equipment when disconnecting ancillary equipment.	RJ71C	12	2-clip

## 66C CONNECTING BLOCK WITH HOUSING



A66C2-16

Each block is mounted on a metal base for mounting directly to walls and includes a distribution ring for dressing of cable.

- Provides termination of 16 incoming pairs

PART#	DESCRIPTION	PAIR CAPACITY	TERMINAL
<b>A66C2-16</b>	4 x 32, 66C connecting block, equipped with metal housing	16	4-clip

DIMENSIONS: 10"H x 5"W x 2.5"D



## ➔ 66 ACCESSORIES

### BRIDGING CLIP

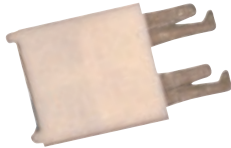


1127-A1

These clips can be used to bridge terminals on a block having two 2-clips or two 3-clips across a row.

PART#	DESCRIPTION	DIMENSIONS
<b>1127-A1</b>	66 block bridging clip	0.5"W x 0.25"H

### CAPACITY EXPANDING BLOCK ADAPTERS



183A2

These can be installed on every row but not side by side on a 66 connecting block to expand capacity. This adapter is not for use on CAT5 rated 66M1-50 blocks.

- Provides additional connections without interfering with already connected wires
- Provides positive insulation from one row to the adjacent row

PART#	DESCRIPTION
<b>183A3</b>	66 block adapter, 1 single quick clip
<b>183A2</b>	66 block adapter, 1 double quick clip

### COVERS : PROTECTIVE



For use with 66B and 66M connecting blocks.

- Self-extinguishing transparent plastic
- Snaps on for convenience

PART#	DESCRIPTION	DIMENSIONS
<b>66BC6</b>	Transparent cover for 6 x 50, 66B blocks	12.63"H x 3"W x 0.36"D
<b>66MC-4</b>	Transparent cover for 4 x 50, 66M blocks	10"H x 2.3"W x 0.29"D



### COVERS : HINGED




031709-97

For use with 66M connecting blocks.

- Self-extinguishing plastic

PART#	DESCRIPTION	DIMENSIONS
<b>031709-97</b>	Hinged cover	10"H x 2.26"W x 0.5"D

COLOR:  Orange

\* Additional colors may be available by request.

### 66 BLOCK APPARATUS BOXES



A115C1

A115D1

Used to terminate and fan out horizontal distribution cable.

- Furnished with a snap-on cover, distribution rings and mounting hardware
- These offer greater flexibility where space is limited

PART#	DESCRIPTION	DIMENSIONS
<b>A115C1</b>	Fits one 4 x 50 or 6 x 50 block	17.25"W x 5.2"H x 2.5"D
<b>A115D1</b>	Fits two 4 x 50 or 6 x 50 blocks	17.25"H x 9.25"W x 2.5"D

## BACKBOARDS

Used to mount 66 type connecting blocks and for horizontal jumper runs.

- Available in several different sizes and colors for identification of functional areas in cross-connect fields
- 66M1 -50 blocks ordered separately



**A183A1**

PART#	DESCRIPTION	DIMENSIONS
<b>A183A1</b>	200-pair capacity via four 66M1 -50 blocks, equipped with four 89B brackets	20"H x 8.5"W

COLOR:  Blue



**A183B1**

PART#	DESCRIPTION	DIMENSIONS
<b>A183B1</b>	400-pair capacity via eight 66M1 -50 blocks, equipped with eight 89B brackets	20"H x 17"W

COLOR:  Blue

PART#	DESCRIPTION	DIMENSIONS
<b>A183B2</b>	400-pair capacity via eight 66M1 -50 blocks, equipped with eight 89B brackets	20"H x 17"W

COLOR:  Green



**A183C1**

PART#	DESCRIPTION	DIMENSIONS
<b>A183C1</b>	100-pair capacity via two 66M1 -50 blocks, equipped with two 89B brackets	10"H x 8.5"W

COLOR:  Blue



**A187A1**

PART#	DESCRIPTION	DIMENSIONS
<b>A187A1</b>	Wire management backboard; equipped with eight A20A distributing posts/spools and 2 distributing rings	6.6"H x 8.5"W

COLOR:  White



**A187B1**

PART#	DESCRIPTION	DIMENSIONS
<b>A187B1</b>	Wire management backboard; equipped with eight A20A distributing posts/spools and 4 distributing rings	6.63"H x 17"W

COLOR:  White

## 66 BLOCK MOUNTING BRACKETS

- Durable self-extinguishing thermoplastic
- Mounting holes are provided for use in a variety of mounting options



89D

A89B



66B8-10

PART#	DESCRIPTION	
<b>89D</b>	For use with 66M1-25 and 66M1-50 blocks	c(UL)us
<b>A89B</b>	For use with 66M1-25 and 66M1-50 blocks	

PART#	DESCRIPTION
<b>66B8-10</b>	For use with 66B blocks

## CABLE MANAGEMENT : WIRE AND CABLE HANGERS



66146

PART#	DESCRIPTION	DIMENSIONS
<b>66145</b>	Wall mounting	4.12"D x 2.5"H
<b>66146</b>	Wall mounting	3.8"D x 5.87"H



606P

PART#	DESCRIPTION
<b>606P</b>	Organizer ring, clips on side of A89B or 89D bracket

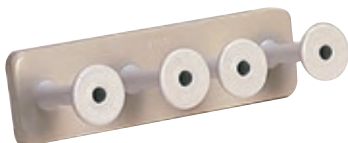
## CABLE MANAGEMENT : WIRE DISTRIBUTION SPOOLS AND MANAGEMENT FRAMES

- Provides control and dressing of distribution cables and jumper wires
- Allows rapid and easy access for moves and changes



A20A

PART#	DESCRIPTION
<b>A20A</b>	Spool without screw
<b>A20B</b>	Spool with #10 wood screw
<b>A20C</b>	Spool with #12-24 machine screw

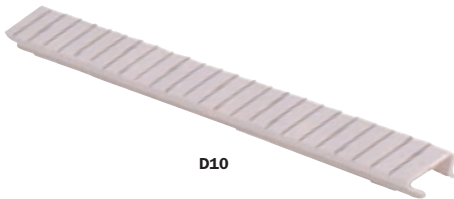


A198A

PART#	DESCRIPTION	DIMENSIONS
<b>A198A</b>	Management frame with 4 spools	2.4"H x 8.5"W

## DESIGNATION STRIPS

- Designated for use on most 66M or 66B type connecting blocks to identify the circuits terminated on the block
- Strips are installed by snap-fitting to the side of the block



D10

PART#	DESCRIPTION
<b>D10</b>	Designation strip for 66M connecting block
<b>D13</b>	Designation strip for 66B connecting block

## TEST APPARATUS CONNECTOR

- Provides a fast, safe access to any pair of quick-clip contacts in a 66 type block
- The TAC (test apparatus connector) grips the contact firmly to prevent annoying disconnection from the line being tested

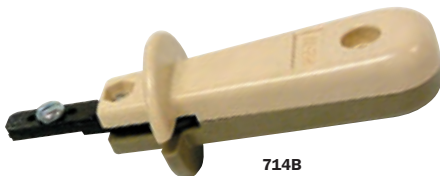


284-1

PART#	DESCRIPTION
<b>284-1</b>	Apparatus test connector

## TERMINATING TOOLS

Designed for terminating 66 type quick-connect blocks, simply place the wire in position, set the tool over the split terminal and with slight pressure push the wire into the terminal. The blade will cut off the excess wire automatically, reducing a termination step.



714B

PART#	DESCRIPTION
<b>714B</b>	66 Style termination tool

## TERMINATING TOOLS

The 814B impact tool is designed for termination of 22-26 AWG station wire on 110 or 66 type terminations. Spring-loaded and fully adjustable. This tool is ideal when working with wires of varying thickness. Reversible Termination Blade can terminate and cut off excess wire or terminate only.

- Spring loaded feature provides consistent connections
- Replacement blades available for 110 and 66 clip style terminations



814B

PART#	DESCRIPTION
<b>814B</b>	Automatic impact tool
<b>81401-110-88</b>	Replacement blade for 814B tool, 110 clip style
<b>81401-66</b>	Replacement blade for 814B tool, 66 clip style





# DSL LINE CONDITIONERS®

## ➔ DSL CONTENT OVERVIEW

Addressing the challenges created by DSL broadband technology deployment's in the home, Suttle's Line Conditioners® filter out any erratic impedances from telephone equipment, delivering reliable high bandwidth DSL transmission capabilities. Suttle DSL Line Conditioners® are customer installable and should be used for each active phone line to insure uninterrupted voice and broadband transmission.

### p81 **DSL SPLITTERS**

*DSL Splitters allow one line of combined voice and data communications to be split at the customer premise into two separate signals.*

### p82 **INLINE FILTERS**

*Suttle's inline filters isolate telephone equipment impedances by connecting between the wall jack and voice device to provide a single filtered jack for one or two lines of voice device communications.*

### p83 **FLUSH MOUNT FILTERS**

*Available with or without an auxiliary DSL jack, these stylish faceplates provide one or two filtered lines of voice device communications in a design sure to match any décor.*

### p84 **WALL MOUNT FILTERS**

*Designed to mount between wall mount telephone and wall mount jack, Suttle's wall mount filters provide an unfiltered DSL connection plus one or two filtered lines for voice device communications.*

### p84 **DSL TEST KITS**

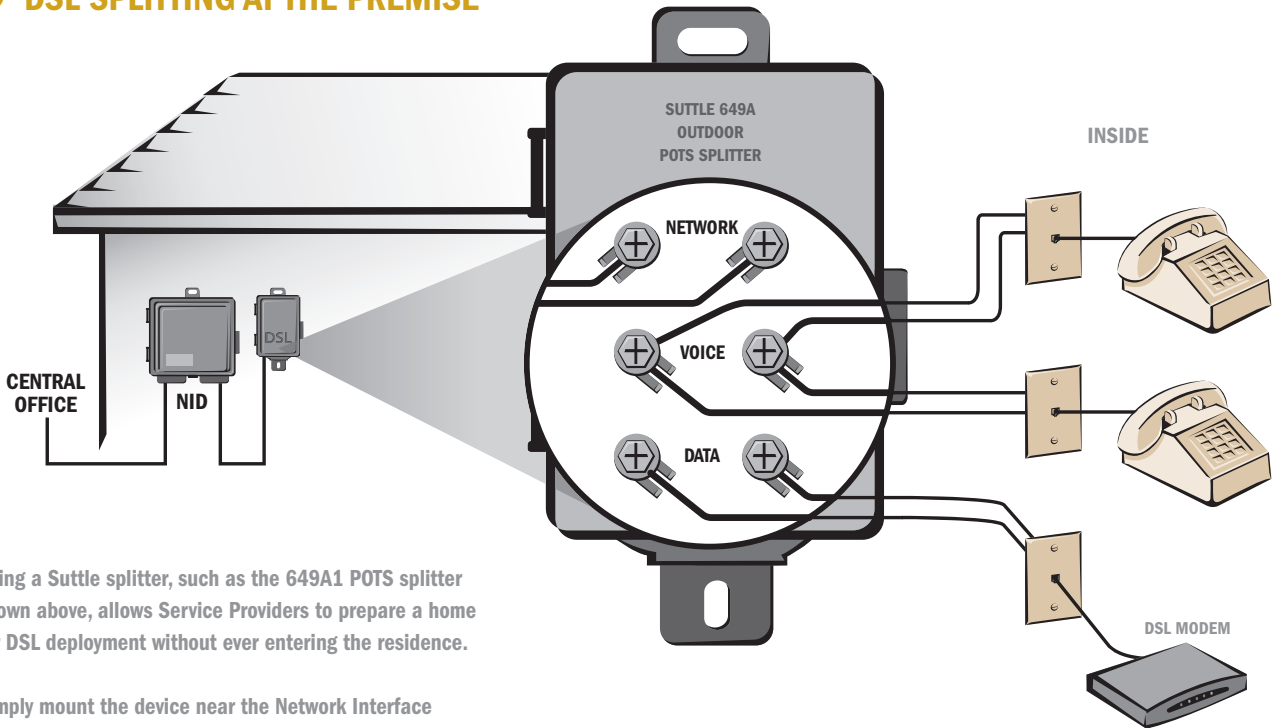
*The DSL Test Kit provides testing without interruption to the DSL connection. The hand-held device is available with test cords of varying length.*



# DSL APPLICATION

Suttle's line of DSL filtering products provides a wide variety of deployment options for service providers and end-users alike. Whether your deployment strategy involves filtering the home or business at the demarcation point, or if you decide to filter individual POTS devices, Suttle has a certified filtering product to help you get connected.

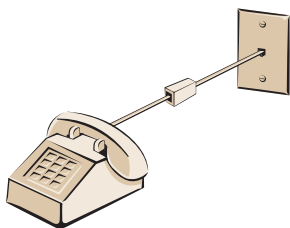
## DSL SPLITTING AT THE PREMISE



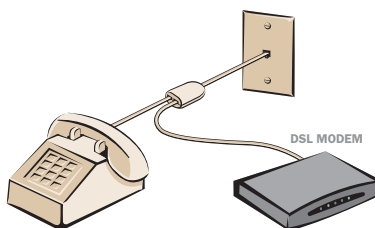
Using a Suttle splitter, such as the 649A1 POTS splitter shown above, allows Service Providers to prepare a home for DSL deployment without ever entering the residence.

Simply mount the device near the Network Interface Device (NID) and make the connections as shown.

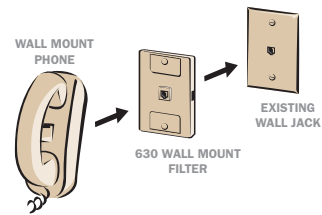
## USING MICROFILTERS



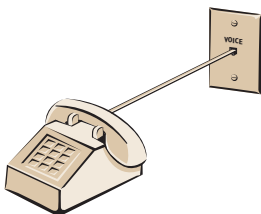
900 STYLE INLINE FILTER



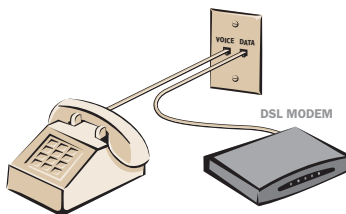
900 STYLE ADAPTER



630 WALL MOUNT FILTER



625LCC1 FLUSH MOUNT ADAPTER



625LCC2 FLUSH MOUNT ADAPTER

Microfilters are a cost-effective means of providing filtering at the residence without ever rolling a truck. Simply install a filter at each jack where a phone, FAX, caller ID, or other POTS device is installed.

That's all it takes to protect your DSL and voice devices from the interference created by high bandwidth DSL transmission.

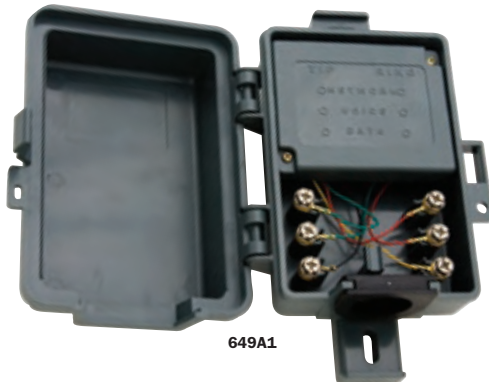
# DSL SPLITTERS

## OUTDOOR DSL POTS SPLITTER



The Outdoor DSL POTS Splitter is attached at the subscriber premise to split the network, voice, and data signals. Suttle DSL filters isolate telephone equipment impedances that interfere with ADSL communications.

- Outdoor housing for protection from environmental conditions
- Mounts to wall or conduit
- Terminals for Network, Voice, and Data



649A1

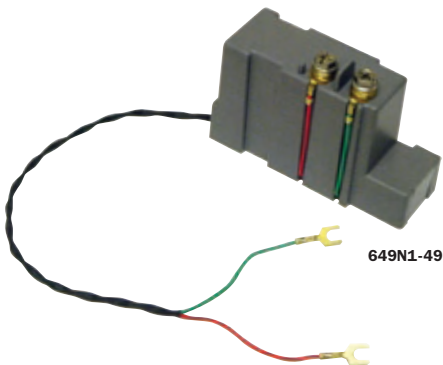
PART#	DESCRIPTION	DIMENSIONS
649A1	Outdoor DSL POTS Splitter	4.7"H x 3.3"W x 2.3"D

## DSL NID SPLITTER



The DSL NID Splitter Module is designed for use in a variety of Network Interface Devices (NID) at the subscriber premise. This device occupies one line module position within the NID providing POTS on one ADSL service line. The module is easy to install and can snap in and out of the NID with access to the network portion.

- Environmentally sealed
- Versatile design accommodates a variety of NIDs
- Maintenance test signature included



649N1-49

PART#	DESCRIPTION
649N1-49	Single line DSL NID splitter module

## DSL SPLITTER MODULE



The DSL Splitter module allows the phone and data signal to be split with one centrally based filter rather than with inline filters at every phone outlet location.



SAM-DSL

PART#	DESCRIPTION
SAM-DSL	DSL module filters voice signal from a voice module to eliminate the need for filtering at jack locations

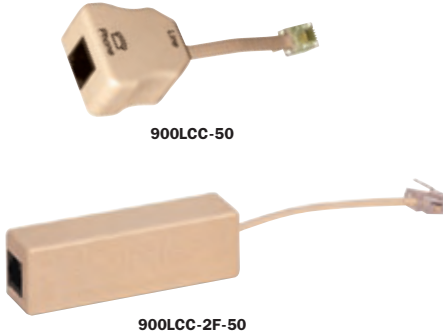
\* For use with SOHO Access™ Enclosures and Modules

# INLINE FILTERS

The Inline Filter connects between the wall jack and POTS device (e.g. phone, fax, answering machine, Caller ID) providing a single filtered jack for one or two lines of voice device communications. Suttle DSL filters isolate telephone equipment impedances that interfere with ADSL communications.

- Filters are available in one or two line filtering configurations
- Meets ANSI T1E1.421 standards for DSL filter compliance
- Customer installable

## 900 SERIES INLINE



Provides a single filtered jack for one or two lines of voice device communications.

PART#	DESCRIPTION	DIMENSIONS
<b>900LCC-50</b>	1-line filtered	1.3"L x 1.3"H x 0.8"D
<b>900LCC-2F-50</b>	2-lines filtered	3"L x 1"H x 0.8"D

COLOR: Ivory



## 900 SERIES ADAPTERS

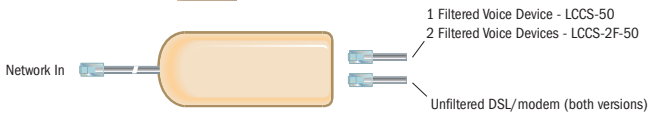


Provides both an unfiltered DSL jack for DSL connection and a filtered jack for one or two lines of voice device communications.



PART#	DESCRIPTION	DIMENSIONS
<b>900LCCS-50</b>	1-line filtered, auxiliary DSL jack	1.3"L x 1.8"W x 0.9"H
<b>900LCCS-2F-50</b>	2-lines filtered, auxiliary DSL jack	1.6"L x 2.8"W x 0.9"H

COLOR: Ivory

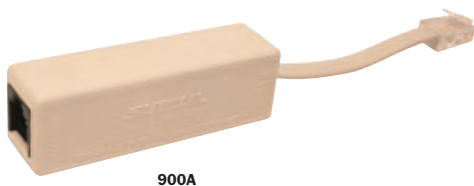


## 900 SERIES ALARM DSL FILTER



The 900A alarm filters are designed to allow residential alarm panels to take control of the main phone line via the RJ31X or RJ38X connector. The 900A blocks DSL service to the alarm panel while providing uninterrupted DSL service to the household telephone wiring. This inline filter is designed to plug into a RJ31X jack, including other similar jacks up to RJ38X.

