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The industry embraces copper cabling solutions for better performance and noise immunity—critical elements in any network infrastructure. TE offers a broad portfolio of innovative, high-performance copper solutions comprised of industry-leading technology and backed by a 25-year performance and component warranty.

Combining products from our AMP NETCONNECT, KRONE and TrueNet portfolios, TE's copper solutions cover all applications from 1 GbE to 10 GbE. Shielded, unshielded and pre-terminated options provide our customers with the industry's strongest range of fully warranted solutions from the desktop to the data center.



Copper

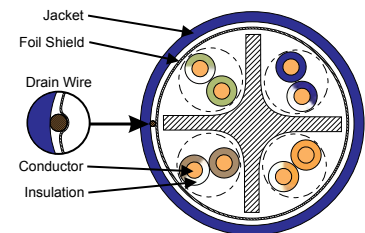
Category 6A Products

640 Series Category 6A F/UTP Twisted Pair Cable

640 Series Cat 6A F/UTP cables offer superior noise immunity at higher frequencies where applications like 10 Gigabit Ethernet reside, without hampering performance. Combined with outstanding margins on critical parameters such as crosstalk and return loss, TE640 F/UTP cables are an excellent choice for your 10 gig network. Along with unsurpassed electrical performance, 640 F/UTP cables feature an industry-low outside diameter for increased fill rates, driving down installation costs.

FEATURES

- Meets or exceeds the channel specifications of ANSI/TIA-568-C.2 Category 6A and Amendment 1 to ISO/IEC 11801:2002 Class EA up to 500 MHz when used as a component in a properly installed TE Connectivity F/UTP channel
- Foil shield for increased signal isolation
- Resistant to alien crosstalk
- AirES patented design on CMP for higher throughput and reduced size
- Independently tested by Intertek ETL SEMKO third party testing services
- Meets or exceeds all requirements for IEEE 802.3an 10 Gigabit Ethernet
- RoHS compliant



ORDERING INFORMATION

UL/NEC Rating	Pair Count	Package	OD (in)	AWG	Weight lbs/Kft	Part number
CMP	4	1000' reel	0.265"	23	42	TE640PF-XX02
CMR	4	1000' reel	0.265"	24	42	TE640RF-XX02

The following jacket colors are available. Replace "XX" with

BL-Blue WT-White GY-Gray YL-Yellow GN-Green
BK-Black RD-Red OR-Orange VT-Violet BN-Brown

Additional reel sizes available, please contact TE Customer Service.

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Category 6A Products

640 Series Category 6A U/UTP Twisted Pair Cable

TE Connectivity's 640 Series UTP cable enables 10 Gigabit Ethernet performance with an industry-low outside diameter. The 640 Series Category 6A plenum cables feature the best in class AirES technology. This patented design saves as much as 32% of the available space in cable runs and is a key component of the TE structured cabling system. The smaller diameter also saves space in the communications closet, reduces the amount of cable management accessories required and lowers the risk associated with fire and smoke in the plenum space. TE's 640 cable also features a patented oblique elliptical offset filler to minimize alien crosstalk.



FEATURES

- Unique oblique elliptical offset filler for improved alien crosstalk
- AirES patented design on CMP for higher throughput and reduced size
- Manufactured with lead-free materials
- Meets or exceeds all requirements for IEEE 802.3an 10 Gigabit Ethernet
- RoHS compliant



ORDERING INFORMATION

UL/NEC Rating	Pair Count	Package	OD (in)	AWG	Weight lbs/Kft	Part Number
CMP	4	1000' reel	0.285"	23	41	TE640P-XX02
CMR	4	1000' reel	0.295"	23	41	TE640R-XX02

The following jacket colors are available. Replace "XX" with

BL-Blue WT-White GY-Gray YL-Yellow GN-Green
BK-Black RD-Red OR-Orange VT-Violet BN-Brown

Additional reel sizes available, please contact TE Customer Service.

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Category 6A Products

Outback 640 Series, Outdoor Category 6A UTP Cable

- 4-pair, 23 AWG Category 6A cable designed for outdoor use
- Excellent transmission and weather resistant properties
- Black Polyethylene jacket for weather resistance
- Oblique elliptical offset filler to minimize alien crosstalk
- Performance characterized to 650 MHz
- Meets or exceeds all requirements for 10 Gigabit Ethernet
- Intended for outdoor installation, in buried conduit or as aerial cable
- Not intended for wet applications



ORDERING INFORMATION

Pair Count	Package	OD (in)	AWG	Weight lbs/Kft	Part Number
4	1000' Reel	0.298"	23	39	TE640OSP-BK02

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Category 6A Products

Specifications

TWISTED PAIR CABLE TEMPERATURES

Category	Condition	Riser/Plenum
Cat 6A	Storage	-4 - 176° F (-20 - 80° C)
	Operating	-4 - 140° F (-20 - 60° C)
	Installation	41 - 122° F (5 - 50° C)

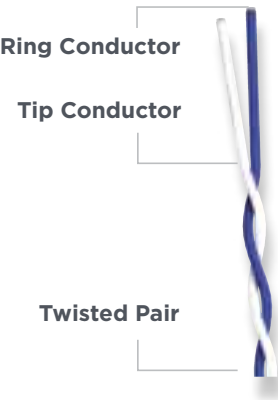


Wooden Reels

Note: Unless otherwise specified, all lengths are 1000 feet (305 meters). Other lengths and colors available. Contact TE customer service.

4-Pair Conductor Color Code

Pair		Jacket Color
1	Tip	White
	Ring	Blue 
2	Tip	White
	Ring	Orange 
3	Tip	White
	Ring	Green 
4	Tip	White
	Ring	Brown 



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Category 6A Products

Category 6A Patch Panels

TE Connectivity's Category 6A AMP-TWIST patch panels deliver the next generation of 10 GbE performance and continue the evolution of high-density solutions for the data center and LAN environments while meeting all the requirements for Category 6A ANSI/TIA and ISO standards. These are available in several different styles and port configurations. This includes: shielded, unshielded, standard flat, fixed angled, 24-port and 48-port configurations along with TE's patented dynamic angled panels.

FEATURES FOR STANDARD AND ANGLED

- Meets or exceeds the channel specifications of ANSI/TIA-568-C.2 Category 6A and Amendment 1 to ISO/IEC 11801:2002 Class EA up to 500 MHz when used as a component in a properly installed TE Connectivity XG F/UTP or U/UTP channel
- Meets or exceeds all requirements for IEEE 802.3an 10 GbE
- Ports may be individually replaced
- Standard and angled panels are packaged unloaded with jacks bagged separately for termination with SL Series jack termination tool
- Front load removable 6 pack modules
- Labels and label covers included
- Accommodates icons (sold separately)
- Standard and angled panels feature integrated bonding bar makes bonding simple and requires no extra steps in shielded applications
- UL1863 listed and Category 6A performance verified
- RoHS compliant

FEATURES FOR DYNAMIC ANGLED

- Patented angle right/left eases stress on patch cords allowing for improved cable management
- Low profile dynamic angling allows for greater flexibility and use in cabinet environments
- Universal wiring label for easy termination of either T568A/B
- Conductors can be terminated with either a KRONE or 110 tool
- 45 degree silver-plated IDCs provide secure, reliable gas-tight connection
- Includes adhesive paper labels for station identification
- Universal wiring label for easy termination of either T568A/B
- Patch panels are designed to support Gigabit Ethernet transmission speeds
- Rear wire manager included
- UL 1863 listed and Category 6A performance verified
- RoHS compliant



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Category 6A Products

Standard and Angled Panels

ORDERING INFORMATION

Footprint	Shielding	Port Count	Height	Width	Figure	Part Number
Standard	Shielded	24	1RU (1.75")	19.0"		1933319-2
		48	2RU (3.50")	19.0"	A	1933320-2
	Unshielded	24	1RU (1.75")	19.0"		2111570-1
		48	2RU (3.50")	19.0"	A	2111571-1
Angled	Shielded	24	1RU (1.75")	19.0"	B	1933321-2
		48	2RU (3.50")	19.0"		1933322-2
	Unshielded	24	1RU (1.75")	19.0"	B	2111572-1
		48	2RU (3.50")	19.0"		2111573-1
Dynamic Angled	Unshielded	24	1RU (1.75")	19.0"	C	PP24AC6AT
		48	2RU (3.50")	19.0"		PP48AC6AT



Figure A



Figure B



Figure C

Copper

Category 6A Products

Category 6A Modular Jacks

TE Connectivity's AMP NETCONNECT Category 6A AMP-TWIST modular jacks deliver the next generation of 10G performance and continue the evolution of high-density solutions for the data center and LAN environments while meeting all the requirements for Category 6A ANSI/TIA and ISO standards. The F/UTP jack offers superior noise immunity to eliminate alien crosstalk and RFI/EMI while offering integrated mechanical bonding and grounding through normal installation practices. The U/UTP jack utilizes superior technology to reduce alien crosstalk noise to enhance overall performance. The AMP-TWIST termination technology provides for the fastest most reliable termination on the market. The modular jacks contain integrated cutting blades to allow all four pairs of a four pair cable to be terminated at one time. Universal wiring labels permit termination to either T568A or T568B wiring patterns.



FEATURES

- Meets or exceeds the channel specifications of ANSI/TIA-568-C.2 Category 6A and Amendment 1 to ISO/IEC 11801:2002 Class EA up to 500 MHz when used as a component in a properly installed AMP NETCONNECT XG channel
- Termination time: about 90 seconds (using AMP NETCONNECT SL series termination tool, without lacing fixture - 1725150-3)
- Meets or exceeds all requirements for IEEE 802.3an 10 GbE
- Easy installation
- Integrated strain relief and shield clamp
- Integrated dust cover option
- Re-usable
- Universal wiring label permits wiring to T568A or T568B
- 8-Position RJ45 modular jacks for 1, 2, 3, and 4-Pair applications
- RoHS compliant
- UL1863 listed and Category 6A performance verified

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Category 6A Products

ORDERING INFORMATION

Description	Shielding	Entry	Dust Cover Option	Figure	Part Number
Cat 6A F/UTP	Shielded	Rear	without Dust Cover	A	1711342-2
			with clear Dust Cover		1711160-2
		Side	without Dust Cover	B	1711343-2
			with clear Dust Cover		1711295-2
Cat 6A U/UTP	Unshielded	Rear	without Dust Cover	C	1933476-X
			with clear Dust Cover		2111676-X
Cat 6A U/UTP Color cap	Unshielded		without Dust Cover		2111243-X
			with clear Dust Cover		2111244-X

Note: Replace -X in Cat6 U/UTP part numbers with corresponding color number as follows:
(EX: 1933476-x for blue and 1-1933476-3 for Alpine White)

-1 = Almond -5 = Orange -8 = Yellow -1--1 = Electrical Ivory
-2 = Black -6 = Blue -9 = Green -1--3 = Alpine White
-4 = Gray -7 = Red -1--0 = Violet



Figure A



Figure B



Figure C

Colored Dust Covers for Cat 6A F/UTP AMP-TWIST Modular Jacks with Integrated Dust Covers

FEATURES

- For use with AMP-TWIST modular jacks 1711160-2 and 1711295-2 only
- Replaces existing clear dust cover on 1711160-2 and 1711295-2 (jack is not included with colored dust cover)
- 9 color choices
- Provides easier port identification
- Interchangeable
- No special tooling required
- Packaged 50/bag
- Application Spec: 114-93016
- RoHS compliant

ORDERING INFORMATION

Description	Colors	Part Number
Colored Dust Covers; for Cat 6A F/UTP AMP-TWIST Modular Jacks	Light Almond	1-1711691-1
	Black	1-1711691-2
	White	1-1711691-3
	Violet	1-1711691-4
	Orange	1-1711691-5
	Blue	1-1711691-6
	Red	1-1711691-7
	Yellow	1-1711691-8
	Green	1-1711691-9



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Category 6A Products

Category 6A Shielded Cable Assemblies

TE Connectivity's Category 6A shielded patch cable assemblies are manufactured using patented techniques that create consistent performance superior to standard cable assemblies. TE Connectivity's Category 6A shielded cable assemblies are CM (riser) rated and constructed using colored, stranded cable and clear polycarbonate snagless boots.



FEATURES

- Meets or exceeds the channel specifications of ANSI/TIA-568-C.2 Category 6A shielded and Amendment 1 to ISO/IEC 11801:2002 Class EA up to 500 MHz when used as a component in a properly installed TE F/UTP channel
- Meets or exceeds all requirements for IEEE 802.3an 10 GbE
- Clear, flexible, strain relief boot maintains proper bend radius to ensure peak performance
- Non-plenum (CM rated)
- 4-Pair stranded shielded conductors
- Universal wiring (T568A/T568B)
- RoHS compliant

ORDERING INFORMATION

Description	Part Number	
RJ45 to RJ45 patch cord	T568B	TCPC-6ARFVB-XXYYF
	T568A	TCPC-6ARFVA-XXYYF

Replace XX for color:

WT = White	YL = Yellow
RD = Red	GN = Green
BL = Blue	GY = Gray

Replace YY for length:

04 = 4'	15 = 15'
07 = 7'	25 = 25'
10 = 10'	50 = 50'

Contact TE for information on additional colors and custom lengths.

Copper

Category 6A Products

Category 6A U/UTP Cable Assemblies

FEATURES

- Meets or exceeds performance requirements ANSI/TIA-568-C.2 standards
- Copper conductors in the cable pairs are stranded for superior flexibility and compacted to a near-round shape for optimum signal strength
- Snag-less plug design with built-in strain relief
- UL 1863 safety rating



Description	Part Number	
RJ45 to RJ45 patch cord	568B wiring	TCPC-6ARUVB-XXYY
	568A wiring	TCPC-6ARUVA-XXYY

Replace XX for color:

WT = White	YL = Yellow
RD = Red	GN = Green
BL = Blue	GY = Gray

Replace YY for length:

04 = 4'	15 = 15'
07 = 7'	25 = 25'
10 = 10'	50 = 50"

Contact TE for information on additional colors and custom lengths.

COPPER

Category 6A 8-pair and 20-pair Termination Blocks

TE Connectivity's HighBand cross connect solution allows for maximum network throughput to support 10 GbE and most advanced networks. The solution is comprised of high-performance disconnection modules, user friendly cable management and innovative anti-snag patch cords. It is the ideal cabling solution for companies who require efficiency, guaranteed performance and appealing aesthetics. The solution is based on Patch-by-Exception, which is a unique termination technology that is ideally suited for VoIP networks and offers material, installation and operational cost savings, making it a compelling alternative to traditional RJ45 products. TE's products maintain superior connectivity during hundreds of re-terminations and deliver the best electrical performance in the industry.

FEATURES

- Meets performance requirements of ANSI/TIA-568-C.2 standards
- 45-degree silver-plated IDCs provide secure, reliable gas-tight connections
- Color-coded for ease of termination
- Modules are terminated with the standard KRONE termination tools, and may also be terminated with a 110 tool
- Four-pair to four-pair patch cords are available for Patch-by-Exception installations
- Four-pair to RJ45 cords are available to interface with network and other equipment
- Center test port allows for circuit monitoring without service disruption
- Unique Patch-by-Exception functionality saves time and money while improving performance and aesthetics
- Eight-pair disconnect module design for use with TE TrueNet universal mounting system (UMS) and type 105 rod-mount bracket



ORDERING INFORMATION

Category 6A 8 pair block field assembly kit	Color	Dimensions	Part Number
80-pair (20 port) kit including black universal mounting kit Supports field termination of (20) 4 pair cables. Includes (10) 8-pair Category 6A blocks, (2) horizontal wire managers, (1) black or gray universal mounting bracket and (1) type 105 label holder with label and protective cover	Black	14.75" x 8.25" x 5.25" (374.7 mm x 209.6 mm x 33.4 mm)	6636 1 598-46
80-pair (20 port) kit including gray universal mounting kit Supports field termination of (20) 4 pair cables. Includes (10) 8-pair Category 6A blocks, (2) horizontal wire managers, (1) black or gray universal mounting bracket and (1) type 105 label holder with label and protective cover	Gray	14.75" x 8.25" x 5.25" (374.7 mm x 209.6 mm x 33.4 mm)	6636 1 598-06
Disconnection Module, 8-pair			6468 5 070-00

Category 6A Termination Blocks (Continued)

ORDERING INFORMATION

Description	Part Number
12-position termination block and mounting kit Includes: stainless steel 12-position mounting frame; 12 Category 6A modules with rear cable management, each module accommodating (5) 4-pair Category 6A cables; 12 label holders	6450 1 107-01



HighBand Cable Management

The cable management rings control vertical cable management between frames, ensuring that cables do not interfere when adds, moves and changes occur. The cable manager is ideal for high-density or heavily patched installations and provides a neat, clean finish to the HighBand system.

Cable troughs mounted on the top and bottom of each frame ensure superior cable management and correct bend radius between frames.



Cable Management Rings

ORDERING INFORMATION

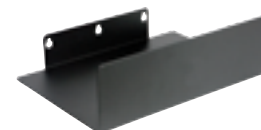
Description	Part Number
12-way Cable Management Kit Includes (2) cable management rings and (1) cover	6450 1 103-10
Cable Management Rings (2)	6450 2 156-20
Cover (1)	6450 2 158-20
Cable Troughs	
Cable Trough Top (1)	6450 2 157-10
Cable Trough Bottom (1)	6450 2 157-20



Vertical Management Cover



Top Cable Trough



Bottom Cable Trough

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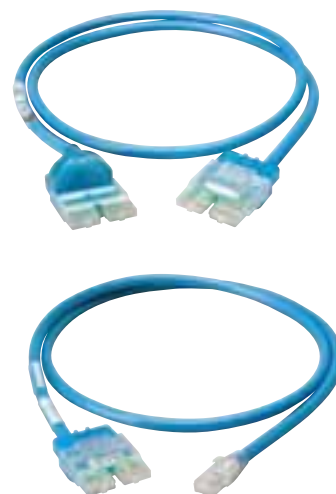
Category 6A Products

Category 6A 8-pair and 20-pair Termination Block Patch Cords

Impedance matched for use in TrueNet structured cabling systems; these Category 6A termination block patch cords exceed all performance requirements for Augmented Category 6. These cords allow direct patching capability between Category 6A 8-pair and 20-pair blocks or patching from a Category 6A termination block to an active device or an RJ45 patch panel. The plug is designed with integrated strain relievers that prevent the cable from moving at the termination point when the cable is flexed, safeguarding circuit integrity and guaranteeing maximum performance.

FEATURES

- Meets or exceeds TIA/EIA and ISO Augmented Category 6 requirements
- Protective shroud to assist in protecting the user from electrical transfer on the contacts
- Impedance matched patch cord for maximum throughput
- Flexible strain relief boot maintains proper bend radius to ensure peak performance
- UL 1863 listed
- Durable design to be in operation beyond 25-year product warranty



ORDERING INFORMATION

Description	Part Number
Category 6A 4-pair to Category 6A 4-Pair	
Category 6A 4-Pair to Category 6A 4-Pair wired 568B	TP6ATH-XXYY
Category 6A 4-Pair to Category 6A-Pair wired 568A	TP6ATH0XXYY
Category 6A 4-pair to RJ45	
Category 6A 4-Pair to RJ45 Plug wired 568B	TP6ATB-XXYY
Category 6A 4-Pair to RJ45 Plug wired 568A	TP6ATB0XXYY

Sub XX for color: BL=Blue, BK=Black, GY=Gray, RD=Red, GN=Green, YL=Yellow, WT=White

Call TE for additional colors

Sub YY for length: 04= 4 feet, 07= 7 feet, 10=10 feet, 15=15 Feet, 25=25 feet, 50=50 feet

Call TE for additional lengths

Copper

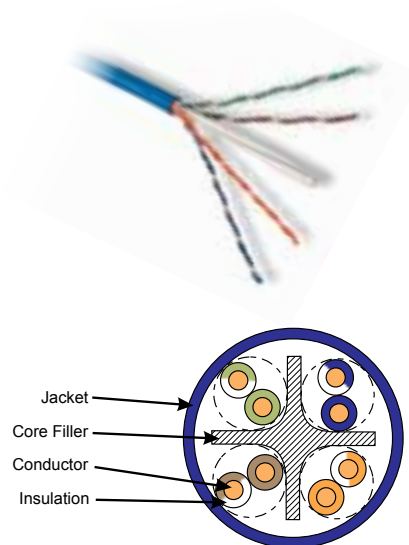
Category 6 Products

Category 6 Twisted Pair Cable

TE Connectivity offers a variety of Category 6 cables designed to meet your performance needs while providing options for differing budgetary requirements. 620 and 630 series CMP cables utilize TE's patented AirES cable technology that improves data throughput, saves space and eases installation. Through a unique design and advanced manufacturing techniques we are able to build AirES cable using air as a conductor insulator. This groundbreaking process results in a cable that incorporates superior performance while reducing overall size.

630 Series, Category 6E UTP Cable

- TE's highest performing Category 6 cable
- Performance characterized to 600 MHz
- AirES patented design on CMP for higher throughput and reduced size
- 12 dB NEXT performance above Category 6
- Star filler for electrical performance
- Meets or exceeds ANSI/TIA-568-C.2 Category 6 and ISO 11801: 2002 Class E specifications
- Independently verified by Intertek ETL SEMKO testing services
- Exceeds all requirements for Gigabit Ethernet
- RoHS compliant



ORDERING INFORMATION

UL/NEC Rating	Pair Count	Package	OD (in)	AWG	Weight lbs/Kft	Part Number
CMP	4	1000' Reel in box	0.212"	23	32	TE630P-XXRB
		1000' Reel			30	TE630P-XX02
CMR	4	1000' Reel in box	0.235"	24	33	TE630R-XXRB
		1000' Reel			31	TE630R-XX02

The following jacket colors are available. Replace XX with:

BL=Blue WT=White GY=Gray YL=Yellow GN=Green
BK=Black RD=Red OR=Orange VT=Violet BN=Brown

Additional red sizes available, please contact TE Customer Service.

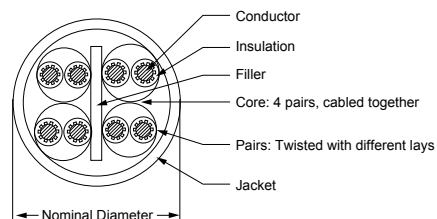
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Category 6 Products

620 Series, Category 6 UTP Cable

FEATURES

- AirES cable patented design on CMP for higher throughput
- Performance characterized to 600 MHz
- 7 dB NEXT performance above Category 6
- Meets or exceeds ANSI/TIA-568-C.2 Category 6 and ISO Class E 11801: 2002 specifications
- Available in side-by-side configuration
- Independently verified by Intertek ETL SEMKO testing services
- Exceeds all requirements for Gigabit Ethernet
- RoHS compliant



ORDERING INFORMATION

UL/NEC Rating	Pair Count	Package	OD (in)	AWG	Weight lbs/Kft	Part Number
CMP	4 Pair	1000' Reel in box	0.215"	23	31	TE620P-XXRB
		1000' Pull box			28	TE620P-XXII
		1000' Reel			28	TE620P-XX02
	4 Pair Side-by-Side	1000' Reel	0.215" x 0.430"		59	TE620PX2-XX02
CMR	4 Pair	1000' Reel in box	0.210"	24	31	TE620R-XXRB
		1000' Pull box			28	TE620R-XXII
		1000' Reel			28	TE620R-XX02
	4 Pair Side-by-Side	1000' Reel	0.210" x 0.435"		59	TE620RX2-XX02

The following jacket colors are available. Replace "XX" with

BL-Blue WT-White GY-Gray YL-Yellow GN-Green
BK-Black RD-Red OR-Orange VT-Violet BN-Brown

Additional reel sizes available, please contact TE Customer Service.

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Category 6 Products

Outback 620 Series, Outdoor Category 6 UTP Cable

- 4-pair, 23 AWG Category 6 cable designed for outdoor use
- Excellent transmission and weather resistant properties
- Polyethylene jacket for weather resistance
- Performance characterized to 600 MHz
- Meets or exceeds all requirements for Gigabit Ethernet
- Intended for outdoor installation, in buried conduit or as aerial cable
- Not intended for wet applications
- RoHS compliant



ORDERING INFORMATION

Pair Count	Package	OD (in)	AWG	Weight lbs/Kft	Color	Part Number
4	1000' Reel	0.250"	23	29	Black	TE6200SP-BK02
	3000' Reel			92		TE6200SP-BK06

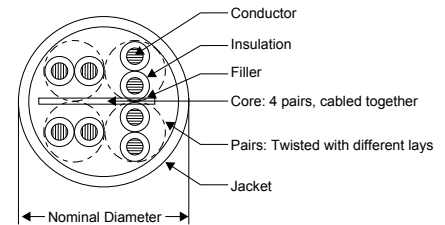
Additional reel sizes available, please contact TE Customer Service.

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Category 6 Products

610 Series, Category 6 UTP Cable

- Performance characterized to 400 MHz
- Meets ANSI/TIA-568-C.2 Category 6 and ISO Class E 11801: 2002 specifications
- Exceeds all requirements for Gigabit Ethernet
- RoHS compliant
- Independently verified by Intertek ETL SEMKO testing services



ORDERING INFORMATION

UL/NEC Rating	Pair Count	Package	OD (in)	AWG	Weight lbs/Kft	Part Number
CMP	4	1000' Pull box	0.210"	24	24	TE610P-XXII
		1000' Reel				TE610P-XX02
		3000' Reel			82	TE610P-XX06
CMR	4	1000' Pull box	0.210"	24	24	TE610R-XXII
		1000' Reel				TE610R-XX02
		3000' Reel			82	TE610R-XX06

The following jacket colors are available. Replace "XX" with

BL-Blue WT-White GY-Gray YL-Yellow GN-Green
BK-Black RD-Red OR-Orange VT-Violet BN-Brown

Additional reel sizes available, please contact TE Customer Service.

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Category 6 Products

Twisted Pair Cable Packaging Reference



RB = Reel-in-a-Box



O2 = Plastic Reels

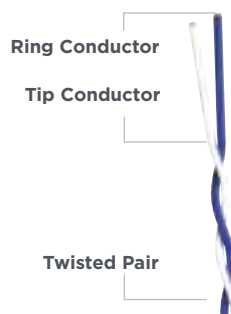


II = Pull Box

Note: Unless otherwise specified, all lengths are 1000 feet (305 meters). Other lengths and colors available. Call for details. Package types are listed in each chart.

4-PAIR CONDUCTOR COLOR CODE

Pair		Jacket Color
1	Tip	White
	Ring	Blue
2	Tip	White
	Ring	Orange
3	Tip	White
	Ring	Green
4	Tip	White
	Ring	Brown



TWISTED PAIR CABLE TEMPERATURES

Category	Condition	Riser/Plenum
Cat 6	Storage	-4 - 176° F (-20 - 80° C)
	Operating	-4 - 140° F (-20 - 60° C)
	Installation	41 - 122° F (5 - 50° C)

Category 6 Patch Panels

TE Connectivity patch panels are offered in several different styles and port configurations. This includes standard flat panels, fixed angled panels and TE's patented dynamic angled panels. All panels exceed ANSI/TIA 568-C.2 and ISO/IEC 11801 component requirements and Category 6/Class E system performance. The Category 6 system from TE complies with all of the performance requirements for current and proposed applications such as Gigabit Ethernet (1000BASE-TX), 10 and 100BASE-TX, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog and digital video and analog and digital voice (VoIP). All panels offer universal wiring labels which permit field installation to either T568A or T568B wiring, while simplifying ordering and inventorying.