- Customer installable
- Automated alarm dialer compatible



PART#	DESCRIPTION	DIMENSIONS
<b>900A</b>	Inline DSL alarm filter	3.0"L x 1.0"H x 0.8"D

COLOR: Ivory



# FLUSH MOUNT FILTERS

The flush mount filters are wired directly to the homes internal wiring system providing one or two lines for voice device communications (e.g., phone, fax, answering machine, Caller ID box). Adapter style jacks provide the same with an unfiltered DSL jack for direct connection for DSL communications. These filters eliminate the need for inline or wall mount filtering devices providing a smooth sleek design that matches electrical faceplates.

- Install without mounting brackets
- Meets ANSI T1E1.421 standards for DSL filter compliance
- Smooth, sleek faceplate design matches electrical faceplates

## SIMPLEX, SMOOTH FINISH, FLUSH MOUNT FILTER



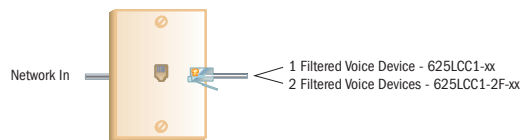
Provides a single filtered jack for one or two lines of voice device communications in a smooth finish, flush mount design.



625LCC1-xx

PART#	DESCRIPTION	DIMENSIONS
<b>625LCC1-xx</b>	1-Line filtered, screw terminals	4.6"H x 2.8"W x 0.2"D
<b>625LCC1-2F-xx</b>	2-Lines filtered, screw terminals	4.6"H x 2.8"W x 0.2"D

COLORS (-xx):  Electrical Ivory = (52)  Light Almond = (64)  White = (85)



## DUPLEX EAST/WEST, SMOOTH FINISH, FLUSH MOUNT ADAPTER



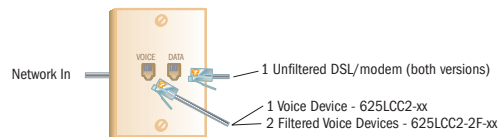
Provides both an unfiltered DSL jack for DSL connection and a filtered jack for one or two lines of voice device communications in a flush mount design.



625LCC2-xx

PART#	DESCRIPTION	DIMENSIONS
<b>625LCC2-xx</b>	1-Line filtered, auxiliary DSL jack, screw terminals	4.6"H x 2.8"W x 0.2"D
<b>625LCC2-2F-xx</b>	2-Lines filtered, auxiliary DSL jack, screw terminals	4.6"H x 2.8"W x 0.2"D

COLORS (-xx):  Electrical Ivory = (52)  Light Almond = (64)  White = (85)



# WALL MOUNT FILTERS

## WALL MOUNT ADAPTER



The Wall Mount DSL Adapter mounts to an existing wall mount phone jack providing an unfiltered jack for your DSL connection plus one or two filtered lines for voice device communications (e.g. phone, fax, answering machine, Caller ID box) via two auxiliary phone jacks. Suttle DSL filters isolate telephone equipment impedances that interfere with ADSL communications. Features mounting lugs for wall mount phones.

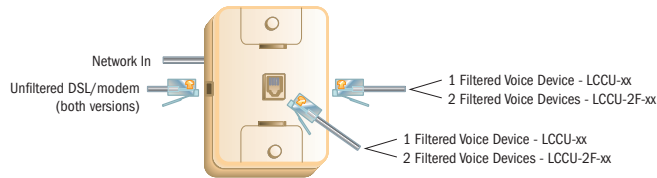
- Customer installable
- Securely snaps over existing wall jack
- The single line version provides unfiltered access to line two in all ports
- Meets ANSI T1E1.421 standards for DSL filter compliance



630LCCU-xx

PART#	DESCRIPTION	DIMENSIONS
<b>630LCCU-xx</b>	1-line filtered, 2 voice jacks, auxiliary DSL jack	4.5"H x 3.0"W x 0.7"D
<b>630LCCU-2F-xx</b>	2-lines filtered, 2 voice jacks, auxiliary DSL jack	4.5"H x 3.0"W x 0.7"D

COLORS (-xx): Ivory = (50) Elec. Ivory = (52) Lt. Al. = (64) White = (85)



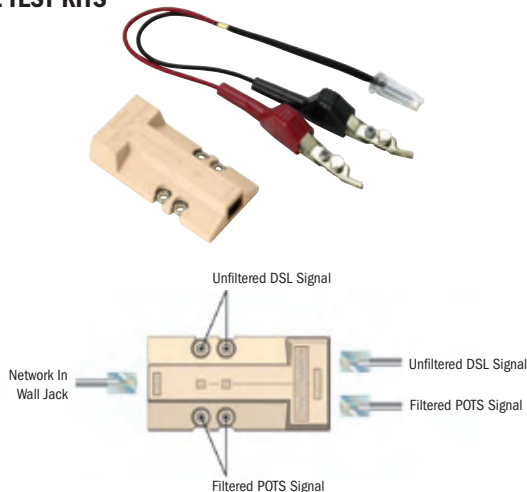
## DSL TEST KITS

The Suttle DSL test unit allows an active DSL line to be tested for POTS (voice) verification without interfering with the DSL connection. The hand-held device has an RJ-14 modular jack for the input connection. The input can be made with a double-ended modular cord or with a universal test cord equipped with a modular plug on one end and test clips on the other as used with a typical Butt set.

The connection for testing is provided via two RJ-14 modular jacks, labeled "Non-Filtered" for the DSL port and "Filtered" for the POTS port, or through the test access point terminals for use with a test cord.

- Provides testing without interfering with the DSL connection
- Available with Test cords of varying length

### DSL TEST KITS



PART#	DESCRIPTION	DIMENSIONS
<b>DSLTEST-1</b>	DSL test unit	3.61"L x 1.84"W x 0.85"H

PART#	DESCRIPTION
<b>DSLTESTKIT1</b>	DSL test unit with 1 ft. test cord
<b>DSLTESTKIT3</b>	DSL test unit with 3 ft. test cord
<b>DSLTESTKIT7</b>	DSL test unit with 7 ft. test cord

PART#	DESCRIPTION
<b>DSLTESTCORD1</b>	1 ft. test cord
<b>DSLTESTCORD3</b>	3 ft. test cord
<b>DSLTESTCORD7</b>	7 ft. test cord

# DSL FREQUENTLY ASKED QUESTIONS

## **Q: Why are ADSL line conditioners needed?**

A: With ADSL service, phone lines are used to send and receive voice and data on the same line. The line conditioners enable simultaneous use of Internet and voice by isolating the noise caused by analog telephone devices such as (telephone, fax machines, answering machines and cable TV pay per view dial ups) from the ADSL signal.

## **Q: What do I do with the line conditioners I received?**

A: Disconnect the telephone from the wall jack and plug the line conditioner into the wall jack, connect the telephone into the phone jack on the filter. Your telephone or telephone device is now isolated from the ADSL modem.

## **Q: Where should I install the line conditioners?**

A: Install a line conditioner everywhere an analog telephone device is used within the home or office. Analog phone devices include: telephones, fax machines, analog modems, caller ID and answering machines.

## **Q: What do I do if I have two line phones and do not know which line is carrying the ADSL signal?**

A: In-line and Wall mount line conditioners that filter both lines 1 and 2 are available. Install the line conditioner into the phone jack and plug the phone into the line conditioner.

## **Q: How do I install a line conditioner on my wall-mount telephone?**

A: The 630 line conditioner is designed so no tools are needed. Simply remove the telephone from the wall-plate and plug the 630 wall mount line conditioner into the wall jack. The unique toggle design on the 630 line conditioner locks the unit onto the existing wall mount jack. Snap the telephone back onto the filter, align the key holes, slide the phone down into place and you are finished.

## **Q: Should I connect a line conditioner onto my DSL modem?**

A: No, if connected directly to the modem it would block access.

## **Q: Can I use a filter for a phone that has call waiting?**

A: Yes, the line conditioner does not affect telephone service.

## **Q: Will the line conditioner work with all forms of DSL?**

A: The line conditioner is designed to function with ADSL, ADSL2, and ADSL2+, G.lite and full rate G.dmt formats.





# FIBER

## ➔ FIBER CONTENT OVERVIEW

Suttle incorporates the latest technology into its fiber products. Our product line includes the revolutionary Terminator™ Field Termination System, QuickTerm connectors, assemblies, and a variety of other complementary products to meet your fiber connectivity needs.

### p88 **FIELD TERMINATION PRODUCTS**

*Providing an incredibly quick and easy field termination solution, the Terminator System is a polish-free fiber system consisting of the Terminator Universal Cleave Tool and Terminator Connectors. QuickTerm1 and 2 and MTRJ connectors are also available depending on your cable requirements.*

### p92 **BULKHEAD INTERCONNECT ADAPTERS**

*Adapters can be used in both singlemode and multimode applications to provide proper ferrule alignment. Available for use with AFP and ATC fiber panels, these adapters meet IEC, Telcordia, and TIA/EIA performance standards.*

### p93 **FIBER ASSEMBLIES**

*Multimode and singlemode and duplex pre-terminated fiber assemblies are inspected for flaws and tested to meet industry standard requirements. Custom configurations are available upon request.*

### p94 **ULTRASPLICE**

*Available for use in any combination of buffer sizes, the Ultrasplice allows singlemode and multimode splicing and requires no fixtures or special tools.*

### p94 **TERMINATION KITS/ASSEMBLIES**

*Suttle's portable termination kits include all tools necessary for fiber connector terminations. The kit is designed for use with ST, SC, and FC connectors. Universal accessories and consumable refill kits can also be found here.*

# FIELD TERMINATION PRODUCTS

## TERMINATOR® FIELD TERMINATION SYSTEM

Providing an incredibly quick and easy field termination solution, the terminator system is a polish-free fiber termination system consisting of the Terminator Universal Cleave Tool and Terminator Connectors.

The Terminator Universal Cleave Tool cleaves off the fiber at the ferrule tip of multimode ST, SC, and FC connectors, eliminating the need for polishing while maintaining continuous glass to the end of the ferrule.

- The most efficient and consistent polish-free termination system in the industry
- The terminator is the only polish-free system that employs traditional uninterrupted glass to the ferrule tip
- Terminates with an exceptionally low dB loss
- 25-year warranty when tested and installed by Suttle certified installers
- Crimp, cleave, and leave in three minutes or less
- No curing oven or polishing required

Suttle's Terminator connectors are designed specifically for use with the terminator tool. The connectors have multimode zirconia ceramic ferrules and are compatible with 250 or 900 micron buffered cables and 50/125 and 62.5/125 fiber.

- Three step crimp securing buffer, optical fiber, strength member and jacket of cable
- One step crimp when using 900 micron boot (distribution type fiber)
- Terminator connectors for use with the universal cleave tool ATCF-TR1-U\*

\* Use of any other connectors invalidates all warranties and may cause permanent damage to the tool.

### TERMINATOR TOOL



ATCF-TR1-U

PART#	DESCRIPTION
ATCF-TR1-U	Terminator universal cleave tool. For use with Suttle terminator style connectors only. Use of any other connectors with this tool invalidates all warranties and may cause permanent damage to the tool.

## TERMINATOR CONNECTORS (MULTIMODE ONLY)

### ST TERMINATOR CONNECTORS



ASTA-02-C-D-G

ASTA-02-C-T-G

PART#	DESCRIPTION
ASTA-02-C-B-G	250 micron buffer, unjacketed (loose tube)
ASTA-02-C-D-G	900 micron buffer, unjacketed (distribution type)
ASTA-02-C-T-G	900 micron, 3.0 mm jacket
ASTA-02-C-P-G	900 micron, 2.5 mm jacket

### SC TERMINATOR CONNECTORS



ASCA-TR-T-10

PART#	DESCRIPTION
ASCA-TR-B-10	250 micron, unjacketed (loose tube)
ASCA-TR-D-10	900 micron, unjacketed (distribution type)
ASCA-TR-T-10	900 micron, 3.0 mm jacket

## FC TERMINATOR CONNECTORS

AFCA-02-T-G



PART#	DESCRIPTION
<b>AFCA-02-T-G</b>	900 micron buffer, unjacketed (distribution type) or 3.0 mm jacket

## TERMINATOR ACCESSORIES/KITS

ATCF-SY-QS



PART#	DESCRIPTION
<b>ATCF-SY-QS</b>	Pre-loaded syringe with needles (200 connectors/tube)

ATCC-UNV



PART#	DESCRIPTION
<b>ATCC-UNV</b>	Universal crimp tool, ratcheted, size 1-4 hex crimp cavities

### IN DEPTH

Ratchet feature on the crimp tool ensures a proper crimp on the connector back post. Provides 1-4 size hex crimp cavities for simple crimping of Suttle ST, SC, & FC connectors.

- Ergonomic design is easier on hands
- Longer handle means less force required for crimping
- Ratchet feature ensures a proper crimp every time

PART#	DESCRIPTION
<b>AFTK-TR-U</b>	Express terminator kit. Contents include: universal terminator cleave tool, universal crimp tool, jacket stripper, buffer stripper (125-150 micron), kevlar scissors. See <i>component part numbers for this kit on page 94</i> .

AFTK-TR1-KIT



PART#	DESCRIPTION
<b>AFTK-TRMT-KIT</b>	MTRJ field terminator kit. Contents include: terminator tool, warranty card, click terminator kit case, universal terminator label, fiber US video, MTRJ cam tool FIB CARD, score-flex cleaver, cam assembly tool, permanent black marker, 900mm MTRJ/SC/ST/FC template, visual fault locator laser, cam assembly - MTRJ adapter, MTRJ jumper ST. See <i>component part numbers for this kit on page 95</i> .

PART#	DESCRIPTION
<b>AFTK-TR1-KIT</b>	Full terminator kit. Contents include: universal terminator cleave tool, universal crimp tool, wipes, isopropyl alcohol, t-type jacket stripper, kevlar scissors, buffer stripper (125-150 micron), cleaning wire, dust blaster kit, continuity detector, inspection microscope. See <i>component part numbers for this kit on page 94</i> .

## ➔ QUICKTERM 1™ CONNECTORS

Suttle's QuickTerm™ ST® epoxyless style connectors are constructed of an all metal body with a stainless steel ferrule for use with multimode cable. This design uses a 4-step crimping process to secure buffer, optical fiber, strength member and jacket. *No adhesive required.*

- Mates with all standard ST style connectors and compatible with all 250 and 900 micron buffer cables
- No adhesives required
- Epoxyless design allows assembly within 2-3 minutes
- A low cost crimp tool is utilized, eliminating the need for an expensive curing oven
- Once assembled, the ST connectors boast an extremely low dB loss of 0.25dB

### ST QT1 CONNECTORS



PART#	DESCRIPTION	FIBER TYPE	FERRULE
<b>ASTA-01-C-B</b>	250 micron buffer, unjacketed (loose tube)	Multimode	Stainless
<b>ASTA-01-C-D</b>	900 micron buffer, unjacketed (distribution type)	Multimode	Stainless
<b>ASTA-01-C-P</b>	900 micron buffer, 2.5 mm jacket	Multimode	Stainless
<b>ASTA-01-C-T</b>	900 micron buffer, 3.0 mm jacket	Multimode	Stainless

## ➔ QUICKTERM 2™ CONNECTORS

Suttle's QuickTerm2 ST, FC, and SC epoxyless style connectors with zirconia ceramic ferrules are designed for use with singlemode and multimode cable. The simple three-step crimp process provides a consistent quality termination with low dB loss and reduction of disposables.

- User friendly, saving time and money
- 2 to 3 minute termination time
- Extremely low dB loss
- Quick set adhesive
- No curing oven needed
- Multimode connectors accept both 50/125 micron and 62.5/125 micron fiber

### ST QT2 CONNECTORS



PART#	DESCRIPTION	FIBER TYPE	FERRULE
<b>ASTA-02-C-B2</b>	250 micron buffer, unjacketed (loose tube)	Multimode	Zirconia
<b>ASTA-02-C-D2</b>	900 micron buffer, unjacketed (distribution type)	Multimode	Zirconia
<b>ASTA-02-C-T2</b>	900 micron buffer, 3.0 mm jacket	Multimode	Zirconia



PART#	DESCRIPTION	FIBER TYPE	FERRULE
<b>ASTB-02-126-B2</b>	250 micron, buffer, unjacketed (loose tube)	Singlemode	Zirconia
<b>ASTB-02-126-D2</b>	900 micron buffer, unjacketed (distribution type)	Singlemode	Zirconia
<b>ASTB-02-126-T2</b>	900 micron buffer, 3.0 mm jacket	Singlemode	Zirconia



## SC QT2 CONNECTORS



ASCA-02-D2-10

PART#	DESCRIPTION	FIBER TYPE	FERRULE
<b>ASCA-02-B2-10</b>	250 micron, buffer, unjacketed (loose tube)	Multimode	Zirconia
<b>ASCA-02-D2-10</b>	900 micron buffer, unjacketed (distribution type)	Multimode	Zirconia
<b>ASCA-02-T2-10</b>	900 micron buffer, 3.0 mm jacket	Multimode	Zirconia



ASCB-02-T2-62

PART#	DESCRIPTION	FIBER TYPE	FERRULE
<b>ASCB-02-B2-62</b>	250 micron, buffer, unjacketed (loose tube)	Singlemode	Zirconia
<b>ASCB-02-D2-62</b>	900 micron buffer, unjacketed (distribution type)	Singlemode	Zirconia
<b>ASCB-02-T2-62</b>	900 micron buffer, 3.0 mm jacket	Singlemode	Zirconia
<b>ASCAPC-02-T2</b>	900 micron buffer, 3.0 mm jacket	Singlemode	Zirconia 8° angle

## SMA QT2 CONNECTORS

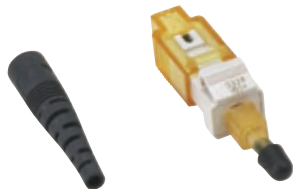


ASMA-22-C-T2

PART#	DESCRIPTION	FIBER TYPE	FERRULE
<b>ASMA-22-C-T2</b>	900 micron buffer, 3.0 mm jacket	140µm multimode	905 stainless
<b>ASMA-02-C-T2</b>	900 micron buffer, 3.0 mm jacket	125µm multimode	905 stainless

## MTRJ FIELD INSTALLABLE CONNECTORS

- Factory-installed fiber stub that is fully bonded in the ferrule
- Superior end face polish
- Installs in under two minutes



AMTA-62-P

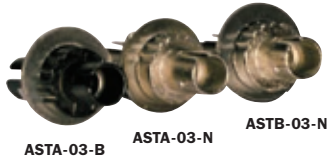
PART#	DESCRIPTION
<b>AMTA-62-P</b>	MTRJ, MM 62.5, Male, Field Mount

# BULKHEAD INTERCONNECT ADAPTERS

Suttle's bulkhead interconnect adapters are constructed with either phosphorous bronze or zirconia sleeves providing proper alignment for both singlemode and multimode applications. Packaging includes dust caps, press fit bushing, and a nut and lock washer to facilitate panel mounting.