FEATURES FOR SL PANELS

- All panels are packaged unloaded with jacks bagged separately for termination with SL series jack termination tool, universal wiring — may be terminated to T568A or T568B
- 12-Port mini patch panels mount vertically on 89D bracket (included)
- 48-port, 1RU patch panels:
 - Accommodate adhesive labels or icons for port identification
 - Are supplied with 48 specially designed SL series jacks (these jacks can not be purchased separately – they are supplied with panel assembly only)
- Angled panels allow elimination of horizontal cable management for higher rack densities and ease of cable dress
- Ports may be individually replaced
- RoHS Compliant

FEATURES FOR DYNAMIC ANGLE PANELS

- Patented angle right/left eases stress on patch cords allowing for improved cable management
- Low profile dynamic angling allows for greater flexibility and use in cabinet environments
- Conductors can be terminated with either a KRONE or 110 tool
- 45 degree silver-plated IDCs provide secure, reliable gas-tight connection
- Includes adhesive paper labels for station identification
- Universal wiring label for easy termination of either T568A/B
- Patch panels are designed to support Gigabit Ethernet transmission speeds
- Rear wire manager included
- Angled panels allow elimination of horizontal cable management for higher rack densities and ease of cable dress
- RoHS Compliant



Copper

Category 6 Products

Category 6 Patch Panels

ORDERING INFORMATION

Port Count	Footprint	Port Configuration	Height (Rack Mount Units)	Width	Figure	Part Number
12	89D Bracket	6 pack modules	10.00"	2.30"	A	1375013-2
24	Standard	Discrete SL Jack	1.75" (1RU)	19.00"	-	1375014-2
		6 pack modules			-	6653 1 679-24
	Dynamic Angle				E	PP24AC6T
	Angled	Discrete SL Jack			B	1499600-2
48	Standard	Discrete HD Jack*	1.75" (1RU)	19.00"	C	1933458-1*
	Angled					1933658-1*
	Standard	Discrete SL Jack	3.50" (2RU)	19.00"	-	1375015-2
		6 pack modules			-	6653 1 679-48
	Dynamic Angle				-	PP48AC6T
	Angled	Discrete SL Jack			D	1499601-2
96	Standard	Discrete SL Jack	7.00" (4RU)	19.00"	-	1375016-2

* Note: 1RU 48-port panel does not accept standard SL series jacks



Figure A



Figure B



Figure C



Figure C



Figure D

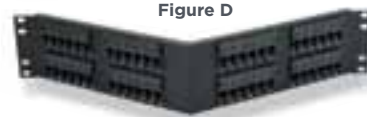


Figure D



Figure E

Copper

Category 6 Products

Category 6 Modular Jacks and Couplers

TE Connectivity's Category 6 SL series modular jacks exceed ANSI/TIA-568-C.2 and ISO/IEC 11801 component requirements and Category 6/Class E system performance. The AMP NETCONNECT Category 6 system from TE complies with all of the performance requirements for current and proposed applications such as Gigabit Ethernet (1000BASE-TX), 10 and 100BASE-TX, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog and digital video, and analog and digital voice (VoIP). The modular jacks have a slim profile and are compatible with SL series and 110Connect faceplates. The universal wiring labels permit termination to either T568A or T568B wiring patterns.



FEATURES

- Thin profile improves outlet density
- Modular Jacks available with integral dust covers
- 180° or 90° cable dress for easy termination
- Universal wiring label permits wiring to T568A or T568B
- Meets or exceeds all TIA and ISO component performance requirements
- Bend-limiting strain relief included with unshielded jacks
- UL Listed: E81956
- 8-Position RJ45 modular jacks for 1, 2, 3 and 4-pair applications
- Can be terminated with either SL series modular jack termination tool (1725150-1) or standard 110 punch-down tools
- RoHS compliant
- Bulk packaging is 25 jacks per bag, 4 bags per carton
- Colors in table are approximate
- HD Series
 - Specially designed to use with 1RU 48 port SL Patch Panels
 - Bulk packaged 24 per bag

ORDERING INFORMATION

Shielding	Cable Entry	Jack Color	SL Series Without Dust Cover	SL Series With Dust Cover	SL Series Without Dust Cover Bulk Packaged	HD Series
Unshielded	90° (Side) or 180° (Rear)	Almond	1375055-1	1375187-1	2-1375055-1	
		Black	1375055-2	1375187-2	2-1375055-2	1499925-2
		Gray	1375055-4	1375187-4	2-1375055-4	
		Orange	1375055-5	1375187-5	2-1375055-5	
		Blue	1375055-6	1375187-6	2-1375055-6	1499925-6
		Red	1375055-7	1375187-7	2-1375055-7	1499925-7
		Yellow	1375055-8	1375187-8	2-1375055-8	1499925-8
		Green	1375055-9	1375187-9	2-1375055-9	1499925-9
		Violet	1-1375055-0	1-1375187-0	3-1375055-0	
		Electrical Ivory	1-1375055-1	1-1375187-1	3-1375055-1	
		Alpine White	1-1375055-3	1-1375187-3	3-1375055-3	1-1499925-3
Shielded	180° (Rear)	Black	1375188-1*	–	–	

* Note: Shielded jacks are not available in colors, or with dust covers and do not accept strain reliefs. Colors are approximate and for reference only. Special HD series jacks used only with 1RU 48-port patch panels. Will not interface with any other panels or faceplates.

Copper

Category 6 Products

SL Series Modular Category 6 Jack Accessories

- Compact couplers for two modular plugs
- Snaps into 0.585" x 0.790" cut-outs
- Wired one-to-one

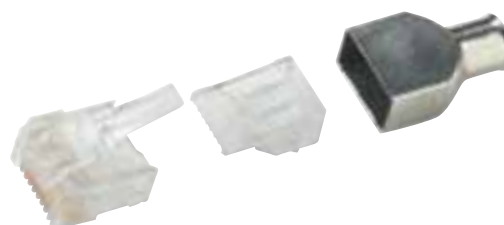


ORDERING INFORMATION

Description	Part Number	
Category 6 SL Coupler	Unshielded	2111123-1
	Shielded	2111124-1

Category 6, 8-Position Modular Plug

- Each kit includes:
 - (1) Modular plug assembly
 - (1) Wire holder
 - (1) Strain relief
- RoHS compliant
- Molded with UL94V-0 plastic
- UL Listed: E81956
- Category 6 modular plug tooling on page 3-118
- Modular plug to die set cross reference on page 3-119



ORDERING INFORMATION

Description	Conductor	Insulation O.D.	Cable Jacket O.D. in (mm)	500 per Box	100 per Box
Unshielded or Shielded	Solid 24 – 23 AWG	0.035" to 0.043" (0.89 mm to 1.09 mm)	0.20" to 0.24" (5.0 mm to 6.0 mm)	5-1375204-2	5-1375204-3
		0.035" to 0.043" (0.89 mm to 1.09 mm)	0.24" to 0.28" (6.0 mm to 7.0 mm)	5-1479185-2	5-1479185-3
	Stranded 26 – 24 AWG	0.035" to 0.043" (0.89 mm to 1.09 mm)	0.20" to 0.24" (5.0 mm to 6.0 mm)	5-1375202-2	5-1375202-3
		0.035" to 0.043" (0.89 mm to 1.09 mm)	0.24" to 0.28" (6.0 mm to 7.0 mm)	5-1479184-2	5-1479184-3

Copper










Category 6 Products

Modular Plug Boots for Category 6 Modular Plugs

- For use with Category 6, 8-position modular plugs
- Accept cables with diameters as listed
- Colors in table are approximate
- 100 per box



ORDERING INFORMATION

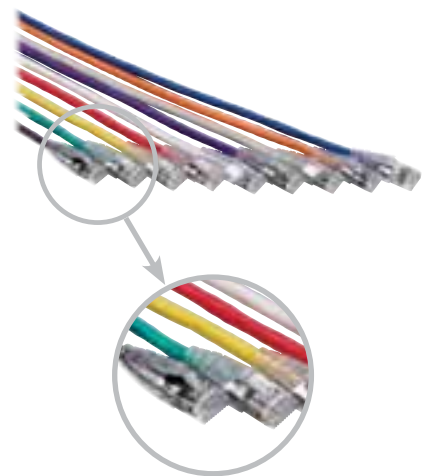
Color		Maximum Cable O.D. 0.24" (6 mm)	Maximum Cable O.D. 0.26" (6.5 mm)
White		9-737893-1	9-336513-1
Gray		9-737893-2	9-336513-2
Red		9-737893-3	9-336513-3
Blue		9-737893-4	9-336513-4
Green		9-737893-5	9-336513-5
Yellow		9-737893-6	9-336513-6
Black		9-737893-7	9-336513-7
Orange		9-737893-8	9-336513-8
Violet		9-737893-9	9-336513-9

Category 6 Cable Assemblies

An integral part of TE Connectivity's structured cabling system, these patch cords are designed to maximize transmission speeds, while reducing crosstalk.

FEATURES

- Copper conductors in the cable pairs are stranded for superior flexibility and compacted to a near-round shape for optimum signal strength
- Exceeds ANSI/TIA 568-C.2 Category 6 performance requirements
- Up to 32% smaller outer diameter than other patch cords
- Enhanced flexibility, which notably improves handling and circuit tracing
- Clear flexible strain relief boot maintains proper bend radius to ensure peak performance
- Part of the TE Connectivity 25-year system warranty



ORDERING INFORMATION

Description	Part Number	
Category 6 Copper PVC Patch Cords	T568A wiring	TCPC-6RUVA-XXYYF
	T568B wiring	TCPC-6RUVB-XXYYF
	Crossover wiring	TCPC-6RUVX-XXYYF

Contact TE for additional cable colors and lengths.

Replace YY with: 04=4', 07=7', 10=10', 15=15', 25=25', 50=50'

Replace XX with: BL=Blue, DB=Dark Blue, WT=White, GY=Gray, RD=Red YL=Yellow, GN=Green

Copper

Category 6 Products

Category 6 Termination Blocks

TE Connectivity's HighBand and Ultim8 cross connect solutions allow for maximum network throughput to support Gigabit Ethernet and support most advanced networks. The solution is comprised of high-performance disconnection modules, user friendly cable management and innovative anti-snag patch cords. It is the ideal cabling solution for companies who require efficiency, guaranteed performance and appealing aesthetics. These solutions are based on Patch-by-Exception, which is a unique termination technology that offers material, installation and operational cost savings, making it a compelling alternative to traditional RJ45 products. TE products maintain superior connectivity during hundreds of re-terminations and deliver the best electrical performance in the industry.

FEATURES

- Features disconnect contacts providing unique patch-by-exception functionality and improved administration
- Performance exceeds ANSI/TIA 568-C.2 Category 6
- A test port provides "look-both-ways" testing capability without the removal of any wires; also allows simple circuit monitoring through use of a test cord
- UL certified



Category 6 Termination Blocks

ORDERING INFORMATION

ULTIM8 BLOCK

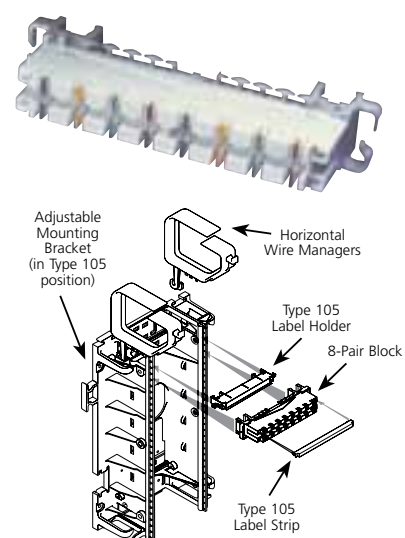
QUANTITY PER PACK: 10

Description	Dimensions (HxWxD)	Part Number
8-pair; color-coding for station pairs printed on face of block. Includes wire guides and jumper rings. Three mounting options: snap onto universal mounting bracket in Type 105 position; a Type 105 mounting bracket; Type 105 rod mount bracket	0.88" x 4.88" x 1.63" (22.5mm x 124mm x 41.4mm)	6468 5 060-06

ULTIM8 FIELD ASSEMBLY KIT

QUANTITY: 1

Description	Dimensions (HxWxD)	Part Number
96-pair (24-port) Supports field termination of (24) 4-pair cables. Includes (12) Ultim8 blocks, (2) horizontal wire managers, (1) black or gray universal mounting bracket and (1) Type 105 label holder with label and protective cover	14.75" x 8.25" x 5.25" (374.7mm x 209.6mm x 33.4mm)	
96-pair (24-port) kit; including black universal mounting kit		6636 1 596-46
96-pair (24-port) kit; including gray universal mounting kit		6636 1 596-06



HIGHBAND 25 25-PAIR BLOCK SYSTEMS

Description	Dimensions (HxWxD)	Part Number
300-pair basic system Consists of (1) back mount frame, (12) 25-pair HighBand 25 blocks and (12) label holders. Patch cords, optional cable troughs, cable management rings, covers ordered separately	20.75" x 7.88" x 8.5" (528mm x 200mm x 215.9mm)	6450 1 101-10
HighBand 25 block with rear cable manager Color-coded; terminates (6) 4-pair Category 6 cables. Rear cable manager simplifies installation; incoming cables routed through slots and held securely by built-in clips <i>Quantity: 12</i>	1.7" x 8.5" x 4.5" (43.2mm x 215.9mm x 114.3mm)	6468 5 600-10
HighBand 25 25-pair voice module with rear cable manager <i>Quantity: 12</i>	1.7" x 8.5" x 4.5" (43.2mm x 215.9mm x 114.3mm)	6468 5 300-10



HighBand 25
back mount frame



HighBand 25 block
with rear cable manager



HighBand 25 label holder
shown mounted on block

Copper

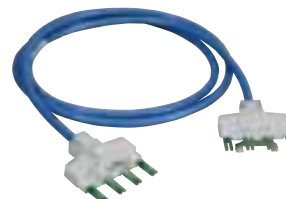
Category 6 Products

Patch Cords for Ultim8 Blocks

These patch cords allow direct patching capability between Ultim8 blocks or patching from an Ultim8 block to an active device or an RJ45 patch panel.

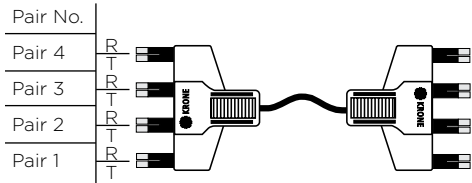
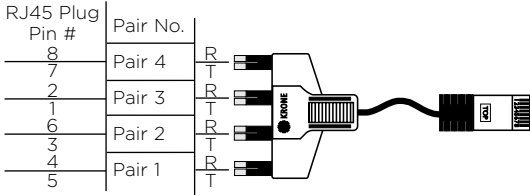
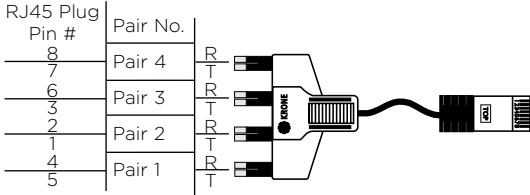


Ultim8 to RJ45 patch cord



Ultim8 to Ultim8 patch cord

ORDERING INFORMATION

Description	Cable Color	Catalog Number
Ultim8 plug to Ultim8 plug, wired straight through; wired top (cable) side only Quantity: 1 	White	TP6TH-WTXX
	Blue	TP6TH-BLXX
	Red	TP6TH-RDXX
	Green	TP6TH-GNXX
	Yellow	TP6TH-YLXX
	Gray	TP6TH-GYXX
Ultim8 plug to RJ45 plug, T568A Quantity: 1 	White	TP6TB0WTXX
	Blue	TP6TB0BLXX
	Red	TP6TB0RDXX
	Green	TP6TB0GNXX
	Yellow	TP6TB0YLXX
	Gray	TP6TB0GYXX
Ultim8 plug to RJ45 plug, T568B Quantity: 1 	White	TP6TB-WTXX
	Blue	TP6TB-BLXX
	Red	TP6TB-RDXX
	Green	TP6TB-GNXX
	Yellow	TP6TB-YLXX
	Gray	TP6TB-GYXX

*Replace XX with:

04 = 4'
07 = 7'
10 = 10'
15 = 15'
25 = 25'
50 = 50'

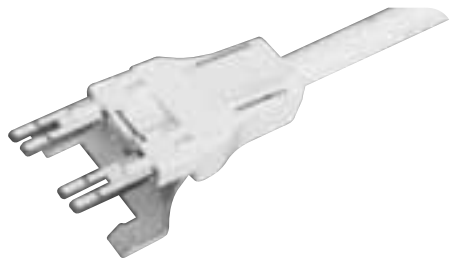
Contact TE for additional cable colors and lengths.