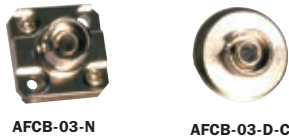
- Singlemode or Multimode fiber type
- Phosphor bronze or zirconia sleeves
- Meets IEC, Telcordia, and TIA/EIA performance standards
- For use with AFP and ATC fiber panels

## ST STYLE BULKHEAD INTERCONNECT ADAPTERS



PART#	DESCRIPTION	TYPE
<b>ASTA-03-B</b>	ST adapter, black nickel plating, phosphor bronze sleeve	MM or SM fiber
<b>ASTA-03-N</b>	ST adapter, bright nickel plating, phosphor bronze sleeve	MM or SM fiber
<b>ASTB-03-N</b>	ST adapter, bright nickel plating, zirconia sleeve	SM fiber

## FC BULKHEAD INTERCONNECT ADAPTERS



PART#	DESCRIPTION	TYPE
<b>AFCB-03-N</b>	FC adapter, bright nickel plating, phosphor bronze sleeve	MM or SM fiber
<b>AFCB-03-D-C</b>	FC adapter, bright nickel plating, zirconia sleeve	SM fiber

## SC BULKHEAD INTERCONNECT ADAPTERS



PART#	DESCRIPTION	TYPE	COLOR
<b>ASCAS-03-62</b>	SC simplex adapter, phosphor bronze sleeve	SM or MM fiber	blue
<b>ASCBS-03-62</b>	SC simplex adapter, zirconia sleeve	SM fiber	blue
<b>ASCAD-03-62</b>	SC duplex adapter, phosphor bronze sleeve	SM or MM fiber	blue
<b>ASCBD-03-62</b>	SC duplex adapter, zirconia sleeve	SM fiber	blue

## HYBRID ADAPTERS ST TO SC



PART#	DESCRIPTION	TYPE	COLOR
<b>ASCBS-03-62</b>	ST-SC duplex adapter, zirconia sleeve	SM fiber	blue
<b>ASCSTAD-03-10</b>	ST-SC duplex adapter, phosphor bronze sleeve	MM fiber	beige

# FIBER ASSEMBLIES

Suttle offers a wide range of high performance pre-terminated singlemode and multimode cable assemblies. Jumpers and pigtails are supplied in various lengths utilizing Suttle Fiber Solutions cable or cable specified by the customer.

Multimode (MM) and Singlemode (SM) simplex and duplex fiber optic jumpers utilize OFNR riser-rated 1- or 2-fiber 62.5/125µm, 50/125µm multimode, or 8.3/125µm singlemode cable that meets UL 1666 requirements.

Each connector on a fiber optic jumper assembly is visually inspected for flaws, and tested to meet industry standard requirements. Test reports are provided for each jumper assembly. Suttle offers a 15-year warranty on tested installations when installed by Suttle certified installers.

- 50/125µm multimode and Singlemode assemblies available
- Singlemode jumpers and pigtails feature an ultrapolish (UPC) with a minimum return loss of 55dB
- Available in a variety of connector styles and lengths
- Multimode jumper assemblies incorporate connectors with ceramic ferrules for precision and durability
- All connectors include protective dust caps
- Standard or custom configurations available

## STANDARD FIBER ASSEMBLY PATCH CORDS



PART#	DESCRIPTION	MODE	THICKNESS	LENGTH
<b>AU02-C-C/C-001M-S</b>	ST-ST	Multimode, Duplex	62.5	1 Meter
<b>AU02-C-C/C-003M-S</b>	ST-ST	Multimode, Duplex	62.5	3 Meter
<b>AU02-C-C/C-005M-S</b>	ST-ST	Multimode, Duplex	62.5	5 Meter
<b>AU02-C-C/MT-001M-S</b>	ST-MTRJ	Multimode, Duplex	62.5	1 Meter
<b>AU02-C-C/MT-003M-S</b>	ST-MTRJ	Multimode, Duplex	62.5	3 Meter
<b>AU02-C-C/MT-005M-S</b>	ST-MTRJ	Multimode, Duplex	62.5	5 Meter
<b>AU02-C-MT/MT-001MS</b>	MTRJ-MTRJ	Multimode, Duplex	62.5	1 Meter
<b>AU02-C-MT/MT-003MS</b>	MTRJ-MTRJ	Multimode, Duplex	62.5	3 Meter
<b>AU02-C-MT/MT-005MS</b>	MTRJ-MTRJ	Multimode, Duplex	62.5	5 Meter
<b>AU02-C-Z/C-001M-S</b>	SC-ST	Multimode, Duplex	62.5	1 Meter
<b>AU02-C-Z/C-003M-S</b>	SC-ST	Multimode, Duplex	62.5	3 Meter
<b>AU02-C-Z/C-005M-S</b>	SC-ST	Multimode, Duplex	62.5	5 Meter
<b>AU02-C-Z/MT-001M-S</b>	SC-MTRJ	Multimode, Duplex	62.5	1 Meter
<b>AU02-C-Z/MT-003M-S</b>	SC-MTRJ	Multimode, Duplex	62.5	3 Meter
<b>AU02-C-Z/MT-005M-S</b>	SC-MTRJ	Multimode, Duplex	62.5	5 Meter
<b>AU02-C-Z/Z-001M-S</b>	SC-SC	Multimode, Duplex	62.5	1 Meter
<b>AU02-C-Z/Z-003M-S</b>	SC-SC	Multimode, Duplex	62.5	3 Meter
<b>AU02-C-Z/Z-005M-S</b>	SC-SC	Multimode, Duplex	62.5	5 Meter

Note: All MTRJ connectors are male. Contact Customer Service or visit us on the web at [www.suttleonline.com](http://www.suttleonline.com) for information regarding custom fiber assembly options.

# ULTRASPLICE™

The ULTRASplice™ is a fully mechanical fiber optic splice for singlemode and multimode splicing. No fixtures or special tools are required and they are tunable and reusable. An uncovered glass capillary allows visual inspection for proper fiber location. The ULTRA splice can be used in any combination of buffer sizes.



AUS-126

PART#	DESCRIPTION
AUS-126	Singlemode splice
AUS-125	Multimode splice

## TERMINATION KITS / ASSEMBLIES

### TERMINATOR KITS

#### TERMINATOR UNIVERSAL TERMINATION KIT

Suttle's universal termination kit is used for the termination of Terminator™ series ST, SC and FC connectors.



AFTK-TR1-KIT

PART#	DESCRIPTION
<b>AFTK-TR1-KIT</b>	Full terminator universal termination kit
<i>The AFTK-TR1-KIT terminator kit includes:</i>	
<b>ATCF-TR1-U</b>	Universal terminator cleave tool
<b>ATCC-UNV</b>	Universal crimp tool
<b>ATCF-KW</b>	Wipes
<b>ATCF-IA</b>	Isopropyl alcohol, 4oz. bottle
<b>ATCF-TTS</b>	Jacket stripper
<b>ATCF-SC</b>	Kevlar scissors
<b>ATCF-US-150</b>	Buffer stripper (125-150 micron)
<b>ATCF-CW</b>	Cleaning wire
<b>ATCF-DB</b>	Dust blaster kit
<b>ATCF-LS-U</b>	Fiber optic continuity detector
<b>ATCF-MS</b>	Inspection microscope
<b>ATCF-TC1</b>	Fiber trash can for disposing of scrap fiber
<b>FIBCARD</b>	Termination information card
<b>FIBVIDUS</b>	Termination instruction video

PART#	DESCRIPTION
<b>AFTK-TR-U</b>	Express terminator universal termination kit
<i>The AFTK-TR-U terminator kit includes:</i>	
<b>ATCF-TR1-U</b>	Universal terminator cleave tool
<b>ATCC-UNV</b>	Universal crimp tool
<b>ATCF-TTS</b>	Jacket stripper
<b>ATCF-US-150</b>	Buffer stripper (125-150 micron)
<b>ATCF-SC</b>	Kevlar scissors
<b>FIBCARD</b>	Termination information card
<b>FIBVIDUS</b>	Termination instruction video

## MTRJ FIELD TERMINATION KIT

- Provides the tools to perform MTRJ, ST, SC, FC field terminations
- No epoxy or polishing
- Direct termination eliminates unnecessary cable slack and storage



AFTK-TRMT-KIT

PART#	DESCRIPTION
<b>AFTK-TRMT-KIT</b>	MTRJ Field termination kit
<i>The AFTK-TRMT-KIT terminator kit includes:</i>	
<b>098042-00</b>	Warranty Card
<b>098061-03</b>	Click Terminator Kit Case
<b>108007-00</b>	Universal Terminator Label
<b>FIBVIDUS</b>	Fiber US Video
<b>108009-00</b>	MTRJ Cam Tool FIBCARD
<b>ATCF-SFC</b>	Score-Flex Cleaver
<b>ATCF-CAT</b>	Cam Assembly Tool
<b>098068-00</b>	Permanent Black Marker
<b>108008-00</b>	900µm MTRJ/SC/ST/FC Template
<b>ATCF-VFL</b>	Visual Fault Locator Laser
<b>ATCF-ADPMTRJ</b>	Cam Assembly - MTRJ Adapter
<b>AU02-C-C/MT-001M-SMTRJ</b>	Jumper ST

## QUICKTERM™ TERMINATION KIT (FOR QT1 OR QT2 STYLE CONNECTORS)

Suttle's quick term termination kit is used for the termination of QuickTerm1, QuickTerm2 connectors. Includes all tools and materials necessary for fiber connector termination.



AFTK-QT-UNV

PART#	DESCRIPTION
<b>AFTK-QT-UNV</b>	QuickTerm termination kit for termination of QT1 and QT2 style connectors
<i>The AFTK-QT-UNV includes:</i>	
<b>ATCC-UNV</b>	Universal crimp tool
<b>ATCF-FX-UNV</b>	Universal polishing fixture
<b>ATCF-PF-12</b>	12 micron polishing film
<b>ATCF-PF-3</b>	3 micron polishing film
<b>ATCF-PF-1</b>	1 micron polishing film
<b>ATCF-PF-.3</b>	.3 micron polishing film
<b>ATCF-KW</b>	Wipes
<b>ATCF-IA</b>	Isopropyl alcohol, 4oz. bottle
<b>ATCF-TTS</b>	Jacket stripper
<b>ATCF-SC</b>	Kevlar scissors
<b>ATCF-US-150</b>	Buffer stripper (125-150 micron)
<b>ATCF-PP</b>	Polycarbonate polishing plate
<b>ATCF-RP</b>	Rubber pad 5" x 5"
<b>ATCF-CW</b>	Cleaning wire
<b>ATCF-DB</b>	Dust blaster kit
<b>ATCF-ST-1</b>	Scribe tool
<b>ATCF-LS-U</b>	Fiber optic continuity detector
<b>AT-221</b>	4 compartment box
<b>ATCF-TC1</b>	Fiber Trash Can for disposing of scrap fiber
<b>FIBCARD</b>	Process instruction cards
<b>FIBVIDUS</b>	Instructional video



## QUICK SET ADHESIVE KIT (FOR QT2 STYLE CONNECTORS)

This kit is required for termination of all QT2 style connectors.

- Designed specifically for bonding of glass to ceramic
- Curing time is about 3 seconds after the accelerator is applied



ATCF-QT2-KIT

PART#	DESCRIPTION
<b>ATCF-QT2-KIT</b>	Quick set adhesive kit
<i>The kit includes:</i>	
<b>ATCF-AC</b>	Accelerator
<b>ATCF-SY-QS</b>	Pre-loaded syringe with needles (sufficient for 200 connectors)

## ULTRA POLISHING KIT

The revolutionary Suttle ultra polishing kit provides a low cost solution for polishing of singlemode ST, SC, FC, SCAPC, and FCAPC connector styles. Use of high quality materials provides tight control of radius of curvature, apex offset and fiber height. Performance results meet or exceed TIA, IEC/Telcordia standards.

- This portable, low cost kit, when used properly would outperform expensive polishing machines
- For use on PC and 8° APC connector styles
- PC connector's typical Return loss is < -55.00dB using this kit
- APC connector's typical Return loss is < -75.00dB using this kit



AFTK-PK-xx

PART#	DESCRIPTION
<b>AFTK-PK-xx</b>	Ultra Polishing Kit (Sufficient for 120+ connectors)
-xx = one of the following connector styles: ST, SC, FC, FCAPC, SCAPC	

*The ultra polishing kit includes:*

*Specify the connector style being used by selecting from the list ATCF-FX-xx...*

		QTY
<b>ATCF-WB</b>	Water bottle	1
<b>ATCF-IA</b>	Isopropyl alcohol bottle	1
<b>ATCF-KW</b>	Kim wipes	1
<b>ATCF-PP</b>	Polycarbonate polishing plate	1
<b>ATCF-PF-A</b>	Polishing film, 12µm	10
<b>ATCF-PF-B</b>	Polishing film, 5µm diamond	6
<b>ATCF-PF-C</b>	Polishing film, 3µm diamond	6
<b>ATCF-PF-D</b>	Final polishing film	10
<b>ATCF-FX-STN</b>	STPC polishing fixture, for ST connectors*	*
<b>ATCF-FX-SCN</b>	SCPC polishing fixture, for SC connectors*	*
<b>ATCF-FX-FCN</b>	FCPC polishing fixture, for FC connectors*	*
<b>ATCF-FX-FCAPC</b>	FCAPC polishing fixture, for FCAPC connectors*	*
<b>ATCF-FX-SCAPC</b>	SCAPC polishing fixture, for SCAPC connectors*	*
<b>ATCF-FX-STN</b>	STPC polishing fixture, for ST connectors*	*

Do not use this kit with metal polishing pucks. Use of metal polishing pucks will scratch fiber surface.

\* Note: polishing fixture quantities are selected according to the customer's needs.

## ULTRA POLISHING CONSUMABLES REFILL KIT

PART#	DESCRIPTION
<b>AFTK-PK-FR</b>	Ultra Polishing Kit Consumables Refill (Sufficient for 120+ connectors)

*The ultra polishing consumables refill kit Includes:*

		QTY
<b>ATCF-IA</b>	Isopropyl alcohol bottle	1
<b>ATCF-KW</b>	Kim wipes	1
<b>ATCF-PF-A</b>	Polishing film, 12µm	10
<b>ATCF-PF-B</b>	Polishing film, 5µm diamond	6
<b>ATCF-PF-C</b>	Polishing film, 3µm diamond	6
<b>ATCF-PF-D</b>	Final polishing film	10

## CONSUMABLES REFILL KIT



AFRP-QT

PART#	DESCRIPTION
<b>AFRP-QT</b>	Refill kit for consumable items in the termination kits
<i>The consumables refill kit includes:</i>	
<b>ATCF-IA</b>	Isopropyl alcohol, 4oz
<b>ATCF-KW</b>	Wipes for fiber cleaning
<b>ATCF-PF-12</b>	Lapping film (pink)
<b>ATCF-PF-3</b>	Lapping film (yellow)
<b>ATCF-PF-.3</b>	Lapping film (white)

## FIBER OPTIC BREAKOUT KITS



ATCF-BKIT-C

Suttle's breakout router allows bundles of up to six fibers to be directed to different routes.

- The ATCF-BKIT-C kit is required for termination of all loose-tube (250µm) fiber
- A snap-in slot simplifies assembling the fibers into the routers
- Unused fibers are stored for future applications

PART#	DESCRIPTION
<b>ATCF-BKIT-C</b>	200 ft reel with PVC tubing, strain reliefs and adhesive shrink tubing (1/4" and 3/16")

## DUST BLAST KIT

PART#	DESCRIPTION
<b>ATCF-DB</b>	Compressed air canister with nozzle
<b>ATCF-DB-R</b>	Compressed air canister refill

## FIBER TRASH CAN



ATCF-TC1

For safely scrapping and storing remnants during termination.

PART#	DESCRIPTION
<b>ATCF-TC1</b>	Fiber trash can

## UNIVERSAL CRIMP TOOL



ATCC-UNV

Ratchet feature on the crimp tool ensures a proper crimp on the connector back post. Provides 1-4 size hex crimp cavities for simple crimping of Suttle ST, SC, & FC connectors.

- Ergonomic design is easier on hands
- Longer handle means less force required for crimping
- Ratchet feature ensures a proper crimp every time

PART#	DESCRIPTION
<b>ATCC-UNV</b>	Universal crimp tool, ratcheted, size 1-4 hex crimp cavities

## PRE-LOADED SYRINGE



ATCF-SY-QS

For safely scrapping and storing remnants during termination.

PART#	DESCRIPTION
<b>ATCF-SY-QS</b>	Pre-loaded syringe with needles (200 connectors/tube)

# USOC WIRING GUIDE

## NOTICE

The information contained herein has been compiled for use by our distributors and others in the telecommunications field desiring pertinent facts relative to the USOC (Universal Systems Ordering Code) numbers. The descriptions are considered to be basically equivalent to similar descriptions contained within part 68 subpart F of the code of Federal Regulations, and to the best of our knowledge believed to be correct.

The primary purpose of the material covered on the following pages is to give Suttle part numbers which meet USOC requirements, assisting our valued Suttle customers in ordering appropriate products.

**There are five basic types of telephone company-provided jacks used for the connection of registered equipment to telecommunications network:**

### 1. THE MINIATURE 6-POSITION JACK (miniature)

The miniature 6-position jacks provide bridged connections to the tip and ring conductors of a telephone line.

### 2. THE WEATHER-PROOF JACK

The weather-proof jack is used to provide bridged connections to the tip and ring conductors in environments exposed to moisture.

### 3. THE 50-POSITION MINIATURE RIBBON JACK (miniature ribbon)

The 50-position miniature ribbon is used when registered equipment is connected to several telephone lines.

### 4. THE MINIATURE 8-POSITION JACK (non-keyed)

The miniature 8-position series jack provides series connections to the tip and ring conductors.

### 5. THE MINIATURE 8-POSITION KEYED JACK (keyed)

The miniature 8-position keyed jack is for data equipment providing bridged connections to the tip and ring conductors of a telephone line and mode indication leads for use with an exclusion key telephone set if required.

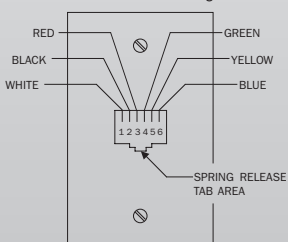
**Each type, except for the weather proof and 8-position keyed jacks, may be arranged to provide bridge connections of A and A1 conductors.**

## USOC NOTES

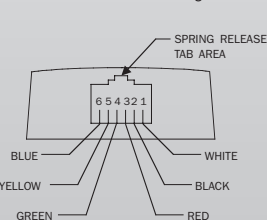
RJ (Registered Jack) numbers end with a letter designating wiring or mounting arrangement.

- The Letter "C" in the USOC indicates the jack is baseboard or flush mounted for a desk type unit.  
"W" indicates the jack is for a wall mounted unit.  
"M" is for multiple mounting arrangements.  
"X" is a single series connection.
- RJA1X converts a 4-hole jack to a miniature-bridged jack.
- RJA2X converts a single jack to a duplex jack.
- RJA3X converts a 12-hole jack to a miniature-bridged jack.
- RJ37X is used with registered telephone set equipped with an exclusion key for a data application.

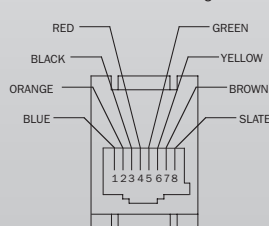
Wall Flush Mount Version of the Miniature Modular Jack Showing Pin Placement and Associated Color Coding.



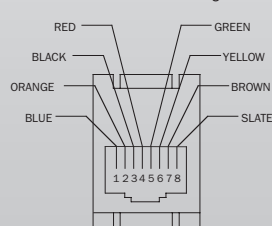
Surface Mount Version of the Miniature Modular Jack Showing Pin Placement and Associated Color Coding.



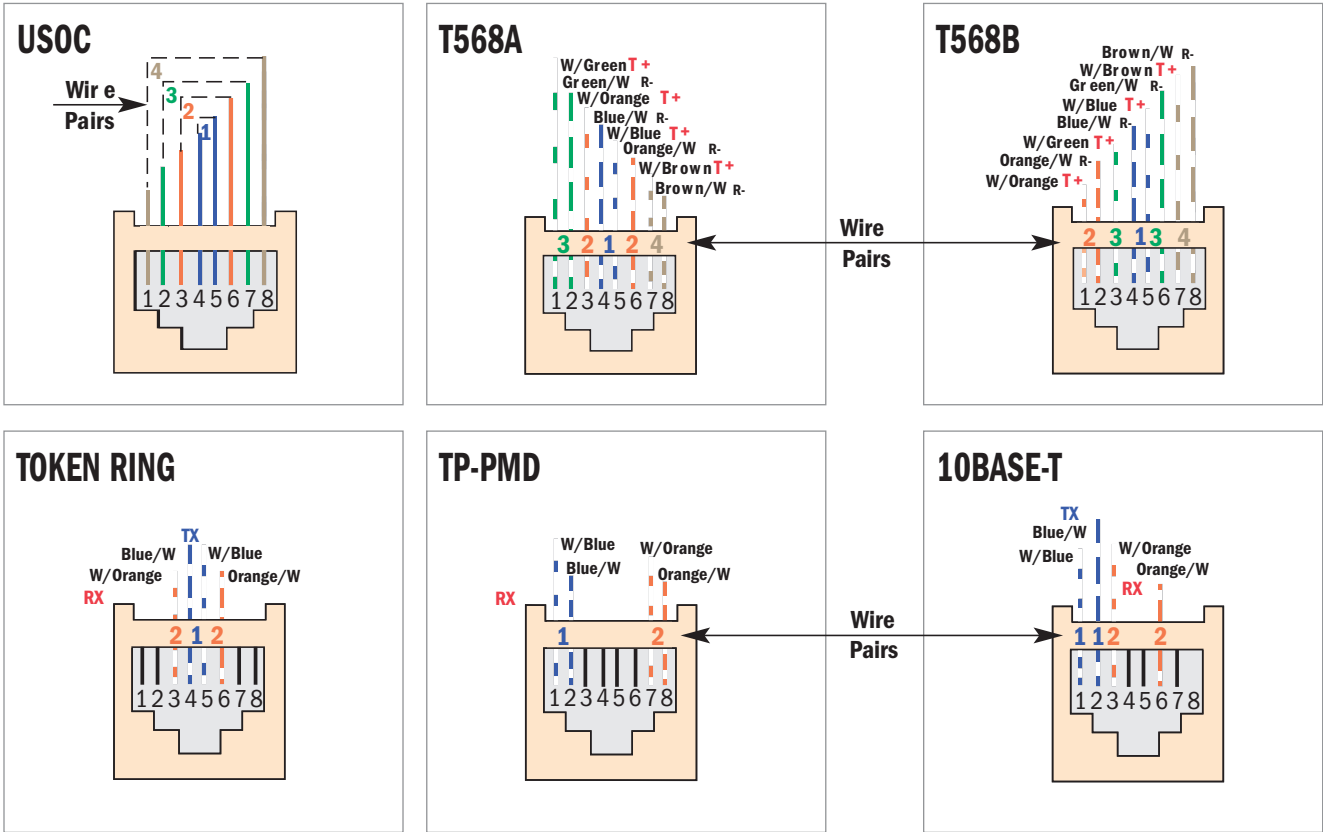
Keyed, 8-Position Modular Jack Showing Pin Placement and Associated Color Coding.



Non-Keyed, 8-Position Modular Jack Showing Pin Placement and Associated Color Coding.



# QUICK REFERENCE WIRING GUIDE



## TIA/EIA 606-A TERMINATION HARDWARE COLOR DESIGNATION

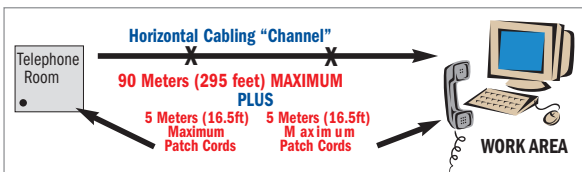
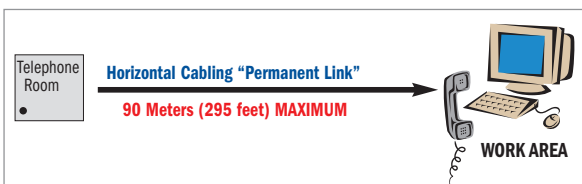
COLOR	DESCRIPTION	COLOR #	EXAMPLE
White	1st Level Backbone	-85	MC/IC
Red	Key System Connection	-53	N/A
Gray	2nd Level Backbone	-48	IC/HC
Yellow	Miscellaneous	-56	Aux. Alarms
Blue	Horizontal Cable Terms	-62	Station Cable
Green	Network Connections	-51	Customer Side Demarc
Purple	Common Equipment	-57	PBX, Host, LAN's, MUXES
Orange	Demarcation Point	-97	C.O. Termination
Brown	Interbuilding Backbone	----	Cabling Between Buildings

TX=Transmit RX=Receive BI=Bidirectional

## MATRIX FOR APPLICATION SPECIFIC PAIR ASSIGNMENT FOR 8-POSITION MODULAR CONNECTOR RJ-45

APPLICATION	PIN#	1 & 2	3 & 6	4 & 5	7 & 8	2 & 7	1 & 8
ANALOG USOC	-	T2/R2	R1/T1	-	T3/R3	T4/R4	-
10/100 BASE TX	TX	RX	-	-	-	-	-
TOKEN RING	-	TX	RX	-	-	-	-
TP-PMD	TX	-	-	RX	-	-	-
ATM USER	TX	-	-	RX	-	-	-
ATM HUB	RX	-	-	TX	-	-	-
1000 BASE-T	TX/RX	TX/RX	TX/RX	TX/RX	-	-	-
T-568A	T3/R3	T2/R2	R1/T1	T4/R4	-	-	-
T-568B	T2/R2	T3/R3	R1/T1	T4/R4	-	-	-
T2/T3	RX	-	TX	-	-	-	-
ISDN	Power	RX	TX	Power	-	-	-

TX=Transmit RX=Receive BI=Bidirectional



## TIA/EIA - TELCO WIRE COLOR CONVERSION

### 6 POSITION-6 CONDUCTOR

Modular Jack Type: 6 Position/6 Conductor

Contact Position: 1 2 3 4 5 6

Telco Wire Color: W BK R G Y BL

TIA/EIA Wire Color: W/G W/O BL/W W/BL O/W G/W

### 8 POSITION-8 CONDUCTOR

Modular Jack Type: 8 Position/8 Conductor

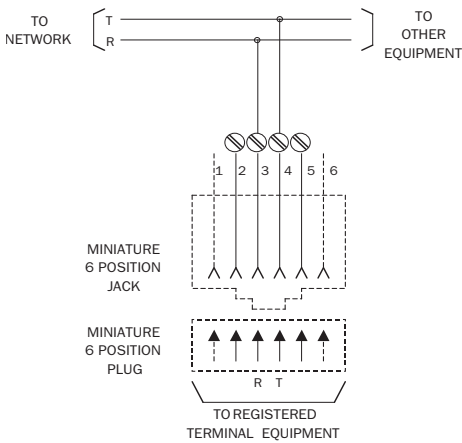
Contact Position: 1 2 3 4 5 6 7 8

Telco Wire Color: BL OR BK R G Y BR SL

TIA/EIA Wire Color: W/BR W/G W/O BL/W W/BL O/W G/W BR/W

# USOC WIRING DIAGRAMS

## RJ11C and RJ11W



**USOC RJ11C:** Surface or flush mounted jacks.

**USOC aRJ11W:** Wall mounted equipment.

**Mechanical Arrangement:** Miniature 6-position jack.

**Typical Usage:** Single line non-key telephones and ancillary devices.

**Electrical Network Connection:** Single line bridged tip and ring.

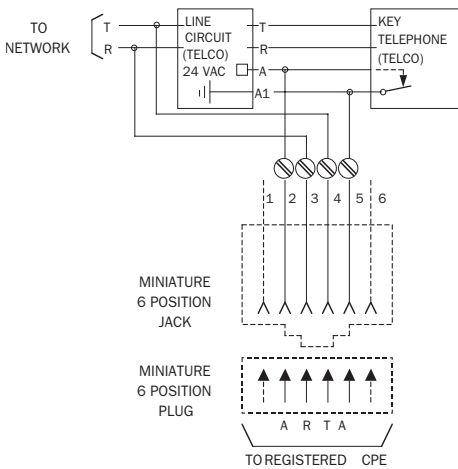
*Subtle products which can be used for USOC RJ11C:*

103A4	2-1001	625B1-4	625FE-4
104A4	2-2001	625B1E-4	625FS4
104B4	2-3001	625B2-4	625S4
105AF4	305C	625B3-4	625SA4
106AFD4	305D	625B3E-4	625T4
1542AM	333AE4	625B3EF4	625TD1
16150-4	404M	625B4-4	630AB4
16152L7-4	468DV48	625B4E-4	630ABC4
16152L7E-4	468L44	625B4EF4	630ABS4
16152L8-4	625A4	625C2-4	630AC4
16152L8E-4	625A2-4	625C4	630ANS4
19316L7-4	625A3-4	625D4	635B
19316L7E-4	625B	625F4	635D

*Subtle Products which can be used for USOC RJ11W:*

630ABC4	630AD4	630B4	632A
630AC4	630AP4	631A	633A

## RJ12C and RJ12W



**USOC RJ12C:** Surface or flush mounted jacks.

**USOC RJ12W:** Wall mounted equipment.

**Mechanical Arrangement:** Miniature 6-position jack.

**Typical Usage:** Single line non-keyed telephone sets and ancillary devices connected to a key system where registered terminal equipment is not compatible with electrical characteristics of tip and ring behind line circuit.

**Electrical Network Connection:** Single line bridged tip and ring ahead of the line circuit of a key system, with A and A1 leads.

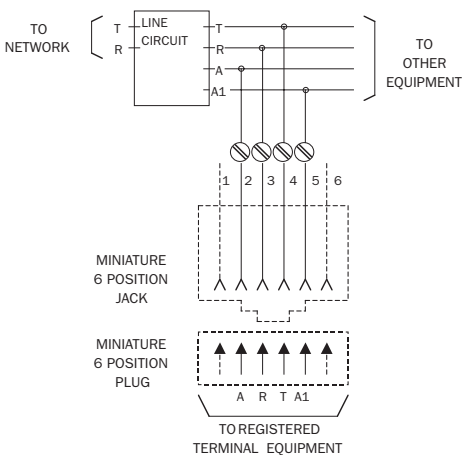
*Subtle Products which can be used for USOC RJ12C:*

103A4	2-1001	625B2-4	625S4
104A4	2-2001	625B2E-4	625SA4
104B4	2-3001	625B3-4	625T4
105AF4	305C	625B3EF4	625TD1
106AFD4	305D	625B3E-4	630AB4
1542AM	333AE4	625B4-4	630ABC4
16150-4	404M	625B4E-4	630ABS-4
16152L7-4	468L44	625B4EF4	630ANS4
16152L7E-4	625A2-4	625C4	630AC4
16152L8-4	625A3-4	625D4	635B
16152L8E-4	625B	625F4	635D
19316L7-4	625B1-4	625FE-4	
19316L7E-4	625B1E-4	625FS4	

*Subtle Products which can be used for USOC RJ11W:*

630A4	630AP4	630B4	632A
630ABC4	630AD4	631A	633A
630AC4			

## RJ13C and RJ13W



**USOC RJ13C:** Surface or flush mounted jacks.

**USOC RJ13W:** Wall mounted equipment.

**Mechanical Arrangement:** Miniature 6-position jack.

**Typical Usage:** Single line non-key telephone sets and ancillary devices connected to a key system.

**Electrical Network Connection:** Single line bridged tip and ring, A and A1 leads behind the line circuit of a key system.

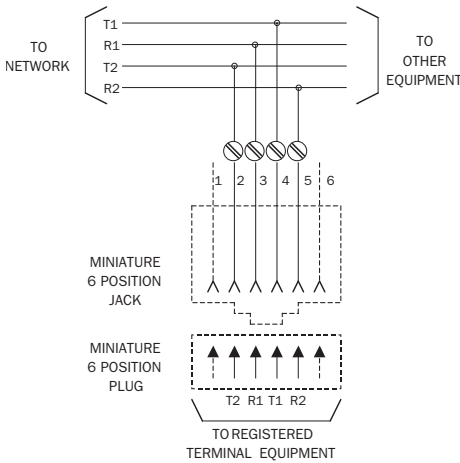
*Subtle Products which can be used for USOC RJ13C:*

103A4	2-1001	625B1E-4	625S4
104A4	2-2001	625B2-4	625SA4
104B4	2-3001	625B3-4	625T4
105AF4	305C	625B3E-4	625TD1
106AFD4	305D	625B3EF4	630AB4
180ST	333AE4	625B4-4	630ABC4
1650-4	404M	625B4E-4	630ABS4
16152L7-4	468L44	625B4EF4	630AC4
16152LE-4	625A4	625C4	630ANS4
16152L8-4	625A2-4	625D4	635B
16152L8E-4	625A3-4	625F4	635D
19316L7-4	625B	625FE-4	
19316L7E-4	625B1-4	625FS4	

*Subtle Products which can be used for USOC RJ11W:*

630A4	630AD4	630B4	632A
630ABC4	630AP4	631A	633A
630AC4			

### RJ14C and RJ14W



**NOTE:** The telephone company will wire the lines to the jack in the sequence designated by the customer.

**USOC RJ14C:** Surface or flush mounted jacks.

**USOC RJ14W:** Wall mounted equipment.

**Mechanical Arrangement:** Miniature 6-position jack.

**Typical Usage:** Two line non-key telephone sets and ancillary devices. Two separate telephone lines.

**Electrical Network Connection:** Two line bridged tip and ring.

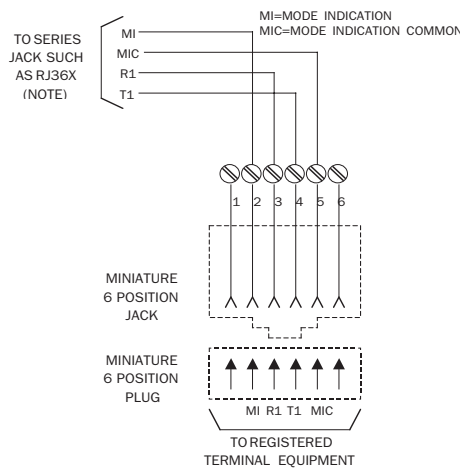
*Subtle Products which can be used for USOC RJ14C:*

103A4	193416L7E-4	625B1-4	625F4
104A4	2-1001	625B1E-4	625FE-4
104B4	2-2001	625B2-4	625FS4
105AF4	2-3001	625B3-4	625S4
106AFD4	333AE4	625B3E-4	625SA4
16150-4	404M	625B3EF4	625T4
16152L7-4	468L44	625B4-4	625TD1
16152L7E-4	625A4	625B4E-4	630AB4
16152L8-4	625A2-4	625B4EF4	630ABC4
16152L8E-4	625A3-4	625C4	630ABS4
19316L7-4	625B	625D4	630AC4

*Subtle Products which can be used for USOC RJ14W:*

630A4	630AC4	630AP4	631A	633A
630ABC4	630AD4	630B4	632A	630A4

### RJ16X



**NOTE:** MI and MIC leads are typically wired to an RJ36X series jack which can be used to connect an exclusion key telephone set ahead of the data equipment.

**USOC RJ16X:** Surface or flush mounted jacks.

**Mechanical Arrangement:** Miniature 6-position jack.

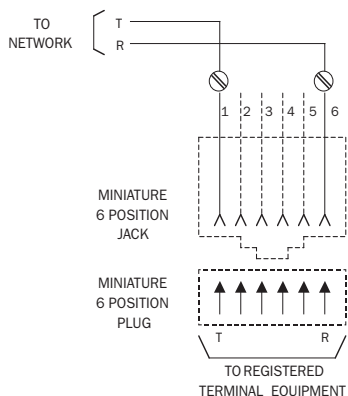
**Typical Usage:** 9dBm (Permissive) data equipment with MI (mode indications) and MIC (mode indication common) leads.

**Electrical Network Connection:** Single line bridged tip and ring with mode indication to a series connection ahead of the bridged connection.

*Subtle products which can be used for USOC RJ16X (including RJ36X jack):*

625MB	635B	635D	635B68
-------	------	------	--------

### RJ17C



**USOC RJ17C:** Surface or flush mounted jack.

**Mechanical Arrangement:** Miniature 6-position jack.

**Typical Usage:** Special non-key telephone set or certain hospital ancillary equipment in hospital critical care areas. Use is restricted to devices which comply with Article 517 of the 1978 National Electrical Codes.

**Electrical Network Connection:** Single line bridged tip and ring leads. Tip and ring appear on pins 1 and 2 rather than 3 and 4. Positions 2, 3, 4 and 5 are not equipped with contacts.

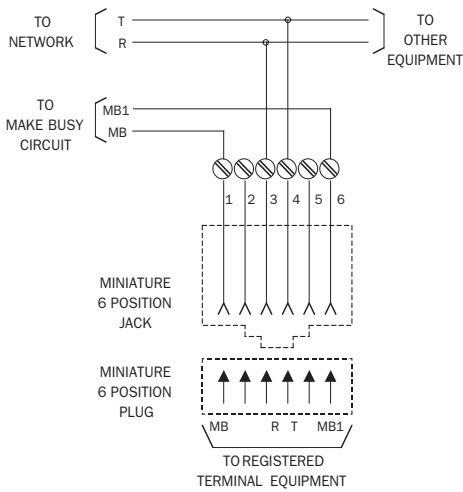
*Subtle Products which can be used for USOC RJ17C:*

102A6	630B6	630AP6	630AD6
468L66	697B68H102A6	630B6	630AP6
625B2	468L66	697B68H102A6	630B6
625D6	625B2	468L66	697B68H102A6
625TD2	625D6	625B2	468L66
630A6	625TD2	625D6	625B2
630AD6	630A6	625TD2	
630AP6	630AD6	630A6	

NOTE: EQUIPMENT MUST COMPLY WITH ARTICLE 517 OF THE NATIONAL ELECTRIC CODE



## RJ18C



**USOC RJ18C:** Surface or flush mounted jack.

**Mechanical Arrangement:** Miniature 6-position jack.

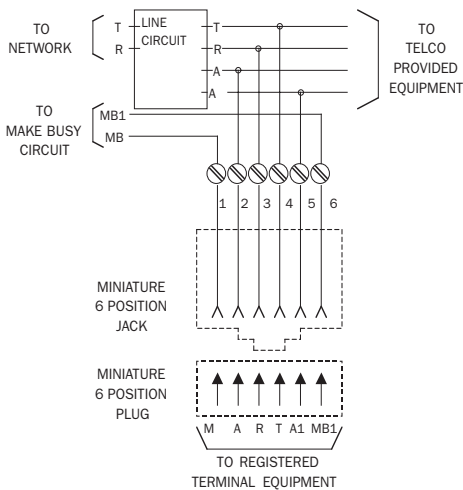
**Typical Usage:** When the registered equipment provides a contact closure between the MB and MB1 leads, a make-busy indication is transmitted to the network equipment busying out the line from further incoming calls. It is recommended that the busy indication (contact closure) be provided while line is in idle state.