Copper

Category 6 Products

Ultim8 1- and 2-Pair Patch Cords

These patch cords provide direct patching capability using standard straight-through wiring. Ultim8 block plugs are keyed for proper insertion and have a latching mechanism to keep them secure. These patch cords are recommended for 10Base-T/Token Ring or voice installations using Ultim8 blocks..



Ultim8 2-pair patch cord

ORDERING INFORMATION

Description	Catalog Number
Ultim8 plug to Ultim8 plug, 1-pair, wired top (cable) side only, white cable Quantity: 1	6648 2 000-XX
Ultim8 plug to Ultim8 plug, 2-pair, wired top (cable) side only, white cable Quantity: 1	6648 2 005-XX

*Replace XX with:

- 04 = 4'
- 07 = 7'
- 10 = 10'
- 15 = 15'
- 25 = 25'
- 50 = 50'

Copper

Category 6 Products

HighBand Patch Cords

The HighBand patch cords are Category 6 and 6A compliant and come in a number of styles to suit the various applications. The 4-pair rear facing patch cord is ideally suited to the 12-way and 36-way configurations.

The 1-pair patch cord is available for patching voice 1-pair to 1-pair or can also be utilised for single pair testing.

The front facing patch cords are ideal in rack mount installations or when patching is commonplace.



1-pair Rear Facing



4-pair Front Facing



4-pair Rear Facing

ORDERING INFORMATION

Description	Quantity	Length	Color	Product Number
HighBand Category 6A Patch Cords				
4-pair Rear Facing Patch Cord	Bag of 1	1.2m	Blue	6451 2 401C-10
4-pair Rear Facing Patch Cord	Bag of 1	2.1m	Blue	6451 2 401C-20
4-pair Rear Facing Patch Cord	Bag of 1	3.0m	Blue	6451 2 401C-30
4-pair Rear Facing Patch Cord	Bag of 1	4.5m	Blue	6451 2 401C-40
4-pair Front Facing Patch Cord	Bag of 1	1.2m	Blue	6451 2 403C-10
4-pair Front Facing Patch Cord	Bag of 1	2.1m	Blue	6451 2 403C-20
4-pair Front Facing Patch Cord	Bag of 1	3.0m	Blue	6451 2 403C-30
4-pair Front Facing Patch Cord	Bag of 1	4.5m	Blue	6451 2 403C-40
4-pair Rear Facing to RJ45 Patch Cord	Bag of 1	1.2m	Blue	6451 2 400C-10
4-pair Rear Facing To RJ45 Patch Cord	Bag of 1	2.1m	Blue	6451 2 400C-20
4-pair Rear Facing To RJ45 Patch Cord	Bag of 1	3.0m	Blue	6451 2 400C-30
4-pair Rear Facing To RJ45 Patch Cord	Bag of 1	4.5m	Blue	6451 2 400C-40
4-pair Front Facing to RJ45 Patch Cord	Bag of 1	1.2m	Blue	6451 2 404C-10
4-pair Front Facing To RJ45 Patch Cord	Bag of 1	2.1m	Blue	6451 2 404C-20
4-pair Front Facing To RJ45 Patch Cord	Bag of 1	3.0m	Blue	6451 2 404C-30
4-pair Front Facing To RJ45 Patch Cord	Bag of 1	4.5m	Blue	6451 2 404C-40
HighBand Category 6 Patch Cords				
4-pair to 4-pair Rear	Bag of 1	1.2m	Blue	6451 2 701C-10
4-pair to 4-pair Rear	Bag of 1	2.1m	Blue	6451 2 701C-20
4-pair to 4-pair Rear	Bag of 1	3.0m	Blue	6451 2 701C-30
4-pair to 4-pair Rear	Bag of 1	4.5m	Blue	6451 2 701C-40
4-pair to RJ45 Rear	Bag of 1	1.2m	Blue	6451 2 700C-10
4-pair to RJ45 Rear	Bag of 1	2.1m	Blue	6451 2 700C-20
4-pair to RJ45 Rear	Bag of 1	3.0m	Blue	6451 2 700C-30
4-pair to RJ45 Rear	Bag of 1	4.5m	Blue	6451 2 700C-40
1-pair to 1-pair Rear	Bag of 1	1.2m	White	6451 2 702-10
1-pair to 1-pair Rear	Bag of 1	2.1m	White	6451 2 702-20
1-pair to 1-pair Rear	Bag of 1	3.0m	White	6451 2 702-30
1-pair to 1-pair Rear	Bag of 1	4.5m	White	6451 2 702-40
4-pair to 4-pair Front	Bag of 1	1.2m	Blue	6451 2 703C-10
4-pair to 4-pair Front	Bag of 1	2.1m	Blue	6451 2 703C-20
4-pair to 4-pair Front	Bag of 1	3.0m	Blue	6451 2 703C-30
4-pair to 4-pair Front	Bag of 1	4.5m	Blue	6451 2 703C-40
4-pair to RJ45 Front	Bag of 1	1.2m	Blue	6451 2 704C-10
4-pair to RJ45 Front	Bag of 1	2.1m	Blue	6451 2 704C-20
4-pair to RJ45 Front	Bag of 1	3.0m	Blue	6451 2 704C-30
4-pair to RJ45 Front	Bag of 1	4.5m	Blue	6451 2 704C-40

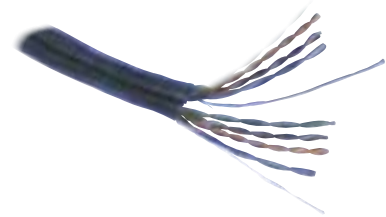
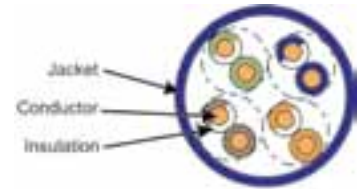
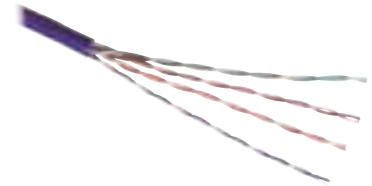
Category 5e Twisted Pair Cable

TE Connectivity offers a wide variety of Category 5e cable. The 5e portfolio includes UTP, F/UTP, as well as Outback outdoor cable. All TE cables are produced by highly automated manufacturing processes that ensure consistent quality and dependability with superior electrical performance. All TE cables are independently verified to ANSI/TIA 568-C.2.

520 Series, Category 5e UTP Cable

FEATURES

- AirES patented design on CMP for higher throughput and reduced size.
- Performance characterized to 350 MHz
- 7 dB NEXT performance above Category 5e
- Meets or exceeds ANSI/TIA-568-C.2 Enhanced Category 5 and ISO Class D 11801:2002 specifications
- Independently verified by Intertek ETL SEMKO testing services
- RoHS compliant
- 24 AWG, solid conductors
- Available in side-by-side configuration



ORDERING INFORMATION

UL/NEC Ratings	Pair Count	Package	OD (in)	AWG	Weight lbs/Kft	Part Number
CMP	4 Pair	1000' Reel in box	0.174"	24	23	TE520P-XXRB
		1000' Pull box			20	TE520P-XXII
		1000' Reel			20	TE520P-XX02
	4 Pair Side-by-Side	1000' Reel	.174"x.360"	24	48	TE520PX2-XX02
CMR	4 Pair	1000' Reel in box	0.185"	24	25	TE520R-XXRB
		1000' Pull box			21	TE520R-XXII
		1000' Reel			21	TE520R-XX02
	4 Pair Side-by-Side	1000' Reel	.185"x.380"	24	50	TE520RX2-XX02

The following jacket colors are available. Replace "XX" with

BL-Blue

WT-White

GY-Gray

YL-Yellow

GN-Green

BK-Black

RD-Red

OR-Orange

VT-Violet

BN-Brown

Additional reel sizes available, please contact TE Customer Service.

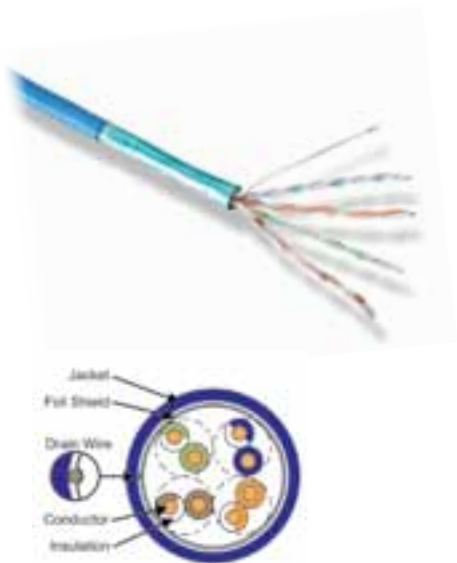
Copper

Category 5e Products

520 Series, Category 5e F/UTP Cable

FEATURES

- F/UTP design with foil shield for outstanding signal isolation
- Meets or exceeds ANSI/TIA-568-C.2 Enhanced Category 5 and ISO 11801: 2002 Class D specifications
- Exceeds all requirements for Gigabit Ethernet
- 24 AWG, solid conductors
- RoHS compliant



ORDERING INFORMATION

UL/NEC Ratings	Pair Count	Package	OD (in)	AWG	Weight lbs/Kft	Part Number
CMP	4	1000' Reel	0.252"	24	36	TE520PF-XX02
CMR	4	1000' Reel	0.250"	24	34	TE520RF-XX02

The following jacket colors are available, replace XX with:

BL-Blue WT-White
GY-Gray YL-Yellow

COPPER

Copper

Category 5e Products

Outback 520 Outdoor Series, Outdoor Category 5e UTP Cable

FEATURES

- 4-pair, 24 awg Category 5e cable designed for outdoor use
- Excellent transmission and weather resistant properties
- Polyethylene jacket for weather resistance
- Performance characterized to 350 MHz
- Meets or exceeds all requirements for Gigabit Ethernet
- Not intended for wet applications



ORDERING INFORMATION

Pair Count	Package	OD (in)	AWG	Weight lbs/Kft	Part Number	Color
4	Reel in box	0.210"	24	23	TE5200SP-BKRB	Black
4	Reel	0.210"	24	20	TE5200SP-BK02	

Additional reel sizes available, please contact TE Customer Service.

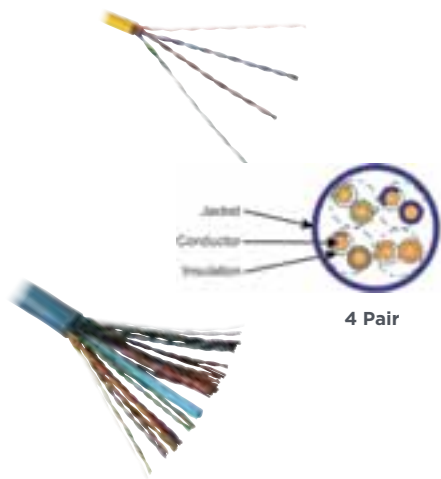
Copper

Category 5e Products

510 Series, Category 5e UTP Cable

FEATURES

- Independently verified by Intertek ETL SEMKO testing services
- Meets or exceeds ANSI/TIA-568-C.2 Enhanced Category 5 and ISO 11801: 2002 Class D specifications
- 24 AWG, solid conductors
- RoHS compliant
- Performance characterized to 100 MHz
- Meets or exceeds all requirements for Gigabit Ethernet



4 Pair

ORDERING INFORMATION

UL/NEC Ratings	Pair Count	Package	OD (in)	AWG	Weight lbs/Kft	Part Number
CMP	4	1000' Pull box	0.182"	24	20	TE510P-XXII
		1000' Reel				TE510P-XX02
CMR	4	1000' Pull box	0.185"	24	20	TE510R-XXII
		1000' Reel				TE510R-XX02

Cat5e
25 Pair

The following jacket colors are available. Replace "XX" with

BL-Blue WT-White GY-Gray YL-Yellow GN-Green
BK-Black RD-Red OR-Orange VT-Violet BN-Brown

Additional reel sizes available, please contact TE Customer Service.

UL/NEC Ratings	Pair Count	Package	OD (in)	AWG	Weight lbs/Kft	Part Number
CMP	25	1000' Reel	0.460"	24	142	TE510P25-XX02
CMR	25	1000' Reel	0.510"	24	130	TE510R25-XX02

The following jacket colors are available, replace XX with:

BL-Blue WT-White
GY-Gray

Copper

Category 5e Products

Twisted Pair Cable Packaging Reference



RB = Reel-in-a-Box



O2 = Reel

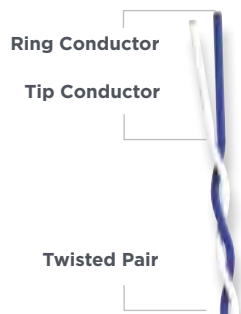


II = Pull Box

Note: Unless otherwise specified, all lengths are 1000 feet (305 meters). Other lengths and colors available.

4-PAIR CONDUCTOR COLOR CODE

Pair		Jacket Color
1	Tip	White
	Ring	Blue
2	Tip	White
	Ring	Orange
3	Tip	White
	Ring	Green
4	Tip	White
	Ring	Brown



TWISTED PAIR CABLE TEMPERATURES

Category	Condition	Riser/Plenum
Cat 5e	Storage	-4 - 176° F (-20 - 80° C)
	Operating	-4 - 140° F (-20 - 60° C)
	Installation	41 - 122° F (5 - 50° C)

Copper

Category 5e Products

25-Pair Conductor Color Code

Color Group	Pair		Conductor Jacket Color
White (1)	1	Tip	White
		Ring	Blue
	2	Tip	White
		Ring	Orange
	3	Tip	White
		Ring	Green
	4	Tip	White
		Ring	Brown
Red (2)	5	Tip	White
		Ring	Slate
	6	Tip	Red
		Ring	Blue
	7	Tip	Red
		Ring	Orange
	8	Tip	Red
		Ring	Green
Black (3)	9	Tip	Red
		Ring	Brown
	10	Tip	Red
		Ring	Slate
	11	Tip	Black
		Ring	Blue
	12	Tip	Black
		Ring	Orange
Yellow (4)	13	Tip	Black
		Ring	Green
	14	Tip	Black
		Ring	Brown
	15	Tip	Black
		Ring	Slate
	16	Tip	Yellow
		Ring	Blue
Violet (5)	17	Tip	Yellow
		Ring	Orange
	18	Tip	Yellow
		Ring	Green
	19	Tip	Yellow
		Ring	Brown
	20	Tip	Yellow
		Ring	Slate
	21	Tip	Violet
		Ring	Blue
	22	Tip	Violet
		Ring	Orange
	23	Tip	Violet
		Ring	Green
	24	Tip	Violet
		Ring	Brown
	25	Tip	Violet
		Ring	Slate

Category 5e Patch Panels

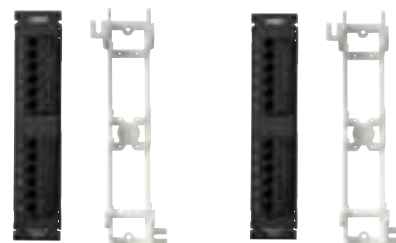
TE Connectivity's patch panels are offered in several different styles and port configurations. This includes standard flat panels, fixed angled panels and TE's patented dynamic angled panels. All panels exceed Enhanced Category 5 ANSI/TIA-568-C.2 and Category 5 ISO/IEC 11801 component requirements and Enhanced Category 5/Class D system performance. The Enhanced Category 5 System from TE complies with all of the performance requirements for current and proposed applications such as Gigabit Ethernet (1000BASE-TX), 10 and 100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog and digital video, and analog and digital voice (VoIP). Panels can be rack mounted in standard EIA 19-inch racks or wall mounted using optional 19-inch hinged wall mount brackets.

FEATURES FOR SL SERIES AND 110CONNECT PANELS

- Meet or exceed TIA and ISO Category 5e/Class D component performance requirements
- Universal wiring – ports may be terminated to T568A or T568B
- 110Connect termination patch panels may be terminated using single-wire 110 impact tool, KRONE tool, or 5-pair tool
- Angled and integrated cable management panels allow the elimination of horizontal cable management for higher rack densities and ease of cable dress
- 12-port mini patch panels mount vertically on included 89D bracket
- SL Series termination patch panels:
 - Feature individually replaceable ports
 - Are packaged unloaded with jacks bagged separately for termination with SL Series jack termination tool
- 48-port 1RU patch panels:
 - Accommodate adhesive labels or icons for port identification
 - Are supplied with 48 specially developed jacks, bagged separately for termination with SL series jack termination tool (Jacks supplied with panel assembly only; they can not be purchased separately.)
- UL1863 Listed
- RoHS compliant

FEATURES FOR DYNAMIC ANGLED PANELS

- Patented angle right/left eases stress on patch cords allowing for improved cable management
- Low profile dynamic angling allows for greater flexibility and use in cabinet environments
- Conductors can be terminated with either a KRONE or 110 tool
- 45 degree silver-plated IDCs provide secure, reliable gas-tight connection
- Includes adhesive paper labels for station identification
- Universal wiring label for easy termination of either T568A/B
- Patch panels are designed to support Gigabit Ethernet transmission speeds
- Rear Wire Manager included
- TrueNet ID Tab adapter bezel included for use with TrueNet ID Tabs
- UL1863 Listed
- RoHS compliant



SL Series Panels

Back Detail

Front Detail



110Connect Panels

Back Detail

Front Detail



Dynamic Angled Panels

Copper

Category 5e Products

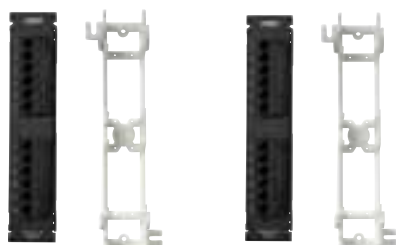


Figure A

Figure B



Figure C - Angled



Figure D - Integrated Cable Management



Figure E - Standard



Figure F - Standard



Figure G - Standard



Figure H - Angled



Figure I - Angled



Figure J - Dynamic Angled

ORDERING INFORMATION

Port Count	Footprint	Port Configuration	Height (Rack Mount Units)	Width	Figure	Part Number
12	89D Bracket	Discrete SL Jack	10.00"	2.30"	A	1479153-2
		6 pack modules			B	406390-1
	Standard		1.75" (1RU)	19.00"	-	406981-1
24	Standard	Discrete SL Jack	1.75" (1RU)	19.00"	-	1479154-2
					-	406330-1
	Dynamic Angle	6 pack modules			J	PP24AC5ET
	Integrated Cable Management				D	1479206-1
	Angled	Discrete SL Jack			C	1499602-2
48	Standard	Discrete HD Jack*	1.75" (1RU)	19.00"	E	1933457-1*
	Angled				H	1933657-1*
	Standard	Discrete SL Jack	3.50" (2RU)		F	1479155-2
		6 pack modules			G	406331-1
	Dynamic Angle				-	PP48AC5ET
	Angled	Discrete SL Jack			I	1499603-2
96	Standard	Discrete SL Jack	7.00" (4RU)	19.00"	-	1479156-2
		6 pack modules			-	406332-1

*Note: 1RU 48-port panel does not accept standard SL Series jacks

Copper

Category 5e Products

Category 5e Modular Jacks and Couplers

TE Connectivity's Category 5E SL Series Modular Jacks exceed Enhanced Category 5 ANSI/TIA-568-C.2 and Category 5 ISO/IEC 11801 component requirements and Enhanced Category 5/Class D system performance. The AMP NETCONNECT Enhanced Category 5 System from TE complies with all of the performance requirements for current and proposed applications such as Gigabit Ethernet (1000BASE-TX), 10 and 100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog and digital video, and analog and digital voice (VoIP).



SL Series Category 5e Modular Jacks

FEATURES

- Thin profile improves outlet density
- Modular jacks available with integral dust covers
- 180° or 90° cable dress for easy termination
- Universal wiring label permits wiring to T568A or T568B
- Meets or exceeds all TIA and ISO component performance requirements
- Bend-limiting strain relief included with unshielded jacks
- UL Listed: E81956
- 8-Position RJ45 modular jacks for 1, 2, 3 and 4-pair applications
- Can be terminated with either SL series modular jack termination tool (1725150-1) or standard 110 punch-down tools
- RoHS compliant
- The bulk option is 25 jacks per bag, 4 bags per carton
- HD Series
 - Specially designed to use with 1RU 48 port SL Patch Panels
 - Bulk packaged 24 per bag

Copper

Category 5e Products

ORDERING INFORMATION

Shielding	Cable Entry	SL Series Jack Color	SL Series Without Dust Cover	With Dust Cover	SL Series Without Dust Cover Bulk Packaged	HD Series*
Unshielded	90° (Side) or 180° (Rear)	Almond	1375191-1	1375190-1	2-1375191-1	-
		Black	1375191-2	1375190-2	2-1375191-2	1933455-2
		Gray	1375191-4	1375190-4	2-1375191-4	-
		Orange	1375191-5	1375190-5	2-1375191-5	-
		Blue	1375191-6	1375190-6	2-1375191-6	1933455-6
		Red	1375191-7	1375190-7	2-1375191-7	1933455-7
		Yellow	1375191-8	1375190-8	2-1375191-8	1933455-8
		Green	1375191-9	1375190-9	2-1375191-9	1933455-9
		Violet	1-1375191-0	1-1375190-0	3-1375191-0	-
		Electrical Ivory	1-1375191-1	1-1375190-1	3-1375191-1	-
		Alpine White	1-1375191-3	1-1375190-3	3-1375191-3	1-1933455-3
Shielded	180° (Rear)	Black	1375189-1*	-	-	-

* Note: Shielded jacks are not available in colors, or with dust covers and do not accept strain reliefs. Colors are approximate and for reference only. Special HD series jacks used only with 1RU 48-port patch panels. Will not interface with any other panels or faceplates.

SL Series Modular Coupler

FEATURES

- Compact couplers for two modular plugs
- Snaps into 0.585" x 0.790" cut-outs
- Wired one-to-one

ORDERING INFORMATION

Description	Shielding	Part Number
Category 5e SL Coupler	Unshielded	2111121-1
	Shielded	2111122-1



Category 5e SL
Unshielded Coupler

Copper

Category 5e Products

Category 5e Modular Plugs

FEATURES

- Meets TIA and ISO requirements for component performance
- Modular plug tooling will be referenced in tooling section
- Each kit includes:
 - Plug housing
 - Load bar
- Load bar helps maintain pair twist
- RoHS compliant
- Molded with UL94V-0 Plastic
- UL Listed: E81956
- Modular plug to die set cross reference will be referenced in tooling section 3-120



ORDERING INFORMATION

Description	AWG	Insulation O.D.	Cable Jacket O.D.	Conductor	Part Number	
					500 per box	100 per box
Unshielded	24	≤ 0.039" (0.99 mm)	0.190" to 0.220" (4.83 mm to 5.59 mm)	Stranded	5-558530-2	5-558530-3
	28 - 24	0.035" to 0.039" (0.89 mm to 0.99 mm)	0.190" to 0.200" (4.83 mm to 5.08 mm)	Solid	5-569278-2	5-569278-3
Shielded	26 - 24	0.035" to 0.039" (0.89 mm to 0.99 mm)	0.190" to 0.200" (4.83 mm to 5.08 mm)	Stranded	5-569552-2	5-569552-3
				Solid	5-569550-2	5-569550-3

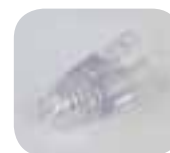
Copper

Category 5e Products

Modular Plug Boots

FEATURES

- For use with Category 3, 5 and 5e 8-position modular plugs
- Accept cables with a maximum diameter of 0.210" (5.33 mm)
- 1000 boots per box



Clear Slimline
Modular Plug Boot

ORDERING INFORMATION

Description	Maximum Cable Diameter	Color	Part Number
Modular Plug Boots	0.210" (5.33 mm)	Black	569875-1
		Almond	569875-2
		Red	569875-3
		Green	569875-4
		Blue	569875-5
		Yellow	569875-6
		Orange	569875-7
		White	569875-8
		Violet	569875-9
		Gray	1-569875-0
Slimline Modular Plug Boots	0.220" (5.59 mm)	Clear	2111399-1

NOTE: Colors are approximate and for reference only.



COPPER

External Strain Reliefs For Modular Plugs

FEATURES

- Metal strain relief that positively engages plug housing
- PRO-CRIMPER Tool and Die Set reference will be noted in tooling section
- For use with 8-position Category 3, 5 and 5e Modular Plugs only
- RoHS compliant



ORDERING INFORMATION

Description	Part Number
Not for use with Modular Plug Boots	558527-1
For use with Modular Plug Boots	558527-3

Copper

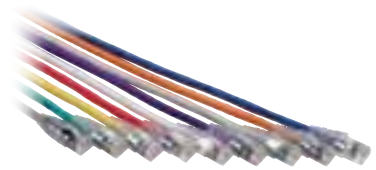
Category 5e Products

Category 5e Cable Assemblies

An integral part of TE Connectivity's structured cabling system, these patch cords are designed to maximize transmission speeds, while reducing crosstalk.

FEATURES

- Copper conductors in the cable pairs are stranded for superior flexibility and compacted to a near-round shape for optimum signal strength
- Exceeds ANSI/TIA Category 5e performance requirements
- Up to 28% smaller outer diameter than other patch cords
- Enhanced flexibility, which notably improves handling and circuit tracing
- Slimline design displays clear flexible strain relief boot maintains proper bend radius to ensure peak performance
- Part of the TE Connectivity 25-year system warranty



Slimline Cable Assemblies



Bootless, Unshielded

ORDERING INFORMATION

Description	Part Number	
Category 5e Copper PVC Patch Cords	T568A wiring Slimline	TCPC-5ERUVA-XXYYF
	T568B wiring Slimline	TCPC-5ERUVB-XXYYF
	Crossover wiring Slimline	TCPC-5ERUVX-XXYYF
	T568A wiring Bootless	TCPC-5ENUVA-XXYYF

Contact TE for additional cable colors and lengths.

Replace XX with:

BL=Blue	DB=Dark Blue	WT=White
RD=Red	YL=Yellow	GN=Green
		GY=Gray

Replace YY with:

04=4'	07=7'	10=10'
15=15'	25=25'	50=50'

SPECIFICATIONS

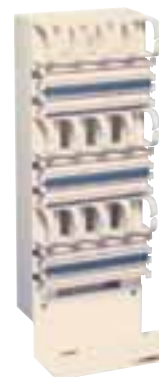
Operating Temperature Range:	-40° to 70° C (-40° to 158° F)
RJ45 Plug Interface According to:	IEC 60603-7
Transmission Performance and Reliability:	≥ ANSI/TIA-568-C.2 Category 5e ≥ ISO 11801 Class D Standard
Number of Plug Insertion Cycles:	≥ 750 (IEC/EN 60603-7)
Conductor:	24 AWG 7X32 stranded tinned copper
Jacket:	Lead free PVC
Nominal Outer Diameter:	5.3 mm ± .13 mm (0.210" ± .005")
Safety Listing:	UL 1863
Flammability Rating:	UL 94V-0

Copper

Category 5e Products

Category 5e Termination Blocks

TE Connectivity's AMP NETCONNECT 110CONNECT XC Cross Connect products exceed Enhanced Category 5 TIA/EIA-568-C.2 performance. The system complies with all of the performance requirements for current and proposed applications such as 100BASE-Tx, 155 Mbps ATM and Gigabit Ethernet. The 110Connect punchdown wiringblocks are terminated from the horizontal station field utilizing 110 single or 5-pair wire tools. Connecting blocks utilizing double-ended IDC contacts are then seated in place connecting to the equipment field.