**Electrical Network Connection:** A bridged connection of single line tip and ring with make busy leads MB/MB1.

*Subtle Products which can be used for USOC RJ18C:*

102A6	468L66	625D6	630AC6
103A6	625A6	625FS6	630AD6
104B6	625A2-6	625S6	630ANS6
16150-6	625A3-6	625SA6	630AP6
16152L7-6	625B3-6	625T6	630B6
19316L7-6	625B3E-6	625TD2	635B
2-1002	625B3EF6	630A6	635D
2-2003	625B4-6	630AB6	697B68H102A6
2-3003	625B4E-6	630ABC6	102A6
333AE6	625B4EF6	630ABS6	104B6

## RJ19C



**USOC RJ19C:** Surface or flush mounted jacks.

**Mechanical Arrangement:** Miniature 6-position jack.

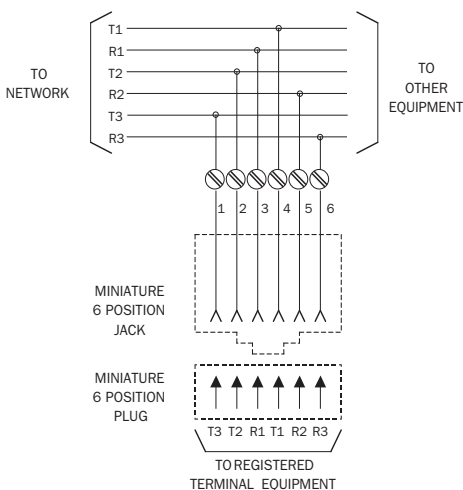
**Typical Usage:** When the registered equipment provides a contact closure between the MB and MB1 leads, a make-busy indication is transmitted to the network equipment busying out the line from further incoming calls. It is recommended that the busy indication (contact closure) be provided while line is in idle state.

**Electrical Network Connection:** A bridged connection of single line tip and ring behind a key system line circuit, with A and A1 lead control, and a direct connection for MB/MB1 make-busy leads.

*Subtle Products which can be used for USOC RJ19C:*

102A6	468L66	625D6	630AC6
103A6	625A6	625FS6	630AD6
104B6	625A2-6	625S6	630ANS6
16150-6	625A3-6	625SA6	630AP6
16152L7-6	625B3-6	625T6	630B6
19316L7-6	625B3E-6	625TD2	635B
2-1002	625B3EF6	630A6	635D
2-2003	625B4-6	630AB6	697B68H
2-3003	625B4E-6	630ABC6	102A6
333AE6	625B4EF6	630ABS6	103A6

## RJ25C



**USOC RJ25C:** Surface or flush mounted jack.

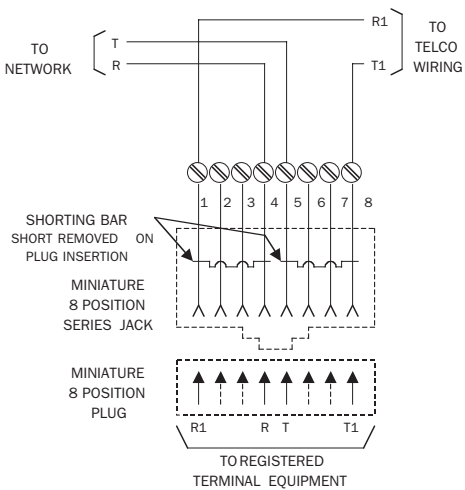
**Mechanical Arrangement:** Miniature 6-position jack.

**Typical Usage:** Three line non-key telephone sets, ancillary devices, including message registration, automatic identification, outward dialing and off-premise station.

**Electrical Network Connection:** Up to three lines bridged connection.

*Subtle Products which can be used for USOC RJ25C:*

102A6	2-3003	625B4EF6	630ANS6
103A6	333AE6	625D6	630AP6
104A6	625A6	625FS6	630ABC6
104B6	625A2-6	625S6	630ABS6
106AFD6	625A3-6	625SA6	630AC6
16150-6	625B3-6	625T6	630B6
16152L7-6	625B3E-6	625TD2	635B
19316L7-6	625B3EF6	630A6	635D
2-1002	625B4-6	630AB6	697B68H
2-2003	625B4E-6	630AD6	102A6

**RJ31X**

**Mechanical Arrangement:** Miniature 8-position series on non-keyed jack with shorting bars.

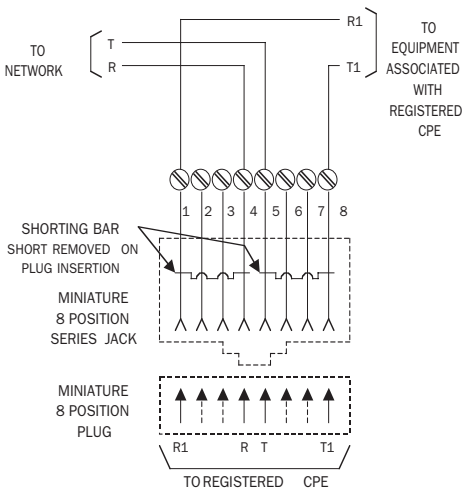
**Typical Usage:** Alarm reporting device.

**Electrical Network Connection:** Series tip and ring ahead of all station equipment. Single line telephone.

*Subtle Products which can be used for USOC RJ31X:*

468A	635A	*635B68	648C8SB
625A28SB	635B	*635B68F	97D
625A38SB			

*\*Asterisked products are those which include the RJ11C Jack.*

**RJ32X**

**Mechanical Arrangement:** Miniature 8-position series on non-keyed jack with shorting bars.

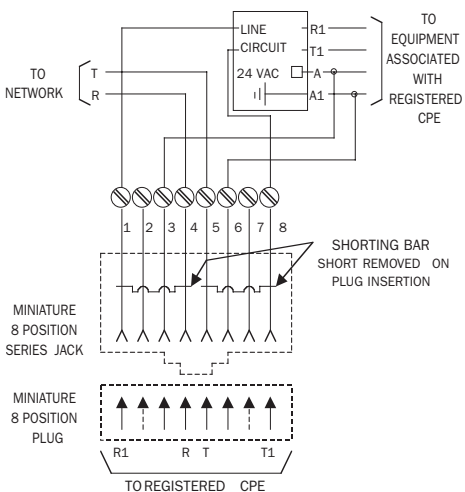
**Typical Usage:** Automatic dialer.

**Electrical Network Connection:** Series tip and ring at the station. Single line telephone.

*Subtle Products which can be used for USOC RJ32X:*

625A28SB	635A	*635B68	648A
625A38SB	635A8	648C8SB	*97D

*\*Asterisked products are those which include the RJ11C Jack.*

**RJ33X**

**Mechanical Arrangement:** Miniature 8-position series non-keyed jack with shorting bars.

**Typical Usage:** Series ancillary devices connected to a key system where registered terminal equipment is not compatible with electrical characteristics of tip and ring behind line circuit.

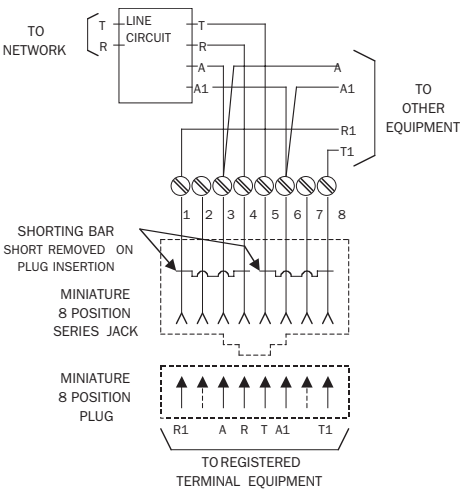
**Electrical Network Connection:** Series tip and ring ahead of the line circuit of a key system with A and A1 leads.

*Subtle Products which can be used for USOC RJ33X:*

625A28SB	635A	*635B68	*97D
625A38SB	635A8	648C8SB	

*\*Asterisked products are those which include the RJ11C Jack.*

### RJ34X



**Mechanical Arrangement:** Miniature 8-position series non-keyed jack with shorting bars.

**Typical Usage:** A single line set with exclusion or series ancillary device connected to a key system.

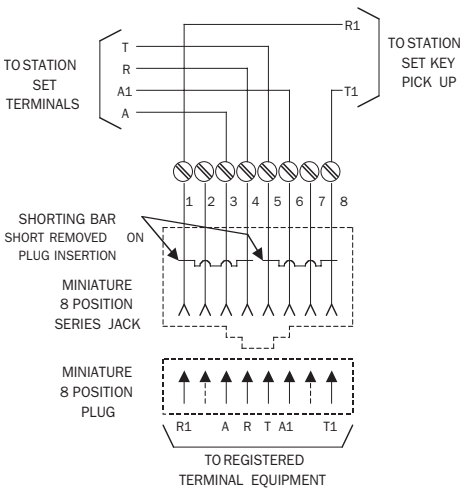
**Electrical Network Connection:** Series tip, ring, A and A1 leads behind the line circuit of a key system.

*Subtle Products which can be used for USOC RJ34X:*

<b>625A28SB</b>	<b>635A</b>	<b>*635B68</b>	<b>648C8-SB</b>
<b>625A38SB</b>	<b>635A8</b>		

*\*Asterisked products are those which include the RJ11C Jack.*

### RJ35X



**Mechanical Arrangement:** Miniature 8-position series on non-keyed jack with shorting bars.

**Typical Usage:** Series ancillary devices connected to key telephone sets.

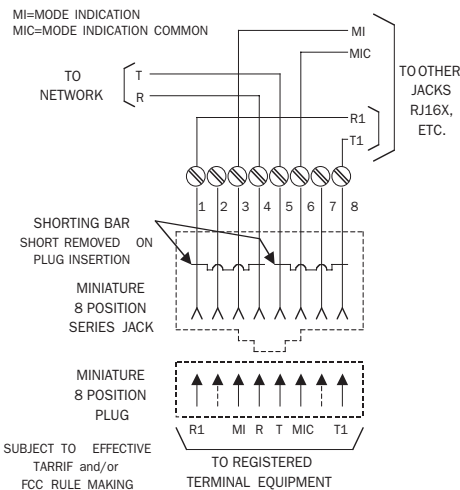
**Electrical Network Connection:** Series connection to the multiplied tip, ring, A and A1 leads behind the pick-up keys of a key telephone.

*Subtle Products which can be used for USOC RJ35X:*

<b>625A28SB</b>	<b>635A</b>	<b>*635B68</b>	<b>648C8SB</b>
<b>625A38SB</b>	<b>635A8</b>		

*\*Asterisked products are those which include the RJ11C Jack.*

### RJ36X



**Mechanical Arrangement:** Miniature 8-position series non-keyed jack with shorting bars.

**Typical Usage:** Mode indication (exclusion key) telephone set in series with jack for data equipment.

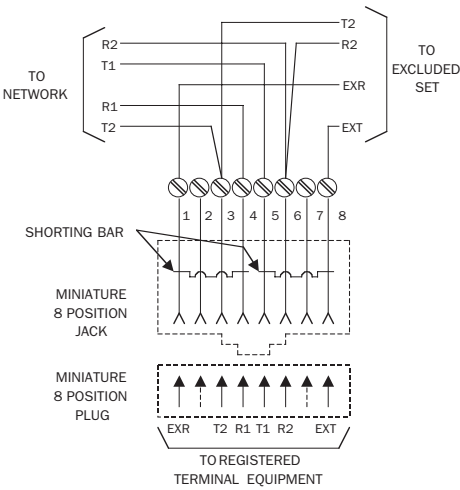
**Electrical Network Connection:** Series tip and ring with mode indication to station behind series connection.

*Subtle Products which can be used for USOC RJ36X:*

<b>625A28SB</b>	<b>635A</b>	<b>635B68</b>	<b>*97D</b>
<b>625A38SB</b>	<b>635A8</b>	<b>648C8SB</b>	

*\*Asterisked products are those which include the RJ11C Jack.*

**RJ37X**



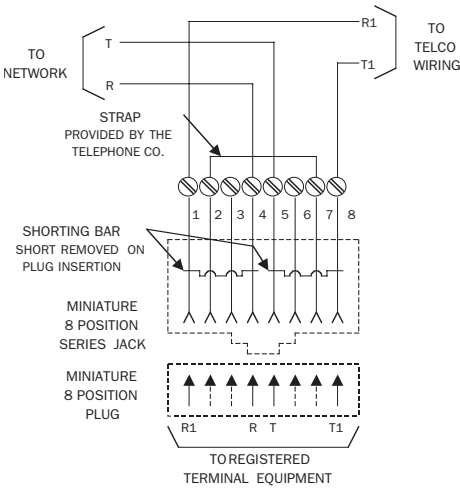
**NOTE:** The telephone company will wire the lines to the jack in the sequence designated by the customer.  
**Mechanical Arrangement:** Miniature 8-position series non-keyed jack with shorting bars.  
**Typical Usage:** Two line telephone with the exclusion on one line.  
**Electrical Network Connection:** Two line bridged tip and ring with exclusion on line 1.

*Subtle Products which can be used for USOC RJ37X:*

<b>625A28SB</b>	<b>635A</b>	<b>*635B68</b>	<b>*97D</b>
<b>625A38SB</b>	<b>635A8</b>	<b>648C8-SB</b>	

*\*Asterisked products are those which include the RJ11C Jack.*

**RJ38X**



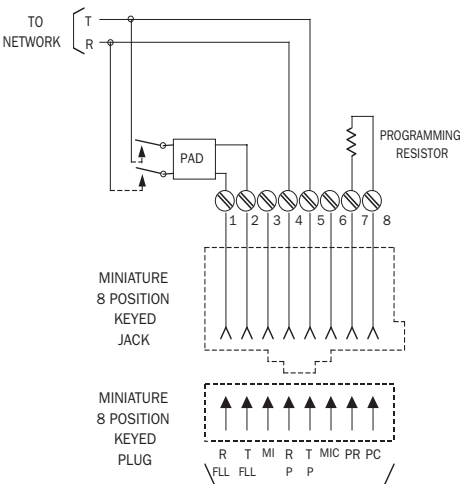
**Mechanical Arrangement:** Miniature 8-position series non-keyed jack with shorting bars.  
**Typical Usage:** Registered alarm dialers.  
**Electrical Network Connection:** Series connection to the tip and ring of telephone line identical to that of JR31X. Strap provides a continuity circuit between 2 and 7, which is used as an indication that the plug of the registered equipment is engaged with the jack. The jack is wired ahead of all station equipment electrically.

*Subtle Products which can be used for USOC RJ32X:*

<b>625A28SB</b>	<b>635A</b>	<b>*635B68</b>	<b>*97D</b>
<b>625A38SB</b>	<b>635A8</b>	<b>648C8SB</b>	

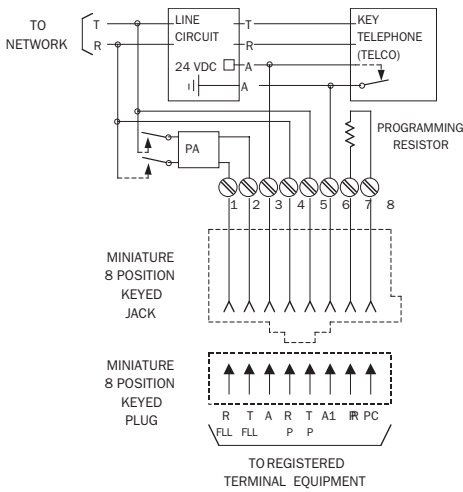
*\*Asterisked products are those which include the RJ11C Jack.*

**RJ41S**



**Mechanical Arrangement:** Single miniature 8-position keyed jack for surface mounting.  
**Typical Usage:** Universal jack for fixed loss loop (FLL) or programmed (P) types of data equipment.  
**Electrical Network Connection:** Single line bridged tip and ring.

### RJ42S

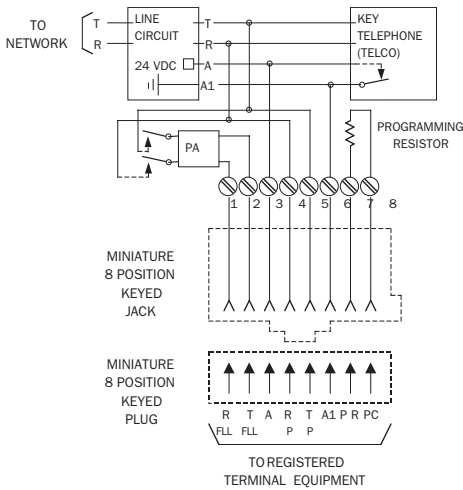


**Mechanical Arrangement:** Single miniature 8-position keyed jack for surface mounting.  
**Typical Usage:** Universal jack for fixed loss loop (FLL) or programmed (P) types of data equipment.  
**Electrical Network Connection:** Single line bridged tip and ring.

*Suttle Products which can be used for USOC RJ42S:*

97AB

### RJ43S

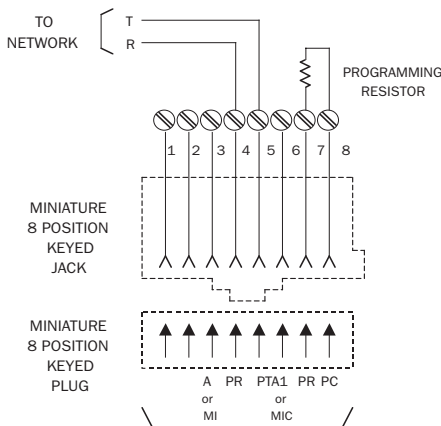


**Mechanical Arrangement:** Single miniature 8-position keyed jack.  
**Typical Usage:** Universal jack for fixed loss loop (FLL) or programmed (P) types of data equipment.  
**Electrical Network Connection:** Single line bridged tip and ring.

*Suttle Products which can be used for USOC RJ43S:*

97AB

### RJ45S



**Mechanical Arrangement:** Single miniature 8-position keyed jack.  
**Typical Usage:** Programmed data equipment.  
**Electrical Network Connection:** Single line bridged tip and ring.