110Connect XC Category 5e Cable Assemblies

FEATURES

- Meets or exceeds Category 5e performance requirements
- 4-Pair stranded unshielded 24 AWG conductors
- Modular RJ45 plugs feature color-matched snagless boots
- 110Connect XC to RJ45 patch cable assemblies must be selected to match wiring pattern of work area outlet wiring
- Non-plenum (CM rated)
- Universal wiring (T568A/T568B)
- RoHS compliant



RJ45 Plug



110Connect XC Plug

ORDERING INFORMATION

Connector				Part Number				
End A	End B	Pair Count	Wiring	2' (0.61 m)	4' (1.22 m)	6' (1.83 m)	8' (2.44 m)	10' (3.05 m)
110Connect XC	110Connect XC	1	-	569523-2	569523-4	569523-6	569523-8	1-569523-0
		2	-	569524-2	569524-4	569524-6	569524-8	1-569524-0
		4	-	569526-2	569526-4	569526-6	569526-8	1-569526-0
	RJ45	4	T568A	569527-2	569527-4	569527-6	569527-8	1-569527-0
		4	T568B	569528-2	569528-4	569528-6	569528-8	1-569528-0
		2	T568A, 10/100BASE-T	569685-2	569685-4	569685-6	569685-8	1-569685-0
		2	T568B, 10/100BASE-T	569669-2	569669-4	569669-6	569669-8	1-569669-0

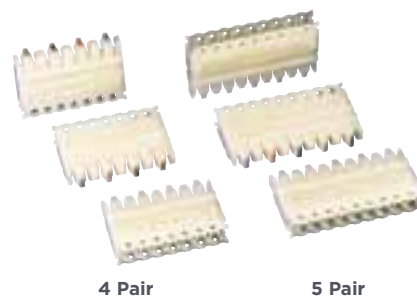
Copper

Category 5e Products

110Connect XC Category 5e Connecting Blocks

FEATURES

- Utilize double-ended insulation displacement contacts (IDC) that terminate 24-22 AWG solid or stranded conductors with a maximum O.D. of .063 inch
- Available in 4- and 5-pair sizes with the appropriate color coding
- Supports applications from voice to high-speed data
- Meets or exceeds the TIA specifications for Category 5e
- All components compatible with TE's industry standard AMP NETCONNECT impact tools, the KRONE tool and the 788J1 5-pair tool
- UL listed
- CSA and Austel approved



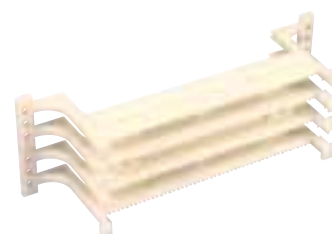
ORDERING INFORMATION

Description	Pair Count	Part Number
Connecting Blocks	4	558401-1
	5	558402-1

110Connect XC Category 5e Wiring Blocks

FEATURES

- Accepts 24-22 AWG conductor
- Blocks are available in 50, 100 and 300-pair sizes with legs for blackboard mounting
- Supports applications from voice to high-speed data
- Offers a reliable and economical high-density system
- Meets or exceeds the TIA specifications for Category 5e
- All components compatible with TE's industry standard AMP NETCONNECT impact tools, the KRONE tool and the 788J1 5-pair tool
- UL listed
- CSA and Austel approved



100 Pair with legs



100 Pair without legs

ORDERING INFORMATION

Description	Legs	Pair Count	Part Number
Wiring Blocks	With	50	558841-1
		100	558842-1
		300	558843-1
	Without	50	558839-1
		100	558840-1

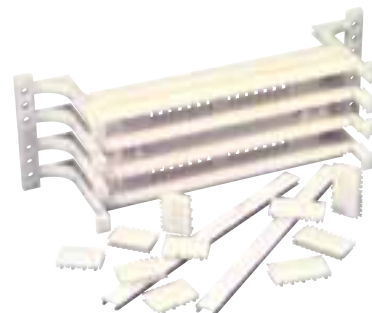
Copper

Category 5e Products

110Connect XC Category 5e Kits

FEATURES

- Kits include wiring blocks with legs, connecting blocks, designation strips and white labels for the pair counts identified
- Supports applications from voice to high-speed data
- Offers a reliable and economical high-density system
- Meets or exceeds the TIA specifications for Category 5e
- All components compatible with TE's industry standard AMP NETCONNECT impact tools, the KRONE tool and the 788J1 5-pair tool
- UL listed
- CSA and Austel approved



ORDERING INFORMATION

Pair Count	Included 4-Pair Connecting Blocks	Included 5-Pair Connecting Blocks	Part Number
50	10	2	569433-1
	0	10	569434-1
100	20	4	569439-1
	0	20	569440-1
300	60	12	569445-1
	0	60	569446-1

Adapter for 89B Bracket

FEATURES

- Used to mount a 50-pair 110Connect XC wiring block on a 89B bracket
- Two adapters are required for each assembly
- Wiring blocks and 89B brackets purchased separately

ORDERING INFORMATION

Description	Part Number
Adapter for 89B Bracket	558838-1



Copper

Category 5e Products

110Connect XC Category 5e Cross-Connect Distribution Frame Kits

FEATURES

- Reduce time needed for planning and installing a cross-connect on a backboard
- Includes metal back frame, wiring blocks, connecting blocks, cable management troughs, designation strips and appropriate hardware
- Quick and easy installation
- Available in 300 and 900-pair sizes with 4 and 5-pair connecting blocks
- Supports applications from voice to high-speed data
- Offers a reliable and economical high-density system
- Meets or exceeds the TIA specifications for Category 5e
- All components compatible with TE's industry standard AMP NETCONNECT impact tools, the KRONE tool and the 788J1 5-pair tool
- UL listed
- CSA and Austel approved



ORDERING INFORMATION

Pair Count	Included 4-Pair Connecting Blocks	Included 5-Pair Connecting Blocks	Part Number
300	60	12	569854-1
	0	60	569855-1
900	120	24	569857-1
	0	120	569858-1

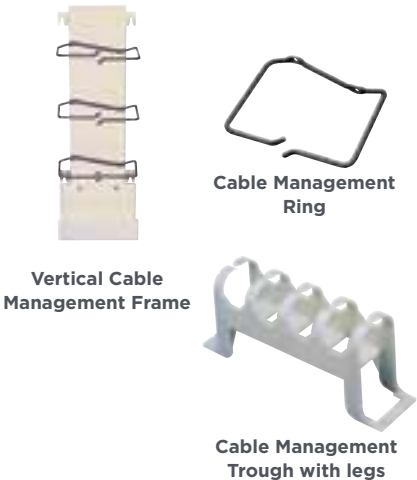
110Connect XC Cable Management

FEATURES

- Cable management frames and cable management rings provide high capacity storage of patch cables and jumper wire
- Cable Management Trough provides horizontal management and organization of patch cables and jumper wire
- Troughs are available with or without legs
- Suitable for mounting directly to a plywood backboard
- Quick and easy installation

ORDERING INFORMATION

Description	Color	Option	Part Number
Cable Management Trough	White	With Legs	569389-1
		Without Legs	569597-1
Vertical Cable Management Frame	White	300-Pair	569851-1
		900-Pair	569852-1
Cable Management Rings	Black	5.7" W	569431-1
		8.5" W	569599-1



Copper

Category 5e Products

110Connect XC Category 5e Cross-Connect Rack Mount Panel

FEATURES

- For mounting cross-connect hardware on a 19-inch rack
- Wiring block and cable management panels available
- Labels available
- Connecting blocks and plastic label covers purchased separately
- Rack mount cable management panels provide horizontal management and organization of patch cables and jumper wire
- Supports applications from voice to high-speed data
- Offers a reliable and economical high-density system
- Meets or exceeds the TIA specifications for Category 5e
- All components compatible with TE's industry standard AMP NETCONNECT impact tools, the KRONE tool and the 788J1 5-pair tool
- UL listed
- CSA and Austel approved



200 Pair 110Connect XC
Cross-Connect



Cable Management Trough

ORDERING INFORMATION

Description		Pair Count	Height	Width	Part Number
Rack Mount Panel Kits	110Connect XC Cross-Connect	100	1RU (1.75")	19"	558635-1
		200	2RU (3.50")	19"	558637-1
		400	5RU (8.75")	19"	558639-1
	Cable Management Trough	-	2RU (3.50")	19"	406641-1

Copper

Copper Trunk Solutions – MRJ21

MRJ21 Copper Cabling Solutions

MRJ21 is a high-density, small form factor modular system that provides space and time saving benefits in today's data center environment. The pluggable design satisfies the current 10/100/1000 BASE-T requirements as well as future 10 GbE system applications. The cable assemblies are factory terminated, 100% tested and serialized.

More information on the MRJ21 solution can be found at www.te.com/MRJ21.

FEATURES

- Dense RJ21 style double blade design with offset jackscrews
- Contact layout and footprint for differential pairs creates reduced crosstalk and built-in compensation
- 1.5 to 4 times the port density of 2x6 stacked modular jack (RJ45)
- 3 times the port density of an RJ21 connector
- Jackscrews for positive latching and secure cable retention
- Robust die cast cable covers provide 45° left or right cable exit for ease of routing
- 1 mm pair spacing, 1.5 mm pair-to-pair spacing
- Reduced cable bulk allows better air circulation and equipment cooling in data centers
- Approximately 30% less area and 20% less weight than 4-pair cabling
- Enables 25% less power per port than 4-pair connector on active electronics
- Pre-terminated cable assemblies



Copper

Copper Trunk Solutions – MRJ21 XG (10 GbE)

MRJ21 XG (10 GbE) System

INTRODUCING A PRE-TERMINATED, PLUG-AND-PLAY 10 GbE COPPER SYSTEM

The MRJ21 XG solution from TE Connectivity (TE) is a pre-terminated copper cabling system designed to deliver 10 GbE throughput in all architectures where copper cabling is required up to a 40 meter distance. Based on the foundation of TE's industry-leading MRJ21 high-density interface, the MRJ21 XG system helps facilitate management of data center rack and floor space, density and throughput while also capitalizing on its ease of deployment and fast installation rates.

Due to the increasing penetration of 10GBASE-T switches and blades in the data center, the need to quickly deploy a 10 GbE copper system with minimal white space consumption has become critical. The MRJ21 XG answers this challenge in 3 ways:

Space Saving – The unique MRJ21 XG trunk cable typically consumes 5% less volume than most other zone cabling solutions and up to 37% less than traditional twisted pair systems, thereby reducing containment costs and improving airflow in and around the servers and switches. This can positively impact both initial capital expenditures as well as ongoing operating costs.

Density – The MRJ21 XG offers 48 RJ45 ports in a fixed, single rack unit configuration, allowing server or switch-specific designs with maximum rack efficiency and minimal wasted space.

Throughput – The MRJ21 XG can be deployed in traditional cross-connect architectures, office LAN environments and the latest server-to-core switch configurations and supports all data rates up to and including 10 Gb/s (Gigabits per second).

FEATURES

- Multi-Component System
 - The MRJ21 XG system is comprised of pre-terminated cable assemblies, patch panels, cassettes and Cat 6A shielded patch cords
- Multiple Deployment Options
 - Supports multiple Data Center architectures, including top-of-rack (ToR), end-of-row (EoR) and middle-of-row (MoR)
- Shielded Cable
 - Gives the highest level of signal immunity to cross-talk in the lowest cross-sectional area
- Unique 45 Degree MRJ21 Plug Design
 - The MRJ21 XG trunk cable can also be ordered with a plug supporting 45 degree rear cable entry allowing bend radius maintenance in space constrained installations



48 Port Patch Panel

Copper

Copper Trunk Solutions – MRJ21 XG (10 GbE)

MRJ21 XG to MRJ21 XG Cable Assemblies

FEATURES

- Friendly field installable 10 GbE solution
- Dense double blade connector with offset jackscrews for latching
- 16 pair shielded cable with 26 AWG solid conductors
- Available with CMR sheath
- Factory terminated and 100% tested solution



ORDERING INFORMATION

Description	Part Number
MRJ21 XG to MRJ21 XG, 10 Gb/s, 180°–180° back shell; CMR sheath; White	TMRJ-XSSRW-SSXXXM
MRJ21 XG to MRJ21 XG, 10 Gb/s, 180°–45° back shell; CMR sheath; White	TMRJ-XSSRW-SAXXXM

XXX - denotes meters

Contact customer service for additional lengths.

XXX	Length
003	3 m
005	5 m
010	10 m
015	15 m
020	20 m
025	25 m
030	30 m
035	35 m
040	40 m

Category 6A Shielded Patch Cable Assemblies

TE's XG Category 6A shielded patch cable assemblies are manufactured using patented techniques that create consistent performance superior to standard cable assemblies. The cable assemblies are CM (PVC) rated and constructed using colored, stranded cable and clear polycarbonate snagless boots.

ORDERING INFORMATION

Product Description	*Part Number
RJ45 to RJ45 T568B patch cord	TCPC-6ARFVB-XXYYF
RJ45 to RJ45 T568A patch cord	TCPC-6ARFVA-XXYYF

*Replace XX for color:

WT = White YL = Yellow
RD = Red GN = Green
BL = Blue GY = Gray

*Replace YY for length:

04 = 4' 15 = 15'
07 = 7' 25 = 25'
10 = 10' 50 = 50"

Contact TE for information on additional colors and custom lengths.