*Suttle Products which can be used for USOC RJ45S:*

103AY8

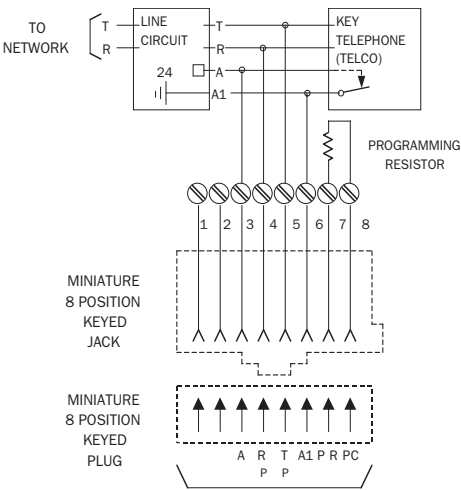
625A28KR

697B8

97B

*\*Asterisked products are those which include the RJ11C Jack.*

**RJ46S**



**Mechanical Arrangement:** Single miniature 8-position keyed jack.

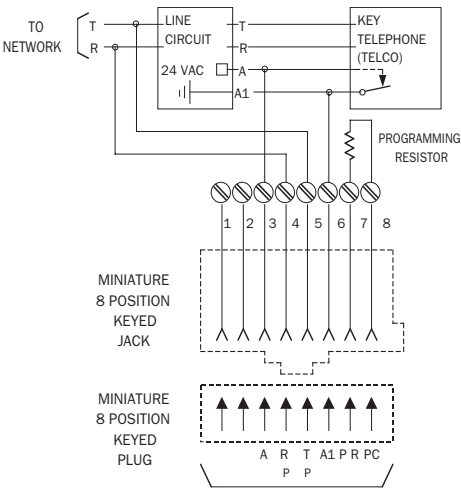
**Typical Usage:** Programmed data equipment connected to a key system where the registered terminal equipment is not compatible with electrical characteristics of tip and ring ahead of the line circuit.

**Electrical Network Connection:** Programmed 8-position keyed jack with T/R connected ahead of the line circuit.

*Subtle Products which can be used for USOC RJ46S:*

<b>103AY8</b>	<b>625A28KR</b>	<b>697B8</b>	<b>97B</b>
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**RJ47S**



**Mechanical Arrangement:** Single miniature 8-position keyed jack.

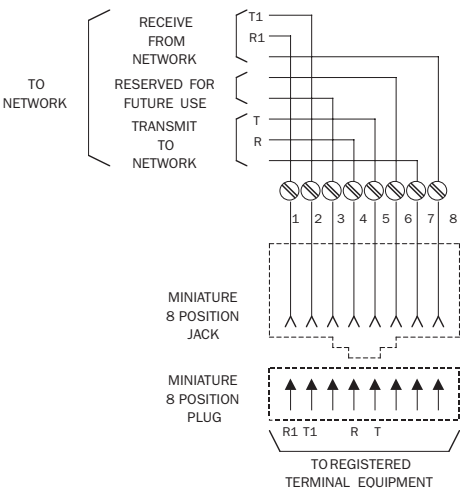
**Typical Usage:** Programmed data equipment connected to a key system.

**Electrical Network Connection:** Programmed keyed data jack with T/R connected behind the line circuit.

*Subtle Products which can be used for USOC RJ47S:*

<b>625A28KR</b>	<b>697B8</b>	<b>97B</b>
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**RJ48C**



**Mechanical Arrangement:** Miniature 8-position jack.

**Typical Usage:** 1.544 Mbps digital services.

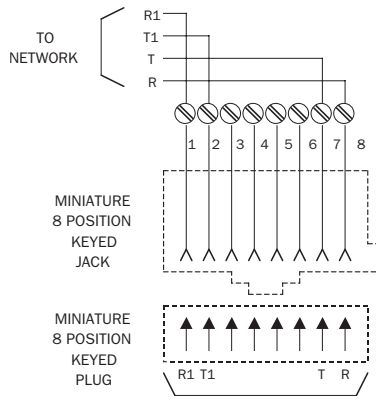
**Electrical Network Connection:** Tip and Ring, T1 R1. Conductors 7 and 8 provide cable shield integrity. Conductors 3 and 6 are reserved for future use.

*Subtle Products which can be used for USOC RJ48C:*

<b>102A8</b>	<b>105AF</b>	<b>106BFD</b>	<b>625A2-8</b>
<b>103A8</b>	<b>106AFD</b>	<b>625B3-8</b>	<b>625A3-8</b>
<b>104A8</b>			



## RJ48S



**Mechanical Arrangement:** Miniature 8-position keyed jack.

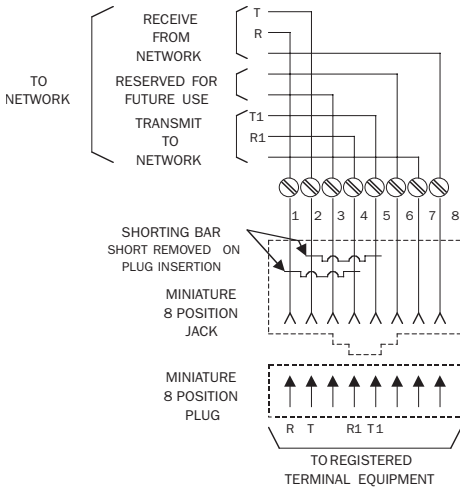
**Typical Usage:** Local area data channels/subrate digital services.

**Electrical Network Connection:** One or two line Tip and Ring or T&R, T1 R1.

*Subtle Products which can be used for USOC RJ48S:*

104B8	625A28-K	625B3-8	697B8LR
106BFD	625A38-K		

## RJ48X



**Mechanical Arrangement:** Miniature 8-position jack.

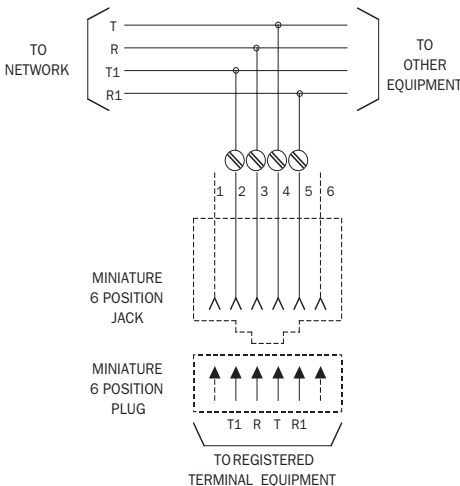
**Typical Usage:** 1.544 Mbps digital services.

**Electrical Network Connection:** Tip and Ring, T1 R1. Conductors 7 and 8 provide cable shield integrity. Conductors 2 and 6 are reserved for future use.

*Subtle Products which can be used for USOC RJ48X:*

625A28K-2	625A28NK-2	625A38K-2	648C848X625A28K-2
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## RJ1DC



**Mechanical Arrangement:** Miniature 6-position jack.

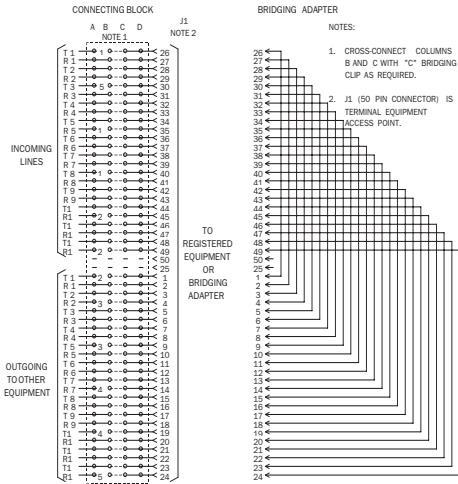
**Typical Usage:** Terminal equipment and systems requiring 4-wire exchange access.

**Electrical Network Connection:** Single line bridged 4-wire, tip/ring and T1/R1.

*Subtle Products which can be used for USOC RJ1DC:*

103A4	2-2001	625B2-4	625FS4
104B4	2-3001	625B3-4	625S4
105AF4	333AE4	625B3E-4	625SA4
106AFD4	404M	625B3EF4	625T4
16150-4	625A4	625B4-4	630AB4
16152L7-4	625A2-4	625B4E-4	630ABC4
16152LE-4	625A3-4	625B4EF4	630ABS4
19316L7-4	625B	625C4	630AC4
19316LE-4	625B1-4	625F4	630ANS4
2-1001	625B1E-4	625FE-4	635D

**RJ71C**

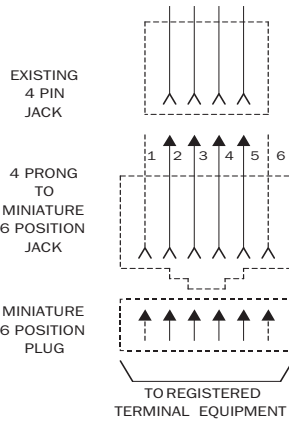


Connecting Block.

Subtle Products which can be used for USOC RJ71C:

**AJK-700-66-B1-12B Connecting Blk.**

**RJA1X**



**Mechanical Arrangement:** Miniature 6-position jack to 4-pin plug adapter.

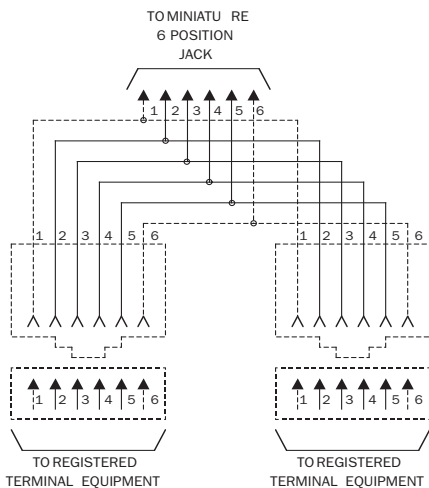
**Typical Usage:** Single line non-key telephone sets or ancillary devices where a working 4-pin jack exists and the registered terminal equipment is equipped with a miniature 6-position plug.

**Electrical Network Connection:** Single line bridged tip and ring. Adapter.

Subtle Products which can be used for USOC RJA1X:

**283M**

**RJA2X**



**Mechanical Arrangement:** Miniature 6-position plug to duplex (2) miniature 6-position jack-adapter.

**Typical Usage:** Single line non-key telephone sets or ancillary device where a working miniature 6-position jack exists.

**Electrical Network Connection:** Single line bridged tip and ring. Adapter.

Subtle Products which can be used for USOC RJA2X:

**267A**

**267E**

## USOC INDEX

USOC	DESCRIPTION	TYPICAL APPLICATION
<b>RJ11W (Wall) RJ11C</b>	Bridged configurations other than data; single line connections; bridged T/R; 6 position jack.	Single line non-key telephone, ancillary devices, PBXS and key telephone systems.
<b>RJ12W (Wall) RJ12C</b>	Bridged T/R ahead of the line circuit of a key telephone system with A/A1; 6 position jack.	Single line non-key telephone sets and ancillary devices connected to a key system where registered terminal equipment is not compatible with electrical characteristics of tip and ring behind line circuit.
<b>RJ13W (Wall) RJ13C</b>	Bridged T/R behind of the line circuit of a key telephone system with A/A1; 6 position jack.	Single line non-key telephone sets and ancillary devices connected to a key system.
<b>RJ14W (Wall) RJ14C</b>	Two line bridged T/T; 6 position jack.	Two line non-key telephone sets and ancillary devices.
<b>RJ15C</b>	Bridged T/R; 3 position weatherproof jack.	Providing telephone service to boats and marinas.
<b>RJ16X</b>	Bridged tip and ring with mode Indication to A Series Connection ahead of bridged connector; 6 position jack.	9dBm (Permissible data equipment with MI (mode indication) and MIC (mode indication common) leads.
<b>RJ17C</b>	Single line bridged tip and ring leads. Tip and ring appear on pins 1 and 6 rather than 3 and 4. Positions 2,3,4 and 5 are not equipped with contacts, 6 position jack.	Special non-key telephone set or certain hospital ancillary equipment in hospital critical care areas.
<b>RJ18C</b>	A bridged connection of a single line tip and ring with make-busy leads MB/MB1. 6 position jack.	When the registered equipment provides a contact closure between the MB and MBI leads, a make busy indication is transmitted to the network equipment busying out the line from further incoming calls.
<b>RJ19C</b>	Bridged tip and ring behind key telephone Line Circuit plus A, A1 and Make busy Control. 6 position jack.	When the registered equipment provides a contact closure between the MB and MBI leads, a make busy indication is transmitted to the network equipment busying out the line from further incoming calls.
<b>RJ21X</b>	Multiple line; up to 25 bridged T/R; 50 position jack.	Traffic data recording equipment.
<b>RJ22X</b>	Multiline: up to 12 bridged T/R ahead of the line circuit of a key telephone system with A/A1 connections; 50 position jack.	2 to 12 ancillary devices connected to a key system at one location where registered terminal equipment is not compatible with electrical characteristics of tip and ring behind the line circuit.
<b>RJ23X</b>	Multiline: up to 12 bridged T/R ahead of the line circuit of a key telephone system with A/A1 connections; 50 position jack.	2 to 12 ancillary devices connected to a key system at one location.
<b>RJ24X</b>	Multiline: up to 5 bridged T/R behind the line circuit of a key telephone system. This arrangement has the same wiring arrangement as a standard 5 line key telephone set.	Ancillary devices connected to a key system such as 5 line conferencing devices.
<b>RJ2MB</b>	Multiline bridge tip ending with make busy indication.	2 to 12 non-key telephone and ancillary devices connected directly to c.o. lines with make busy requirement.
<b>RJ25C</b>	Up to three lines bridged connection 6-position jack.	Three line non-key telephone sets, ancillary devices, including message registration, automatic identification, outward dialing, and off-premises station.
<b>RJ26X</b>	Data: bridged T/R; 50 position ribbon jack, universal.	Universal jack for fixed loss loop (FLL) or programmed (P) types of data equipment.
<b>RJ27X</b>	Bridged T/R; 50 position ribbon jack, programmed.	Programmed jack for programmed (P) types of data equipment.
<b>RJ31M</b>	Multiline: up to 8 position series jacks.	Multiple series T/R ahead of all station equipment (reference section 68.502 (b) (1). FCC.
<b>RJ31X</b>	Series T/R ahead of all station equipment; 8 position series jack.	Alarm reporting devices.
<b>RJ32M</b>	Multiline: up to 8 position series jacks.	Multiple series T/R at station (reference section 68.502 (b) (2). FCC.
<b>RJ32X</b>	Series T/R at station; 8 position series jack.	Series ancillary devices such as automatic dialers. Single line sets with exclusion.
<b>RJ32X</b>	Series T/R at station; 8 position series jack.	Series ancillary devices such as automatic dialers. Single line sets with exclusion.
<b>RJ33M</b>	Multiline: up to 8 position series jacks.	Multiple series T/R ahead of the line circuits of a key telephone system, with A/A1 (reference section 68.502 (b) (3). FCC.
<b>RJ33X</b>	Series T/R behind the line circuit of a key telephone system with A/A1; 8 position series jack.	Series ancillary devices connected to a key system where registered terminal equipment is not compatible with electrical characteristics of tip and ring behind line circuit.
<b>RJ34M</b>	Multiline: up to 8 position series jacks.	Multiple series T/R behind the line circuits of a key telephone system with A/A1 (reference section 68.502 (b) (4). FCC.
<b>RJ34X</b>	Series T/R behind the line circuit of a key telephone system with A/A1; 8 position series jack.	A single line set with exclusion or series ancillary device connected to a key system. This arrangement is preferred to arrangement shown in subsection (b) (3). FCC.
<b>RJ35M</b>	Multiline: up to 8 position series jacks.	Multiple series T/R behind the line circuits leading to one key telephone station instrument of a key telephone system, with A/A1.
<b>RJ35X</b>	Series T/R at key telephone station, line circuit of a key telephone system with A/A1; 8 position series jack.	Series ancillary devices connected to a key telephone set.
<b>RJ36X</b>	Series T/R with mode indication signal; 6 position jack.	Mode indication (exclusion key) telephone set in series with data jack. Customer shall specify whether a closure or open shall indicate "exclusion" mode.

USOC	DESCRIPTION	TYPICAL APPLICATION
<b>RJ37X</b>	Series T/R on first line and bridged T/R on second line; 8 position series jack.	Two line telephones with exclusion on one line.
<b>RJ38X</b>	Series connection identical to RJ31X. Strap provides a continuity circuit between 2 and 7, which is used as an indication that the plug of the equipment is engaged with the jack strap provided by telephone company.	Registered alarm dialers.
<b>RJ41M</b>	Data: multiple bridged T/R; 8 position keyed data jack, universal.	Multiple installations of fixed loss loop or programmed types of data equipment.
<b>RJ41S</b>	Data: bridged T/R; 8 position keyed data jack, universal.	Universal jack for fixed loss loop (FLL) or programmed (P) types of data equipment.
<b>RJ42S</b>	Data: multiple tip and ring. A and A1. Tip and ring ahead of line circuit; 8 position keyed data jack.	Universal jack for FLL or Programmed (P) types of data equipment connected to a key system where the registered terminal equipment is not compatible with electrical characteristics of tip and ring behind the line circuit.
<b>RJ42M</b>	Data: multiple tip and ring connected ahead of the line circuit. 8 position keyed data jack.	Multiple installations of fixed loss loop or programmed types of data equipment.
<b>RJ43S</b>	Data: multiple tip and ring A/A1. Tip and ring behind line circuit; 8 position keyed data jack.	Universal jack for FLL or Programmed types of data equipment connected to a key system.
<b>RJ43M</b>	Data: multiple tip and ring A/A1 tip and ring behind line circuit; 8 position keyed data jack.	Multiple installation of FLL or P data equipment.
<b>RJ45M</b>	Data: multiple bridged T/R; 8 position keyed data jack.	Multiple installations of programmed types of data equipment.
<b>RJ45S</b>	Data: bridged T/R; 8 position keyed data jack, programmed.	Programmed data equipment.
<b>RJ46S</b>	Data: Single Line bridged tip and ring. A/A1 tip and ring ahead of line circuit; 8 position keyed.	Programmed data equipment connected to a key system where the registered terminal equipment is not compatible with electrical characteristics of tip and ring ahead line circuit.
<b>RJ46M</b>	Same as RJ46S only in Multiple Mounting arrangements bridged tip and ring with or without A/A1.	Programmed data equipment connected to a key system.
<b>RJ47M</b>	Data same as RJ47S only in Multiple Mounting arrangements.	Programmed data equipment connected to a key system.
<b>RJ47S</b>	Data: Single Line bridged tip and ring. A/A1 tip and ring behind line circuit; 8 position keyed.	Programmed data equipment connected to a key system where the registered terminal equipment is not compatible with electrical characteristics of tip and ring behind line circuit.
<b>RJ48C</b>	8 position digital services jack.	Network connection for ISDN terminal equipment using 1.544 Mbps.
<b>RJ48M</b>	50 position miniature ribbon connector for digital services.	Multiline (8 T & R, 8 T1 R1) connections for terminal equipment using 1.544 Mbps.
<b>RJ48S</b>	8 position keyed digital services jack.	Network connection for local area data channels and/or substrate digital services.
<b>RJ48T</b>	50 position miniature ribbon connector.	Multiline network connection for local area data channels and/or substrate digital services.
<b>RJ48X</b>	8 position digital services jack with shorting bars.	Network connection for ISDN terminal equipment using 1.544 Mbps.
<b>RJM2X</b>	Wall or rack mounting enclosure for use with multiple lines of data and voice blocks and adapters.	
<b>RJ51X</b>	Data: bridged T/R with A/A1 and Mode Indication; 50 position ribbon jack, universal; T/R connected ahead of the line circuit.	Universal jack for fixed loop (FLL) or programmed (p) types of data equipment requiring both Mode Indication function and A/A1 connections to a key telephone system. This configuration will normally be used in conjunction with RJ36X series configuration.
<b>RJ52X</b>	Data: bridged T/R with A/A1 and Mode Indication; 50 position ribbon jack, programmed; T/R connected ahead of the line circuit.	Universal jack for fixed loop (FLL) or programmed (P) types of data equipment requiring both Mode Indication function and A/A1 connections to a key telephone system. This configuration will normally be used in conjunction with RJ36X series configuration.
<b>RJ53X</b>	Data: bridged T/R with A/A1 and Mode Indication; 50 position ribbon jack, programmed. T/R connected ahead of the line circuit.	Programmed jack for programmed (P) types of data equipment requiring both Mode Indication function and A/A1 connections to a key telephone system. This configuration will normally be used in conjunction with RJ36X series configuration.
<b>RJ54X</b>	Data: bridged T/R and A/A1 and Mode Indication; 50 position ribbon jack, programmed. T/R connected behind the line circuit.	Programmed jack for programmed (P) types of data equipment requiring both Mode Indication function and A/A1 connections to a key telephone system. This configuration will normally be used in conjunction with RJ36X series configuration.
<b>RJ71A</b>	8 position jack.	
<b>RJ71M</b>	50 position ribbon.	
<b>RJA1X</b>	Adapter between non-standard square-array 4 pin jack and standard 6 position plug.	Single line non-key telephone set or ancillary devices where a working 4 pin jack exists and the registered terminal equipment is equipped with a miniature 6 position plug.
<b>RJA2X</b>	Adapters between one standard 6 position jack and two standard 6 position plugs ("cube tap" or "T" adapter).	Single line non-key telephone set or ancillary device where a working miniature 6 position jack exists.
<b>RJA3X</b>	Adapter between non-standard 12 pin jack and standard 6 position plug.	Single line non-key telephone set or ancillary devices where a working 12 pin jack exists and the registered terminal equipment is equipped with a miniature 6 position plug.
<b>RJA4X</b>	Adapter between non-standard rectangular-array 6 pin jack and standard 6 position plug.	Single line non-key telephone set or ancillary devices where a working rectangular-array jack exists and the registered terminal equipment is equipped with a miniature 6 position plug.
<b>RJ1DC</b>	Single line bridged 4-Wire tip/ring and T1/R1.	Terminal equipment and systems requiring 4-wire exchange access.

# GLOSSARY

## → ABBREVIATIONS

<b>ACR</b>	Attenuation-to-Crosstalk Ratio	<b>IP</b>	Internet Protocol
<b>ADO</b>	Auxiliary Disconnect Outlet	<b>ISDN</b>	Integrated Services Digital Network
<b>ADSL</b>	Asynchronous Digital Subscriber Line	<b>ISO</b>	International Standards Organization
<b>ADSL2+</b>	Asynchronous Digital Subscriber Line 2+	<b>JTC</b>	Joint Technical Committee
<b>ANSI</b>	American National Standards Institute	<b>Kbps</b>	Kilobit per second
<b>ATM</b>	Asynchronous Transfer Mode	<b>kHz</b>	Kilohertz
<b>AWG</b>	American Wire Gauge	<b>Km</b>	Kilometer
<b>BD</b>	Building Distributor	<b>KTS</b>	Key Telephone System
<b>BER</b>	Bit Error Rate	<b>LAN</b>	Local Area Network
<b>BFOC</b>	Bayonet Fiber Optic Connector	<b>lbf</b>	Pounds force
<b>BICSI</b>	Building Industry Consulting Service International	<b>LEC</b>	Local Exchange Carrier
<b>bps</b>	Bits per second	<b>LED</b>	Light Emitting Diode
<b>CAT3</b>	Category 3	<b>lx</b>	Lux
<b>CAT5</b>	Category 5	<b>m</b>	Meter
<b>CAT5e</b>	Category 5 Enhanced	<b>Mbps</b>	Megabits per second
<b>CAT6</b>	Category 6	<b>MC</b>	Main Cross-connect
<b>CD</b>	Campus Distributor	<b>MDF</b>	Main Distribution Frame
<b>CDDI®</b>	Copper Distributed Data Interface	<b>MHz</b>	Megahertz
<b>CEDIA</b>	Custom Electronics Design & Installation Association	<b>MHzkm</b>	Megahertz kilometer
<b>CM</b>	Common Mode	<b>mm</b>	Millimeter
<b>CO</b>	Central Office	<b>MMJ</b>	Modified Modular Jack
<b>coax</b>	Coaxial Cable	<b>MT-RJ</b>	Mechanical Transfer Registered Jack
<b>CP</b>	Consolidation Point	<b>MuTOA</b>	Multi-user Telecommunications Outlet Assembly
<b>CPE</b>	Customer Premises Equipment	<b>NEC®</b>	National Electrical Code®
<b>CSA</b>	Canadian Standards Association	<b>NEMA®</b>	National Electrical Manufacturers Association
<b>cULus®</b>	UL® Listed for Canada and the United States	<b>NEXT</b>	Near-End Crosstalk
<b>dB</b>	Decibel	<b>NFPA®</b>	National Fire Protection Association®
<b>DD</b>	Distribution Device	<b>nm</b>	Nanometer
<b>DNS</b>	Domain Name Server	<b>PBX</b>	Private Branch Exchange
<b>DSL</b>	Digital Subscriber Line	<b>POTS</b>	Plain Old Telephone Service
<b>DTMF</b>	Dual Tone Multi-Frequency	<b>PVC</b>	Polyvinyl Chloride
<b>DTV</b>	Digital Television	<b>RBOC</b>	Regional Bell Operation Company
<b>EF</b>	Entrance Facility	<b>RCDD</b>	Registered Communications Distribution Designer
<b>EIA</b>	Electronic Industries Alliance	<b>RF</b>	Radio Frequency
<b>ELFEXT</b>	Equal Level Far-End Crosstalk	<b>RJ</b>	Registered Jack
<b>EMC</b>	Electromagnetic Compatibility	<b>RMS</b>	Rock Mount Space
<b>EMIEMR</b>	Electromagnetic Interference Electromagnetic Radiation	<b>SC</b>	Subscriber Connector
<b>ER</b>	Equipment Room	<b>SCTE</b>	Society of Cable Telecommunications Engineers
<b>FCC</b>	Federal Communications Commission	<b>ScTP</b>	Screened Twisted-Pair
<b>FD</b>	Floor Distributor	<b>SDTV</b>	Standard Definition Television
<b>FDDI®</b>	Fiber Distributed Data Interface	<b>SOHO</b>	Small Office Home Office
<b>FEXT</b>	Far-End Crosstalk	<b>STP</b>	Shielded Twisted-Pair
<b>FIPSPUB</b>	Federal Information Processing Standard Publication	<b>TIA</b>	Telecommunications Industry Association
<b>ft</b>	Feet	<b>TO</b>	Telecommunications Outlet
<b>FTP</b>	Foil Twisted-Pair	<b>TP</b>	Transition point
<b>Gbps</b>	Gigabit Per Second	<b>TPDDI®</b>	Twisted-Pair Distributed Data Interface
<b>GHz</b>	Gigahertz	<b>TP-PMD</b>	Twisted-Pair Physical Media Dependent
<b>HC</b>	Horizontal Cross-connect	<b>TSB</b>	Telecommunications System Bulletin
<b>HDTV</b>	High-Definition Television	<b>UL®</b>	Underwriters Laboratories Inc.®
<b>HVAC</b>	Heating Ventilation and Air Conditioning	<b>UPS</b>	Uninterruptible power supply
<b>Hz</b>	Hertz	<b>USOC</b>	Universal Service Order Code
<b>IC</b>	Intermediate Cross-connect	<b>UTP</b>	Unshielded Twisted-Pair
<b>IDC</b>	Insulation Displacement Connection	<b>VoIP</b>	Voice Over Internet Protocol
<b>IDF</b>	Intermediate Distribution Frame	<b>Vrms</b>	Volts root mean square
<b>IED</b>	International Electrotechnical Commission	<b>WA</b>	Work Area
<b>IEEE®</b>	Institute of Electrical and Electronic Engineers®	<b>µm</b>	Micron; one millionth of a meter (0.000001); also micrometer
		<b>Ω</b>	Ohm

# A

**ACR (Attenuation Crosstalk Ratio)** – One of the factors that limits the distance a signal may be sent through a given medium. ACR is the ratio of the power of the received signal, attenuated by the media, over the power of the NEXT crosstalk from the local transmitter, usually expressed in decibels (dB).

**ADSL (Asymmetric Digital Subscriber Line)** – A type of DSL in which the bandwidth of the transmission system is divided asymmetrically (or unevenly) between the two directions. The data transmission rate from the central office to the customer premise is typically a much higher bandwidth than the transmission from the customer premise to the central office.

**ADSL Splitter** – A filter circuit that is installed on the customer premises, providing separate connections for the wiring that will carry ADSL and regular telephone signals. The regular voice signals and the ADSL signals run on separate wire pairs inside the customer premises.

**ADSL2+ (Asymmetric Digital Subscriber Line)** – Similar to ADSL with extended range and increase bandwidth. See ADSL.

**ATM (Asynchronous Transfer Mode)** – A very high-speed transmission technology, ATM features high bandwidth, low delay, packet-like switching and multiplexing. Utilizes fixed-size cells with header and information fields.

**Amplifier (or Amp)** – A device that uses an active component to increase the voltage or power of a signal without distorting its waveshape.

**Amplitude** – The distance between high or low points of a waveform or signal. Also referred to as wave “height”.

**Analog** – Refers to electronic signals that vary continuously over time, representing any complex value of voltage. Analog signals can vary at any single or combination of frequencies representing information by value and/or frequency rather than by state (digital).

**Analog TV** – A term used to mean conventional broadcast television technology (in use for the past 50+ years)

**Attenuation** – Loss of volume during transmission, or decrease in the power of a signal, light beam, or light wave. Measured in decibels. Opposite of gain.

**AWG (American Wire Gauge)** – Standard measuring gauge for nonferrous conductors (i.e., non-iron and non-steel). Gauge measures the diameter of a conductor (thickness of cable).

# B

**Backbone Wiring** – The physical/electrical interconnections between telecommunications closets and equipment rooms. Cross-connect hardware and cabling in the Main and intermediate Cross-Connects are considered part of the backbone wiring.

**Bandwidth** – The difference between the highest and the lowest frequencies of a transmission channel (path for information transmission). Identifies the amount of data that can be sent through a given channel. Measured in Hertz (Hz); higher bandwidth numbers mean higher data capacity.

**Baseband** – A baseband signal means (1) that there is only one signal or channel on the network or cable, usually occupying a bandwidth that starts at zero hertz. The signal has exclusive use of the cable or network, (2) the technique of sending a signal (analog or digital) on a medium without modulating the signal by another carrier signal.

**Bass** – Low-frequency audio signals below 500Hz.

**Bend Radius (Fiber)** – Radius of curvature that a fiber can bend without breaking. Also see Cable Bend Radius.

**BICSI (Building Industry Consulting Service International)** – BICSI is a non-profit professional association, for the promotion of telecom industry standards.

**Bit Error Rate (BER)** – In digital applications, the percentage of received bits in error to the total number of bits received. Usually expressed as a number to the power of 10. For example 10 to the fifth power means that one in every 100,000 bits transmitted will be wrong.

**Bluetooth** – A RF network technology intended for short range communications (less than 10 meters) in the 2.4 GHz band to connect devices such as desktop computers, wireless phones, printers, etc.

**BNC connector** – Short for Bayonet Neill Concelman connector, a BNC connector is typically used with the RG-58 or RG-59 coaxial cable on professional electronic equipment. The connector is bayonet-style meaning that it is put in then turned and locked in.

**Broadband** – A broadband network or communications medium refers to its ability to support multiple channels of information (analog or digital) typically using some form of frequency division multiplexing. The term is also used to refer to “high speed” communications in general.

**Buffer Coating** – Protective material coating applied to fibers. Stated in microns.

**Bus** – A network topology in which nodes are connected to a single cable with terminations at each end.

# C

**Cable Assembly** – A fixed length of cable with connectors installed on both ends. Sometimes called a Patch Cord, or Patch Cable.

**Cable Bend Radius** – The amount of bend that can occur before a cable may sustain damage or increased attenuation.

**Cable Modem** – a gateway device that connects to a cable service provider network and converts the digital channel used for Internet data to a local area network format such as 10BaseT Ethernet.

**Category 3 (CAT3)** – A Category of Performance for inside wire and cable systems. Commonly used for voice applications and data to 10 Mbps. Defined by FCC Part 68, ANSI/EIA/TIA-568, TIA TSB-36 and TIA TSB-40

**Category 5 (CAT5)** – A Category of Performance for inside wire and cable systems. Used in support of voice and data applications requiring a carrier frequency of up to 100 MHz. Now the most common cabling being installed for LAN connectivity. Defined by FCC Part 68, EIA/TIA-568, TIA TSB-36 and TIA TSB-40.

**Category 5e, Enhanced (CAT5e)** – A Category of Performance for inside wire and cable. Used in support of signaling rates of up to 100 MHz over distances of up to 100 meters. Calls for tighter twists, electrical balancing between pairs and fewer cable anomalies. CAT5e is intended to support 100Base-T, ATM and Gigabit Ethernet and wiring under development.

**Category 6 (CAT6)** – A Category of Performance for inside wire and cable. Category 6 is intended to specify the best performance that UTP (Unshielded Twisted Pair) and screened twisted-pair cabling can be designed to deliver based on current technology. Used in support of signaling rates of up to 250 MHz. CAT6 is intended to support 100Base-T, ATM, 10 Gigabit Ethernet among others.

**Category of Performance** – Cabling and cabling component standard adopted by the telecommunications industry.

**CEDIA (Custom Electronics Design & Installation Association)** – An international trade association of companies that specialize in designing and installing electronic systems for the home.

**Cladding** – The transparent material, usually glass, that surrounds the core of an optical fiber, causing any dispersed light to be reflected back into the central core, thereby helping to maintain signal strength over long distances.

**Cleaving** – To cut the end of fiber at 90 degrees with as few rough edges as possible before a fiber termination.

**CO (Central Office)** – Telephone company facility where subscribers' lines are joined to switching equipment for connection to each other, locally and long distance. Sometimes the same as the overseas term “public exchange”.



**Coaxial Cable** – A cable composed of an insulated central conducting wire wrapped in another cylindrical conductor (the shield). The whole thing is usually wrapped in another insulating layer and an outer protective layer. A coaxial cable has great capacity to carry vast quantities of information. It is typically used in high-speed data and CATV applications.

**Compliance** – A wiring device that meets all characteristics of a standard is said to be in compliance with that standard.

**Conductor** – Any substance, usually a wire or cable, that can carry an electrical current.

**Cone** – The cone-shaped part of the speaker that works as a piston to cause air motion and consequently sound.

**Connecting Block** – Also called a terminal block, punch down block, quick connect block, or cross-connect block. A plastic block containing metal wiring terminals to establish connections from one group of wires to another. Usually each wire can be connected to several other wires in a bus or common arrangement. There are several types of connecting blocks: 66 clip, BIX, Krone, 110, etc. A connecting block has insulation displacement connections (IDCs), which means you don't have to remove insulation from around the wire conductor before you "punch it down" (terminate it).

**Connector** – A device that connects wires or fibers in cable to equipment or other wires or fibers. Wire and optical connectors most often join transmission media to equipment or cross connects. A connector at the end of a telephone cable or wire is used to join that cable to another cable with a mating connector or to some other telecommunications device. Note: Connectors are sometimes referred to as jacks, but though all jacks are connectors, not all connectors are jacks.

**Cross-connect** – Distribution system equipment used to terminate and administer communication circuits. In a wire cross-connect, jumper wires or patch cords are used to make circuit connections. In an optical cross-connect, fiber patch cords are used. The crossconnect is located in an equipment room, riser closet, or satellite closet.

**Crosstalk** – See Near-End Crosstalk.

**CSA** – Canadian Standards Association. A non-profit, independent organization which operates a listing service for electrical and electronic materials and equipment. It is the body that establishes telephone equipment (and other) standards for use in Canada.

## D

**Daisy Chain** – In telecommunications, a wiring method where each telephone jack in a building is wired in series from the previous jack. Daisy chain is NOT the preferred wiring method, since a break in the wiring would disable all jacks "down stream" from the break. See also Home Run.

**dB (Decibel)** – A dB is a unit of measure of signal strength, usually the relation between a transmitted signal and a standard signal source. Every 3 dB equals 50% of signal strength, so therefore a 6 dB loss is a loss of 75% of total signal strength. Decibel measurements are commonly used in acoustics.

**Demarcation Point** – The point of interconnection between telephone company terminal equipment and your building wiring. The protective apparatus or wiring at a subscriber's premises.

**Device** – As distinguished from equipment. In telecommunications, a "device" is the physical interconnection outlet. Equipment (a computer, phone, fax machine, etc.) then plugs into the device. See also Equipment and Plug.

**Digital Cable** – Carries several (usually 6 or 8) conventional channels that are digitally encoded, compressed, and modulated into one standard cable channel. This provides a dramatic increase in the number of channels available

**DNS (Domain Name Server)** – A computer program that matches URL names such as, www.suttlesoho.com, to their numeric IP address. The tables are maintained at local, regional and global levels by various organizations.

**Down Converting** – Process by which a high-definition signal is converted to a standard definition picture

**Drop Wire** – Outside wire pair(s) from the telco plant (cable), to a house or building for connection to a protector.

**DSL (Digital Subscriber Line)** – A generic name for a family of digital lines (also called xDSL) being provided by service providers to their local subscribers. DSL uses sophisticated modulation schemes to pack data onto a pair of copper wires. DSL can coexist on the same line as voice service.

**DTMF (Dual Tone, Multi-Frequency)** – See Tone Dial.

**DTV (Digital TV)** – Umbrella term encompassing High Definition television and several other applications including standard definition television, datacasting, multicasting, and interactivity Pair Bonding.

## E

**Efficiency** – The measure of an amplifier or speaker's ability to convert input power to work. Expressed as a percentage.

**EIA (Electronic Industries Alliance)** – A trade organization of manufacturers which set standards for use of its member companies. Many associations fall under the umbrella of EIA, though is has recently been absorbed by the TIA, or Telecommunications Industry Association. See www.eia.org or www.tiaonline.org.

**Electromagnetic Interference (EMI)** – The interference in signal transmission or reception caused by the radiation of electrical and magnetic fields.

**ELFEXT (Equal Level Far End Crosstalk)** – A calculated result, that is derived by subtracting the insertion loss of the disturbing pair from the FEXT this pair induces in an adjacent pair

**Equipment** – As distinguished from Device. Telecom equipment (computers, phone, faxes, etc.) plugs into telecommunications outlets or devices. See also Device.

**Epoxy Connector** – A type of fiber optic connector that requires a chemical bond, or epoxy.

**Ethernet** – A type of local area network used for connecting computers, printers, workstations, terminals, etc. within the same building. Ethernet is a physical link and data link protocol that operates over twisted pair wire and over coaxial cable at speeds up to 10 Mbps. Ethernet LANs are being promoted by DEC, Intel and Xerox. Compare with Token Ring.