Copper

Copper Trunk Solutions – MRJ21 XG (10 GbE)

MRJ21 XG 19-Inch Patch Panel, 1RU, Straight

FEATURES

- Compatible with MRJ21 XG cable assemblies for 10 GbE performance
- Optimal for use in environments where high density is required
- Straight panel with either 24 or 48 ports on 1RU
- Factory terminated and tested solution



48 Port Patch Panel

ORDERING INFORMATION

Description	Part Number
Straight panel 1RU for 10 GbE; MRJ21 Plugs: 6; RJ-45 Ports: 24; Black (RAL 9005)	2153041-1
Straight panel 1RU for 10 GbE; MRJ21 Plugs: 12; RJ-45 Ports: 48; Black (RAL 9005)	2153046-1

MRJ21 XG Cassette Patch Panel

FEATURES

- 19-inch 1RU unloaded patch panel with 4 cut outs
- Accepts MRJ21XG cassettes
- Modular rear cable bracket to manage and bundle cabling
- Includes grounding bolt



ORDERING INFORMATION

Description	Part Number
MRJ21 XG Cassette Patch Panel 1RU Flat; Black (RAL 9005)	1-1671594-1

MRJ21 XG Quick-Fit Cassette 8 Port (10 Gb/s)

FEATURES

- Compatible with MRJ21 XG cable assemblies for 10 GbE performance
- Front side: 8 x RJ45 jack (2 rows of 4 jacks)
- Rear side: 2 x MRJ21 receptacle
- Factory terminated and tested solution



ORDERING INFORMATION

Description	Part Number
MRJ21 XG Quick-Fit cassette for 10GBase-T; Black (RAL 9005)	0-2153115-1

Copper

Copper Trunk Solutions – MRJ21 1GbE

MRJ21 Ultra Slim Cable Assemblies

FEATURES

- Common and additional cable assembly lengths are available - contact your local sales engineer for more information
- Enables 25% less power per port than 4 pair connector on active electronics
- Improves uptime and space efficiency on site
- 50-60% less cable mass in pathways and spaces than comparable 4-pair cabling
- Improves airflow in cabinets and around active electronics
- 40% less weight than comparable 4-pair cabling
- Gigabit Ethernet channel performance
- 30 meters application length restrictions apply
- RoHS compliant



0.365 inch (9.2 mm),
24-pair MRJ21 Ultra Slim
Cable Size Comparison

ORDERING INFORMATION

Description	Rating	Jacket Color	Length	Part Number
MRJ21 Ultra Slim, 180° Back Shell	CMR (Riser)	Gray	2 m (6.56')	TMRJ-1UURG-SS002M
			3 m (9.84')	TMRJ-1UURG-SS003M
			4 m (13.12')	TMRJ-1UURG-SS004M
			5 m (16.40')	TMRJ-1UURG-SS005M
			6 m (19.68')	TMRJ-1UURG-SS006M
			7 m (22.97')	TMRJ-1UURG-SS007M
			8 m (26.25')	TMRJ-1UURG-SS008M
			9 m (29.53')	TMRJ-1UURG-SS009M
			10 m (32.81')	TMRJ-1UURG-SS010M
			12 m (39.37')	TMRJ-1UURG-SS012M
			15 m (49.21')	TMRJ-1UURG-SS015M
			17 m (55.77')	TMRJ-1UURG-SS017M
			20 m (65.62')	TMRJ-1UURG-SS020M
			25 m (82.02')	TMRJ-1UURG-SS025M
			30 m (98.42')	TMRJ-1UURG-SS030M

COPPER

Copper

Copper Trunk Solutions – MRJ21 1GbE

MRJ21 Cassette Panel (1GbE)

MRJ21 1 GbE cassette panels accept up to three MRJ21 cassettes.

ORDERING INFORMATION

Description	Accepts	Part Number
MRJ21 Cassette Panel	3 MRJ21 Cassettes	1479451-1



MRJ21 1 GbE Cassettes

FEATURES

- High-performance copper cabling solution
- High-density, small form factor connectivity
- Factory terminated and tested
- Modular, pluggable design
- 6-Port cassettes support applications which use four or fewer pairs including 10BASE-T, 100BASE-T and 1000BASE-T
- 12-Port cassettes support applications which use two or fewer pairs including 10BASE-T, and 100BASE-T
- Blank adapter plate for MRJ21 (1479451-1) panel only – Do not use 1777046-1 with optical fiber enclosures



Figure A
Front



Figure A
Back



Figure B



Figure C

ORDERING INFORMATION

Description	Port Count	Applications	Active Pairs Per Port	Figure	MRJ21 Connections (Back)	Part Number
Cassette	6	10/100/1000BASE-T	4	A	1	1479459-1
	12	10/100BASE-T	2	B	1	1479452-1
Blank	-	-	-	C	-	1777046-1

Copper

Copper Trunk Solutions – MRJ21 1GbE

Next Generation MRJ21 1GbE Assemblies

FEATURES

- Improved overall system performance
- New ergonomic features for easier handling
- New strain relief system provides:
 - Shorter overall connector length
 - Improved strain relief
 - Better bend radius control
- Backward compatible to existing panels
- MRJ21 cable assemblies' small foot print reduces cable bulk in pathways and conduits
- 25-pair, unshielded, 24 AWG conductors
- Improves uptime and space efficiency on site
- RoHS compliant
- MRJ21 to RJ45 hydra cable assemblies are wired so that all 4-pairs of the RJ45 are active for Gigabit Ethernet
- Most assemblies are available with riser rated (CMR) or plenum rated (CMP) jacketing
- Factory terminated, tested and serialized



Figure A MRJ21 180°
Back Shell



Figure B MRJ21 45°
Back Shell



Figure C
RJ45 x 6

ORDERING INFORMATION

Description	Figure	Connector Type	Rating	Part Number
Standard	A	Straight to Straight, 180-180°	CMR	TMRJ-1SURG-SS0xxM
			CMP	TMRJ-1SUPB-SS0xxM
	B	Straight to Angle, 180-45°	CMR	TMRJ-1SURG-SA0xxM
			CMP	TMRJ-1SUPB-SA0xxM
	C	Straight to Hydra 6-leg, 180-RJ45	CMR	TMRJ-1SURG-SH0xxM
			CMP	TMRJ-1SUPB-SH0xxM
		Angle to Hydra 6-leg, 45-RJ45	CMR	TMRJ-1SURG-AH0xxM
Ultra Slim		Straight to Straight, 180-180°	CMR	TMRJ-1UURG-SS0xxM

Note: xxM denotes length in meters

Contact Customer Service for available lengths.

Copper

Copper Trunk Solutions – MRJ21 1GbE

MRJ21 1 GbE Patch Panels

FEATURES

- High-performance copper cabling solution
- High-density, small form factor connectivity
- Factory terminated and tested
- Modular, pluggable design
- 4-Pair MRJ21 patch panels support applications which use four or fewer pairs including 10BASE-T, 100BASE-T and 1000BASE-T
- 2-Pair MRJ21 patch panels support applications which use two or fewer pairs including 10BASE-T, and 100BASE-T



Figure A



Figure B



Figure C
Front



Figure C
Back

ORDERING INFORMATION

Description	Port Count	Applications	MRJ21 Connections		Footprint	Figure	Part Number
			Back				
MRJ21 Patch Panels, 1RU	24	10/100/1000BASE-T	4		Standard	A	1777029-1
	48	10/100/1000BASE-T	8		Standard	B	1435971-1
					Angled	C	1777052-1
		10/100BASE-T	4		Standard		1435965-1

Cable Support Bars

FEATURES

- Mounts to the back of 19-inch racks
- Designed to provide additional cable support and routing control behind 19-inch racks and panels
- MRJ21 slotted manager bar for easy tie down
- Horizontal and vertical mounting option for MRJ21 tie down bar

ORDERING INFORMATION

Description	Depth	Figure	Part Number
Standard Support Bar	5"	A	557548-1
MRJ21 Cable Manager Bar	6"	B	1933352-1
	9"		1933352-2
	12"		1933352-3
	16"		1933352-4

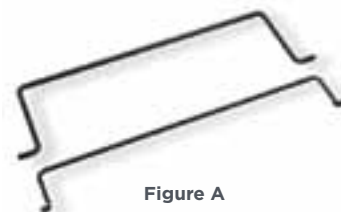


Figure A



Figure B

MRJ21 Label Holder Panels and Labels

ORDERING INFORMATION

Description	Footprint	Figure	Part Number
Label Holder Panel (Labels sold separately)	Standard	A	1777040-1
	Angled		1777054-1



Figure A

		Part Number	
		5 Sheets/Pack Labels for 22 Panels	100 Sheets/Pack Labels for 450 Panels
Label Sheet	White	1375354-1	5-1375354-1
	Blue	1375354-2	5-1375354-2
	Green	1375354-3	5-1375354-3

Copper

Copper Trunk Solutions – Sigma-Link

Sigma-Link

The Sigma-Link solutions from TE Connectivity are pre-terminated cabling systems for high-speed networking applications. Sigma-Link cable assemblies are factory terminated and tested. Designed for quick, easy, reliable operation in data centers. Plus, all components are fully compliant with TIA-942 and EN 50173-5 data center standards.

TE's Sigma-Link systems are the perfect solution for equipment cabling that links data center servers to cabling distributors or cross connects. For smaller data centers, pre-terminated Sigma-Link products can also provide a server to switch-cabling solution with an upgrade path to 40 Gbps. Sigma-Link products also support open office applications that require multiple distribution points in a raised floor or ceiling.



FEATURES

- Pre-terminated
- Faster installation time
- 100% factory tested
- Performance levels:
 - UTP: TIA-568-C.2 Category 6
 - F/UTP: TIA-568-C.2 Category 6A
- Termination configurations:
 - Cassette-to-cassette
 - Cassette-to-plug
 - Cassette-to-open-end
- Length options from 7' – 295'
- Easy, “single-handed” release feature on cassettes

Copper

Copper Trunk Solutions – Sigma-Link

Sigma-Link Cat6 UTP Cable Assemblies

FEATURES

- Meets or exceeds component performance requirements of TIA/EIA-568-C.2
- Six bundled 4-pair, solid conductor, riser (CMR) rated, Category 6 UTP cables
- Available in three configurations:
 - Cassette-to-cassette
 - Cassette-to-plug
 - Cassette-to-unterminated/open
- Each cassette houses six Category 6 SL Series modular jacks, wired with all 4-pairs active
- Other lengths available, see customer drawing for details



ORDERING INFORMATION

		Available Lengths									
Assembly		7-25' (1' Increments)		26-64' (2' Increments)		75-95' (10' Increments)		105-195' (10' Increments)		200 - 295' (10' Increments)	
End A	End B	7'	25'	26'	64'	75'	95'	105'	195'	205'	295'
Cassette	Cassette	2111290-7	2-2111290-5	2-2111290-6	6-2111290-4	7-2111290-5	9-2111290-5	2111291-5	9-2111291-5	2111292-5	9-2111292-5
	Plug	2111300-7	2-2111300-5	2-2111300-6	6-2111300-4	7-2111300-5	9-2111300-5	2111301-5	9-2111301-5	2111302-5	9-2111302-5
	Open	2111310-7	2-2111310-5	2-2111310-6	6-2111310-4	7-2111310-5	9-2111310-5	2111311-5	9-2111311-5	2111312-5	9-2111312-5

Copper

Copper Trunk Solutions – Sigma-Link

Sigma-Link Cat6A F/UTP Cable Assemblies

FEATURES

- Meets or exceeds component performance requirements of TIA/EIA-568-C.2
- Six bundled 4-pair, solid conductor, riser (CMR) rated, Category 6A F/UTP cables
- Available in three configurations:
 - Cassette-to-cassette
 - Cassette-to-plug
 - Cassette-to-unterminated/open
- Each cassette houses six Category 6A AMP-TWIST modular jacks, wired with all 4-pairs active
- Other lengths available, see customer drawing for details



ORDERING INFORMATION

Assembly		Available Lengths									
		7–25' (1' Increments)		26 – 64' (2' Increments)		75 – 95' (10' Increments)		105 – 195' (10' Increments)		200 – 295' (10' Increments)	
End A	End B	7'	25'	26'	64'	75'	95'	105'	195'	205'	295'
Cassette	Cassette	2111250-7	2-2111250-5	2-2111250-6	6-2111250-4	7-2111250-5	9-2111250-5	2111251-5	9-2111251-5	2111252-5	9-2111252-5
	Plug	2111270-7	2-2111270-5	2-2111270-6	6-2111270-4	7-2111270-5	9-2111270-5	2111271-5	9-2111271-5	2111272-5	9-2111272-5
	Open	2111280-7	2-2111280-5	2-2111280-6	6-2111280-4	7-2111280-5	9-2111280-5	2111281-5	9-2111281-5	2111282-5	9-2111282-5

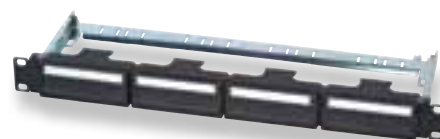
Sigma-Link Patch Panel

FEATURES

- 19-inch unloaded panel accommodates four Sigma-Link cassettes
- Features integrated cable management bar

ORDERING INFORMATION

Description	Part Number
Sigma-Link Patch Panel, 1RU H, 19" W, Standard (Flush) Footprint	1-1671215-1



Copper

Specialty Products – Universal Connectivity Platform

Universal Connectivity Platform — A Modular Approach to Infrastructure Design

TE Connectivity's Universal Connectivity Platform (UCP) provides a fully modular approach to designing data centers and telecommunications rooms. This patch panel is ideal for rapidly evolving environments because it supports both TE's plug-and-play copper and fiber solutions.

TE's UCP enables business transformation by virtue of its modularity. It is designed to accommodate all of TE's cabling media, whether copper or fiber, to support the 10, 40 and 100 Gigabit network connections in a single patch panel. By simply selecting the media, network equipment can be changed in a controlled fashion as the network demands.

Rack space is always a premium in the data center or telecommunications room, especially in existing infrastructure. The UCP is designed with this in mind, incorporating maximum flexibility for different needs and architecture. The panels can be installed in a 19 inch cabinet/rack, or installed overhead or under raised floors. By moving the panels overhead or under the floor, they can be easily shared between cabinets/racks.

Data Centers and co-location sites have undergone radical changes over the past few years and will again in the future. TE's Universal Connectivity Platform helps network managers address this change by delivering added flexibility and scalability.



FEATURES

- Multi-media Quick-Fit configurations accommodate both copper and fiber
- Compatible with MPOptimate multimode (OM3/OM4) and singlemode (OS1/OS2) fiber media
- Compatible with U/UTP, F/UTP and S/FTP copper media
- Can be installed inside a cabinet/rack, to a wire basket or under a raised floor
- Scalable to meet all applications from 100 Mbps to 100 Gbps including high-density 10 Gbps deployments

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Specialty Products – Universal Connectivity Platform

UCP Patch Panel

FEATURES

- 19" 1RU unloaded modular patch panel with 4 Quick-Fit cutouts
- Modular rear cable bracket to manage and bundle different media cabling



Description	Part Number
UCP Patch Panel 1RU Flush; includes grounding bolt	1-1671594-1

UCP Drawer Style Enclosure

FEATURES

- 19" 1RU enclosure with 4 Quick-Fit cutouts
- Mounting bracket for flush or recessed mounting



Description	Part Number
1RU Drawer style Enclosure	1933443-1

Zero RU Quick-Fit Bracket

FEATURES

- Bracket designed for copper and fiber Quick-Fit cassettes and modules
- 5" horizontal clearance required



Description	Part Number
Zero RU Quick-Fit Bracket; includes grounding bolt	1-1671548-1

Copper

Specialty Products – Universal Connectivity Platform

MRJ21 Quick-Fit Cassettes

Compatible with MRJ21 cable assemblies for superior performance.