## F

**Ferrule** – A component of a fiber optic connection that holds a fiber in place and aids in its alignment.

**FEXT (Far-End Crosstalk)** – A type of crosstalk which occurs when signals on one twisted pair are coupled to another pair as they arrive at the far end of the multi-pair cable system.

**Fiber Optics** – A technology in which light is used to transport information from one point to another. More specifically, fiber optics are thin filaments of glass through which light beams are transmitted over long distances carrying enormous amounts of data.

**Firewall** – Software and/or hardware that limits outside access from the Internet to a local area network or computer. Firewalls are the primary line of security defense for businesses and homes.

**Frequency** – The number of vibrations or cycles completed by a signal in one second. Frequency is expressed in cycles, or more commonly, Hertz (Hz).

## G

**Gateway** – A device that is responsible for connecting one network to another, typically used to connect a home LAN to the Internet via an ISP. A gateway must convert the WAN physical layer and protocol to the LAN physical layer and protocol. Typical examples of a gateway are a cable or DSL modem. The term gateway is often incorrectly used to describe a router.

# H

**HDTV (High-Definition Television)** – This is the highest resolution video picture available in Digital TV. In the U.S., the 1080i and 720p formats in a 16:9 aspect ratio are the two acceptable HDTV formats. HDTV is a component of DTV.

**Headroom** (also called Overhead or Margin) – The number of decibels by which a system exceeds the minimum defined requirements. The benefit of headroom is that it reduces the bit-error rate (BER), and provides a performance ‘safety net’ to help ensure that current and future high speed applications will run at peak accuracy, efficiency and throughput.

**Home Network** – The infrastructure, both wired and wireless, used to interconnect products and systems in the home to support voice, data, and broadband RF applications and to connect those systems and applications to outside services.

**Home Run** – Phone system wiring where the individual cables run from each phone directly back to the central switching equipment. Home run cabling can be thought of as “star” cabling. Every cable radiates out from the central equipment. All PBXs and virtually all key stems work on home run wiring. See also Star Wiring, Daisy Chain.

**Hub** – The point on a network where circuits are connected. Also, a switching node. In Local Area Networks, a hub is the core of a star as in ARCNET, StarLAN, Ethernet, and Token Ring. Hub hardware can be either active or passive. Wiring hubs are useful for their centralized management capabilities and for their ability to isolate nodes from disruption.

**Hybrid Connector** – A connector containing both optical fiber and electrical conductors.

# I

**Insertion Loss** – The difference in the amount of power received before and after something is inserted into the circuit. In optical fiber, insertion loss is the optical power loss due to all causes, usually expressed at decibel/kilometer.

**Insulation Displacement Connection (IDC)** – A type of wire termination where wire is “punched down” into a metal holder which cuts into the insulation wire and makes contact with the conductor, causing the electrical connection to be made.

**IDF (Intermediate Distribution Frame)** – A metal rack designed to connect cables and located in an equipment room or closet. Consists of components that provide the connection between inter-building cabling and the intra-building cabling, i.e. between the Main Distribution Frame (MDF) and individual phone wiring. There’s usually a permanent, large cable running between the MDF and IDF. The changes in wiring are done at the IDF. This saves confusions in wiring.

**IEEE 802.3** – IEEE stands for the Institute of Electrical and Electronic Engineers, a publishing and standards-making body responsible for many standards used in LANs, including the 802 series. Ethernet and StarLAN both follow the 802.3 standard. Typically they transit at 10 megabits per second. This is the most common local area network specification.

**Impedance** – The total opposition (i.e. resistance and reactance) a circuit offers to the flow of alternating current. It is measured in ohms, and the lower ohmic value, the better the quality of the conductor.

**Interconnect** – 1. A circuit administration point, other than a cross-connect or an information outlet, that provides capability for routing and rerouting circuits. It does not use patch cords or jumper wires, and typically is a jack-and-plug device used in smaller distribution arrangements or that connects circuits in large cables to those in smaller cables. 2. An interconnect Company is one which sells, installs, and maintains telephone systems for end users, typically businesses.

**IP (Internet Protocol)** – IP is the protocol on which the Internet is based. The IP Protocol is a standard describing software that keeps track of the Internet’s addresses for different nodes, routes outgoing messages, and recognizes incoming messages. It allows a packet of information to traverse multiple networks on the way to its final destination.

**ISDN (Integrated Services Digital Network)** – According to AT&T, today’s public switched phone network has many limitations; ISDN’s vision is to overcome these deficiencies.

# J

**Jack** – A receptacle used in conjunction with a plug to make electrical contact between communication circuits. Jacks and their associated plugs are used in a variety of connecting hardware applications including cross connects, interconnects, information outlets, and equipment connections. Jacks are used to connect cords or lines to telephone systems. A jack is the female component of a plug/jack connector system, and may be standard, modified, or keyed.

**Jacket** – Also Cable Jacket or Sheath. The outer covering applied over internal cable elements for protection.

# L

**LAN (Local Area Network)** – A short distance network (typically within a building or campus) used to link together computers and peripheral devices (such as printers) under some form of standard control.

**Loop** – 1. Typically a complete electrical circuit. 2. The loop is also the pair of wires that winds its way from the central office to the telephone set or system at the customer’s office, home or factory (i.e., ‘premises’ in telephony terms).

**Loudspeaker** – An electro-acoustic transducer that converts an electrical signal to audible sound waves.

# M

**Magnet** – The device at the back of a speaker that provides a stationary magnetic field to attract or repel the voice coil as the signal passes through it.

**Mbps (Megabits per second)** – One million bits per second. (Different from MBps, or a million bytes per second.)

**MDF (Main Distribution Frame)** – A wiring arrangement which connects the telephone lines coming from outside on one side and the internal lines on the other. A main distribution frame may also carry protective devices as well as function as a central testing point.

**MHz (Megahertz)** – A unit of frequency denoting one million Hertz (i.e., 1,000,000 cycles per second).

**Micron** – One thousandth of a millimeter, or one millionth of a meter. Can be used to specify the core diameter of fiber optic network cable.

**MMJ (Modified Modular Jack)** – A six-wire modular jack with the locking tab shifted off to the right hand side. Used in the DEC wiring system.

**Modular** – Equipment is said to be modular when it is made of “plug-in units” which can be added together to make the system larger, improve the capabilities, or expand its size.

**Modulation** – The process of applying an analog or digital baseband signal to a higher frequency analog carrier signal. It is called a carrier signal because it “carries” the baseband signal. A good example is AM radio where a radio frequency carrier signal is modulated by a voice or music signal.

**MT-RJ** – A small form factor style of fiber optic connector that is defined by its high density footprint and RJ-47 locking mechanism.

**Multimode** – An optical fiber designed to allow light to carry multiple carrier signals, distinguished by frequency or phase, at the same time. (Contrasts with singlemode.)

# N

**Nanometer (nm)** – One billionth of a meter. The nanometer is a convenient unit for describing the wavelength of light.

**Near-End Crosstalk (NEXT)** – Electrical noise coupled from one pair of wires to another within a multi-pair cable; same applies to pins in a connector.

**Network** – A network ties things together. Computer networks connect all types of computers and computer-related things – terminals, printers, modems, door entry sensors, temperature monitors, etc. The networks we're most familiar with are long distance ones, like phones and trains. Local Area Networks (LANs) connect computer equipment within a building or campus.

# O

**Open (Fault)** – Means that the circuit is not complete of the cable/fiber is broken.

**Outlet** – A telecommunications outlet is a single-piece cable termination assembly (typically on the floor or in the wall), containing one or more modular telecom jacks. Such jacks might be RJs, coaxial terminator, fiber optic couplers, etc. See also Device and Equipment.

# P

**Part 68 Requirements** – Specifications established by the FCC as the minimum acceptable protection communications equipment must provide the telephone network.

**Patching** – A means of connecting circuits via cords and connectors that can be easily disconnected and reconnected at another point. May be accomplished by using modular cords connected between jack fields or by patch cord assemblies that plug onto connecting blocks.

**PBX (Private Branch Exchange)** – A small, privately-owned version of the phone company's larger telephone central switching office.

**Performance** – Compare with Compliance. A device can exhibit performance characteristics without being compliant to an industry standard.

**Plug** – A male component of a plug/jack connector system. In premises wiring, a plug provides the means for a user to connect communications equipment to the communications outlet.

**Polarity** – The term describing which connection is positive and which is negative.

**POTS (Plain Old Telephone Service)** – The basic service supplying standard single line telephones, telephone lines and access to the public switched network. Just receive and place calls. No added features like Call Waiting or Call Forwarding.

**Power Sum** – A test method for four pair cable whereby the mathematical sum of pair-to-pair crosstalk from three pairs to one pair is measured.

**Premise** – In telecommunications, a term for the space occupied by a customer or authorized/joint user in a building(s) on continuous or contiguous property (except railroad rights of way, etc.) not separated by a public road or highway.

**Premise Wiring System** – The entire wiring system on the user's premises, especially the supporting wiring that connects the communications outlets to the network interface jack.

# R

**RBOC (Regional Bell Operation Company)** – Originally seven RBOCs existed, each of which owned two or more Bell Operation Companies (BOCs). The RBOCs were carved out of the old AT&T/Bell System during the divestiture of the Bell operating companies from AT&T in 1984.

**RCDD (Registered Communications Distribution Designer)** – A professional rating granted by BICSI (the Building Industry Consulting Service International). RCDDs have demonstrated a superior level of knowledge of the telecommunications wiring industry and associated disciplines.

**Return Loss** – A measure of the similarity of the impedance of a transmission line and the impedance at its terminations. It is a ratio, expressed in decibels, of the power of the out going signal to the power of the signal reflected back.

**RG** – Original military designations for 75-ohm coaxial cables. RG stands for Radio Grade and was used to designate the part number of the cable.

**RG-6** – The most commonly-recognized variety of RG-6 is CATV distribution coax, used to route cable television signals to and within homes, and RG-6 type cables have become the standard for CATV, mostly replacing the smaller RG-59, in recent years. CATV distribution coax typically has a copper-coated steel center conductor and a combination aluminum foil/aluminum braid shield, typically with low coverage (about 60%). RG-6 type cables are also used in professional video applications, carrying either baseband analog video signals or serial digital (SDI) signals; in these applications, the center conductor is ordinarily solid copper, the shielding is much heavier (typically aluminum foil/95% copper braid), and tolerances are more tightly controlled, to improve impedance stability. RG-6 cables typically are fitted with some type of connector at each end; in CATV distribution applications, these are typically F connector style; in professional baseband video, BNC connectors; and in consumer a/v applications other than RF and CATV, RCA plugs.

**RG-59** – is a specific type of coaxial cable, often used for low-power video and RF signal connections. The cable has a characteristic impedance of 75 ohms. It can be used at baseband video frequencies or, for short distances, at broadcast frequencies. Its high-frequency losses are too great to allow its use over long distances at broadcast frequencies; in these applications, RG-6 is used instead. Typical use for these cables are to run from your satellite dish system on the outside of your home to the satellite TV receiver above your television.

**Ring** – As in Tip and Ring. One of the two wires needed to set up a telephone connection. See Tip.

**RJ (Registered Jack)** – RJs are telephone and data jacks/applications registered with the FCC. Numbers, like RJ-11, RJ-45, etc. are widely misused in the telecommunications industry. A much more precise way to identify a jack is to specify the number of positions (width of opening) and number of conductors. Example: "8-position, 8-conductor jack" or "6-position, 4-conductor jack."

**RMU (Rack Mount Unit)** – A standard unit of measure of utilized space on a rack (or frame) equal to 1.75 inches in height.

# S

**SCTE (Society of Cable Telecommunications Engineers)** – A non-profit professional association for the promotion of coaxial information and standards.

**Sensitivity** – A measurement of the sound output of a speaker or speaker system's output relative to the power put in. Typically measured in dB at 1 watt of input, 1 meter away.

**Series Wiring** – See Daisy Chain.

**Service Loop** – When a device is terminated to the wire in the communications outlet, a fair amount of "slack" should be left on the wire and wound in the box to accommodate future trimming when devices are changed out.

**Singlemode** – A fiber that allows only a single mode of light to propagate. This eliminates the main limitation to bandwidth, modal dispersion.

**Sound** – Acoustical energy in waves generally accepted to be between 20 and 20,000 cycles per second.

**Splice** – The joining of two or more cables together by connecting the conductors pair to pair.

**Standards** – Agreed principles of protocol. Standards are set by committees working under various trade and international organizations.

**Standard Definition Television (SDTV)** – Digital television that provides roughly the same resolution as existing analog television.

**Star Wiring/Star Topology** – See Home Run.

## T

**T1** – A standard for digital transmission in North America. A digital transmission link with a capacity of 1.544 Mbps (1,544,000 bits per second.) T1 lines are used for connection networks across remote distances. Bridges and routers are used to connect LANs over T1 networks.

**Talk Battery** – The DC voltage supplied by the central office to the subscriber's loop, which allows voice conversation.

**TCP/IP** – A set of protocols developed by the department of the defense to link dissimilar computers across many kinds of networks.

**Telco** – An Americanism for Telephone Company.

**Ten Base-T** – See 10Base-T at end of Glossary.

**Terminate** – To connect a wire conductor to something, typically a piece of equipment.

**TIA** – Telecommunications Industry Association. A trade organization of manufacturers which sets standards for use of its member companies. Formerly fell under the umbrella or EIA (Electronic Industries Alliance). See [www.tiaonline.org](http://www.tiaonline.org).

**Tip** – 1. The first wire in a pair of wires. (The second wire is called the “ring” wire.) 2. A conductor in a telephone cable pair which is usually connected to positive side of a battery at the telco. It is the phone industry's equivalent of Ground in a normal electrical circuit. See Ring.

**Tone Dial** – A push-button telephone dial that makes a different sound (in fact, a combination of two tones) for each number pushed. The technically correct name for tone dial is Dual Tone Multi Frequency, or DTMF.

**Token Ring** – A ring topology for a local area network (LAN) in which a supervisory frame, or token, must be received by an attached terminal or workstation before that terminal or workstation can start transmitting. The workstation with the token then transmits and uses the entire bandwidth of whatever communications media the token ring network is using. A token ring can be wired as a circle or a star, with the workstations wired to a central wiring center, or to multiple wiring centers. The most common wiring scheme is called a starwired ring. Whatever the wiring, a token ring LAN always works logically as a circle, with the token passing around the circle from one workstation to another. The advantage of token ring LANs is that media faults (broken cable) can be fixed easily, since it's easy to isolate the faults. Token rings are typically installed in centralized closets, with loops snaking to served workstations.

**Topology** – As in network topology. The geometric physical or electrical configuration describing a local communication network; the shape or arrangement of a system. The most common topologies are the bus, ring and star.

**TP-PMD** – Twisted Pair-Physical Media Dependent. Technology under review by the ANSI X3T9.5 working group that allows 100 Mbps transmission over twisted-pair cable.

**Tweeter** – A small loudspeaker responsive only to the higher acoustic frequencies and reproducing sounds of high pitch.

**Twisted Pair** – Two insulated copper wires twisted around each other to reduce induction (thus interference) from one wire to the other. The twists, or lays, are varied in length to reduce the potential for signal interference between pairs. Several sets of twisted pair wires may be enclosed in a single cable. In cables greater than 25 pairs, the twisted pairs are grouped and bound together.

## U

**UL** – Underwriters Laboratories, a privately owned company that tests to make sure that products meet safety standards. UL also administers a program for the certification of Category-Rated Cable.

**USOC** – Universal Service Order Code. An old Bell system term identifying a particular service or equipment offered under tariff.

**UTP (Unshielded Twisted Pair)** – See Twisted Pair.

## V

**VoIP (Voice over Internet Protocol)** – The technology used to transmit voice conversations over a data network using Internet Protocol.

## W

**Watt** – The basic measuring unit for electrical or acoustical power.

**Workstation** – The working area in a building required by one telecommunications user. Industry standards call for one voice drop and one data drop for each workstation. The voice drop is on 4-pair unshielded twisted pair (UTP). The data drop may be 100Ω 4-pair UTP, 150Ω 2-pair shielded twisted pair (STP), or optical fiber.

## #

**10BASE-T** – This is the IEEE standard that defines the requirement for sending information at 10 Mbps on unshielded twisted-pair cabling, and defines various aspects of running Ethernet on this cabling

**100BASE-T** – This is the IEEE standard that defines the requirement for sending information at 100 Mbps on unshielded twisted-pair cabling, and defines various aspects of running base band Ethernet on this cabling.

**1000BASE-T** – This is the proposed IEEE standard that defines the requirement for sending information at 1000 Mbps on unshielded twisted-pair cabling, and defines various aspects of running base band Ethernet on this cabling.

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# WARRANTY

## ➔ 1-YEAR STANDARD WARRANTY

Suttle warrants its complete product offering to be free of factory defects in material and workmanship for a period of One Year (1) from date of shipment. Suttle will replace, FOB factory, within One Year (1) from date of shipment any product returned with proof of failure due to factory defects, provided the product has not been subjected to alterations, misuse, negligence or accident.

The exchange of any factory defective Suttle product is at the option of Suttle and in no event does Suttle assume liability for any damage beyond refund of purchase price of its nonconforming goods, or repair or replacement of the same. Do not return any product without prior authorization. To obtain approval to return merchandise, address correspondence to Suttle Customer Service.

Suttle reserves the right to modify, replace or alter material design and/or specification where form, fit and/or function of the product is unaffected. In the event of such change the level of product quality will be retained or improved.

## ➔ SUTTLE'S 25-YEAR WARRANTY ON CERTIFIED SYSTEMS

Suttle Warrants that its Category 3, Category 5e and Category 6 Permanent Link & Channel Performance Connection Hardware products and Fiber Optic products manufactured by Suttle, or on its behalf, installed by a Suttle Certified Installer, to be free from defects in materials and workmanship. Performance will be as specified for 25 years from date of shipment when Suttle's Category 3, Category 5e and Category 6 Permanent Link and Channel Performance Connection Hardware is installed by utilizing a Suttle approved cable partner. Certification shall be as required under normal and proper use and that all passive components meet or exceed the specifications per TIA/EIA or ISO/IEC standards.

Suttle exclusive remedy and liability for Non-Compliant / Non-Performing connecting hardware per the above standards and performance criteria for a period of 25 years is as follows.

Suttle's product must be used in both termination areas defined in ANSI/TIA/EIA-568 B.1 and ANSI/TIA/EIA-570-B as Work Area and "MC" and/or "IC".

Suttle will replace product failing to meet the performance requirements of the standards when installed per the aforementioned criteria and installed by a Suttle certified company using Suttle certified installers and having applied for the warranty or received the warranty approval. Testing is defined by TIA/EIA 568-B.2-1 as Permanent Link or Channel performance.

Suttle's Warranty covering product and labor is void if the product is deemed damaged by intentional or unintentional misuse of the product in applications and/or methods not covered by the above mentioned standards.

Warranty is nontransferable, Neither the Seller nor the Manufacturer shall be liable for injury, loss or damage, whether direct or indirect, resulting from non-compliant products. Warranty is limited to the replacement of the original connectors or components supplied by Suttle and does not include lost time, system downtime.

**EXCEPT FOR THE WARRANTY DESCRIBED HEREIN, SUTTLE DOES NOT MAKE ANY FURTHER WARRANTY, IMPLIED OR EXPRESSED.**



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