FEATURES

- Factory terminated and tested
- Available in 1GbE and 10GbE
- High-density
 - 48 ports 1RU 1000 BASE-T
 - 32 Ports 1RU 10 GBASE-T
- Integrated bonding

Description	Part Number
MRJ21 XG Quick-Fit cassette for 10GBase-T	2153115-1
MRJ21 Quick-Fit cassette for 1000BaseT	1711970-1



10 GbE



1 GbE

STP and UTP Quick-Fit Modules

FEATURES

- Accommodates Cat 5e, 6, 6A SL jacks
- STP version has integrated bonding
- Labels included

Description	Part Number
STP Quick-Fit module	2111093-1
UTP Quick-Fit module	2111117-1
Blank Module; used to close unused cut-outs in panels	1479698-1



Quick-Fit Module



Blank Module

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Copper

Specialty Products – Universal Connectivity Platform

MPOptimate to LC 10 Gigabit Quick-Fit Cassettes

12-Fiber Trunking Solutions

FEATURES

- Factory terminated and tested
- Front: 6 x LC Duplex or 6 x LC Quad
Back: one or two 12 fiber MPO or MPOptimate connector(s)
- Available in OS2, OM3 or OM4 MPOptimate
- Port number labeling and additional label strip included
- Part numbers noted are Straight Polarity. Other polarities are available upon request



LC Duplex

Description	Fiber Type	Fiber Count	Part Number
LC duplex	50 µm, MM, OM3	12	1671205-3
	9 µm, SM, OS2	12	1671205-4
	50 µm, MM, OM4 MPOptimate	12	1671226-5
LC quad	50 µm, MM, OM3	24	1671206-3
	9 µm, SM, OS2	24	1671206-4
	50 µm, MM, OM4 MPOptimate	24	1671227-5

MPOptimate to LC 10 Gigabit Quick-Fit Cassettes

24-Fiber Trunking Solutions

FEATURES

- Factory terminated and tested
- Front: 12 x LC Duplex
Back: 1 x 24 fiber MPO connector
- Available in OM4 MPOptimate
- Port number labeling and additional label strip included



LC Quad

Description	Part Number
Cassette OM3 Straight A-A/B-B	2160266-3
Cassette OM3 Polarity Flipped A-B/B-A	1-2160266-3
Cassette OM4 Straight A-A/B-B	2160266-5
Cassette OM4 Polarity Flipped A-B/B-A	1-2160266-5

Copper

Specialty Products – Universal Connectivity Platform

MPOptimate 40 Gigabit Quick-Fit Cassettes

FEATURES

- Factory terminated and tested
- Front: 6 x 8-fiber MPO connectors
Back: 2 x 24 fiber MPO connector
- MPOptimate
- Port number labeling and additional label strip included
- Fiber path for part numbers noted is Polarity “A” or Polarity “B”



6x 40G Cassette

Description	Part Number
Cassette OM4 Straight A-A/B-B	2160530-5
Cassette OM4 Polarity Flipped A-B/B-A	1-2160530-5

MPO/MPOptimate Quick-Fit Module

FEATURES

- Quick-Fit modules with 6 or 12 MPO couplers
- Compatible with 10/40/100 Gbps MPO trunks and arrays
- Port number labeling and additional label strip included
- MPO coupler joins MPO pinned to non-pinned connectors



6x MPO Coupler Module

Description	Part Number
6x MPO coupler module; black	1671200-1
12x MPO coupler module	1711987-1

Quick-Fit Fiber Modules

FEATURES

- Available in LC and SC configurations
- Available in singlemode and multimode

Description	Fiber Type	Ferrule	Color	Part Number
12 Fiber LC	OM3/OM4	Ceramic	aqua	0-1671196-3
12 Fiber LC	SM	Ceramic	blue	0-1671196-1
24 Fiber LC	OM3/OM4	Ceramic	aqua	0-1671202-3
24 Fiber LC	SM	Ceramic	blue	0-1671202-1
12 Fiber SC	OM3/OM4	Ceramic	aqua	1671201-3
12 Fiber SC	SM	Ceramic	blue	1671201-1



12 Fiber LC



24 Fiber LC

Copper

Specialty Products – Universal Connectivity Platform

Vertical Panel Mounting Brackets

FEATURES

- Fully flexible system for installing 19" panels vertically outside of the 19" area
- Available in 1RU

Description	Part Number
1RU Vertical Panel Mounting Brackets	1-1671549-1



Subfloor Panel Holder Kit

FEATURES

- Fully flexible system for installing 19" panels underneath cabinets/racks in raised floor environments
- Pedestal distance maximum 24"
- The clamping range varies from 0.6" up to 1.2"
- Pedestal can be round or square
- Available in 2RU

Description	Part Number
Subfloor Panel Holder Kit 2RU	1671189-2



Aerial Panel Holder Kit for Wire Mesh Cable Trays

FEATURES

- Fully flexible system for installing 19" panels above cabinets/racks attached to wire mesh cable trays
- Available in 2RU

Description	Part Number
Aerial Panel Holder Kit (2RU)	1-1671603-1



Note:

For information on Copper and Fiber cable assemblies visit www.te.com/EnterpriseNetworks to view the below documents.

Copper trunk assemblies and patch cords, see document number 313948AE.

Fiber trunk assemblies and patch cords, see document numbers 402-1007 and 402-1008.

Copper

Specialty Products - Core VSM

Overcoming the Challenges of Core Switch Cable Management

The Core Vertical Switch Management (VSM) platform is an application-driven solution for the unique cabling challenges presented by vertical blade-based core switch systems.

This modular system is designed to efficiently and effectively support deployment of cabling on the front of a Cisco 7010 series chassis.

FEATURES

Cabling routes directly from switch ports to patch panels above the switch - Frees space at the sides of the mounting rails for other cabling, more effective air flow and hand access.

Logical representation of the switch ports and ease of access - The vertical patch management allows the cabling to be deployed neatly and in the same plane as the blade and port presentation. Patch fields in line with the switch ports simplify installation, MACs, documentation and troubleshooting.

Single patch cord lengths - Simplifies Day 2 activities and reduces inventory.

Simplified blade changeover - Blades and cabling can be preconfigured away from the switch, dramatically lowering changeover times and the corresponding outages, while greatly reducing patching errors.

Robust design - Provides the durability you expect with expanded hand access.

Designed to support UCP - Quick-Fit cassettes and modules allow a mix of copper and fiber in the same panel.

Supports mixed media applications and migration from fiber to copper in the same chassis.



COPPER

Copper

Specialty Products - Core VSM

Rack Mount Quick-Fit Panel

FEATURES

- Accepts up to 9 Quick-Fit modules
- Including cable support bars with tie down options
- Designed to support UCP Quick-Fit cassettes and modules allow a mix of copper and fiber in the same panel

Color: Black (RAL 9005) and galvanized finish

ORDERING INFORMATION

Description	Part Number
Rack Mount Quick-Fit Panel	0-1671907-1



Rack Mount Quick-Fit Panel



Panel with UCP QuickFit modules

Cable Management Tray

FEATURES

- Optimized to replace Cisco Nexus 7010 switch cable manager
- Provides vertical patch cord guiding
- Allows re-use of management front cover

Color: Black (RAL 9005)

ORDERING INFORMATION

Description	Part Number
Cable Management Tray for Cisco Nexus 7010	1671633-1



Copper

Specialty Products - Core VSM

MRJ21 XG Quick-Fit Cassette 8 Port (10 Gb/s)

FEATURES

- Optimized for use in combination with UCP patch panels: plug & play deployment
- Compatible with MRJ21 XG cable assemblies for 10 GbE performance
- Front side: 8 x RJ45 jack (2 rows of 4 jacks)
- Rear side: 2 x MRJ21 receptacle
- Factory terminated and tested solution
- NOTE: The MRJ21 XG System for 10 Gb/s is not backwards compatible to the MRJ21 1 Gb/s solution!



ORDERING INFORMATION

Description	Part Number
MRJ21 XG Quick-Fit cassette for 10GBase-T	O-2153115-1

MRJ21 Quick-Fit Cassette 12 port (1 Gb/s)

FEATURES

- Pre-terminated Quick-Fit cassette
- High Performance TP Cabling for guaranteed application performance
- High-density, small form factor connectivity
- Modular solution



ORDERING INFORMATION

Description	Part Number
MRJ21 Quick-Fit cassette for 1000Base-T	O-1711970-1

Copper

Specialty Products - Core VSM

CAT6A Shielded Cable Assembly

FEATURES

- Meets or exceeds the channel specifications of ANSI/TIA-568-C.2 Category
- 6A shielded and Amendment 1 to ISO/IEC 11801:2002 Class EA up to 500 MHz when used as a component in a properly installed TE F/UTP channel
- Meets or exceeds all requirements for IEEE 802.3an 10 GbE
- Clear, flexible, strain relief boot maintains proper bend radius to ensure peak performance
- Non-plenum (CM rated)
- 4-Pair stranded shielded conductors
- Universal wiring (T568A/T568B)
- RoHS compliant

ORDERING INFORMATION

Description	Part Number
CAT6A Shielded Cable Assemblies	TCPC-6ARFVB-WTXXF

CAT5E UTP Patch Cords

FEATURES

- Meets and exceeds ANSI/TIA performance requirements for CAT5E
- 4 pair stranded UTP cable
- Slim profile clear plug and boot
- Universal wiring

ORDERING INFORMATION

Description	Part Number
Patch cord RJ45 CAT5E UTP, White	TCPC-5ERUVA-WTYYP

YY- Denotes footage

Copper

Specialty Products - Core VSM

MRJ21 XG to MRJ21 XG cable assemblies (10 Gb/s shielded)

FEATURES

- Friendly field installable 10 GbE solution
- Factory terminated and 100% tested solution
- Dense double blade connector with offset jackscrews for latching
- 16 pair shielded cable with AWG 26 solid conductors

Color: White

ORDERING INFORMATION

Description	Part Number
MRJ21 XG to MRJ21 XG, 10 Gb/s, 180°-180° back shell; LSZH sheath	2111521-X
MRJ21 XG to MRJ21 XG, 10 Gb/s, 180°-45° back shell; LSZH sheath	2111522-X



Y- -X	Length
0- -3	3 m
0- -5	5 m
1- -0	10 m
1- -5	15 m
2- -0	20 m
2- -5	25 m
3- -0	30 m
3- -5	35 m
4- -0	40 m

MRJ21 to MRJ21 cable assemblies (1 Gb/s)

FEATURES

- Field installable 1 GbE solution
- Enhanced screening and improved EMC
- Factory terminated and 100 % tested solution
- Dense double blade connector with offset jackscrews for latching
- 1.5 to 4 times the port density of 2 x 6 Stacked Mod Jack (RJ-45)
- 24 pair unshielded cable with AWG 24 solid conductors

Color: Gray

ORDERING INFORMATION

Description	Part Number
MRJ21 to MRJ21, 1 Gb/s, 180°-180° back shell	2111366-X
MRJ21 to MRJ21, 1 Gb/s, 180°-45° back shell	2111371-X



Y- -X	Length
0- -5	5 m
1- -0	10 m
1- -5	15 m
2- -0	20 m
2- -5	25 m
3- -0	30 m
3- -5	35 m
4- -0	40 m
5- -0	50 m

Copper

Specialty Products - Core VSM

MPOptimate to LC Quick-Fit cassettes

FEATURES

- Pre-terminated low loss cassettes
- Front: 6 duplex LC (12 fiber) or 6 Quad receptacles (24 fiber) LC
- Back: 1 or 2 low loss MPOptimate connector(s)
- Available in straight or flipped pair version
- Optical performance for OM3/OM4:
IL \leq 0.35 dB/cassette (max.)
RL \geq 27 dB
- Port number labeling and additional label strip included



ORDERING INFORMATION

Description	Pairs straight Part Number	Pairs flipped Part Number
1 x MPOptimate to 6 x LC Duplex (12 fiber); OM4 XGA 10 Gb/s	0-1671226-5	1-1671226-5
1 x MPOptimate to 6 x LC Duplex (12 fiber); OM3 XG 10 Gb/s	0-1671226-3	1-1671226-3
2 x MPOptimate to 6 x LC Quad (24 fiber); OM4 XGA 10 Gb/s	0-1671227-5	1-1671227-5
2 x MPOptimate to 6 x LC Quad (24 fiber); OM3 XG 10 Gb/s	0-1671227-3	1-1671227-3

MPOptimate coupler Quick-Fit module

FEATURES

- Quick-Fit module with 6 or 12 MPO couplers (supporting 72 to 288 fibers)
- Port number labeling and additional label strip included
- Cable assemblies at rear of panel should be non-pinned

Color: Black (RAL 9005)



ORDERING INFORMATION

Description	Part Number
6 x MPO coupler module	0-1671200-1
12 x MPO coupler module	0-1711987-1

Copper

Specialty Products - Core VSM

MPOptimate LC patch cords

FEATURES

- Patch cords with optimized LC connectors
- Cable performance: OM4 or OM3 XG 10 Gb/s; LSZH construction
Optical performance: IL \leq 0.15 dB; RL \geq 35 dB



ORDERING INFORMATION

Description	Part Number	
OM3 and OM4 (50/125 μ m) Multimode	OM3 and OM4 (50/125 μm) multimode LC cable assemblies	
	OM3 2.0 mm zipcord LC-LC connectors	PAT-LCLC-P30CxxxM
	OM3 2.0 mm zipcord LC-SC connectors	PAT-LCSC-P30CxxxM
	OM3 2.0 mm zipcord LC-ST connectors	PAT-LCTC-P30CxxxM
	OM4 2.0 mm zipcord LC-LC connectors	PAT-LCLC-P40CxxxM
	OM3 and OM4 (50/125 μm) multimode MTRJ cable assemblies	
	OM3 1.8 mm zipcord LC-MTRJ connectors	PAT-LCMC-P30BxxxM
	OM3 1.8 mm zipcord SC-MTRJ connectors	PAT-SCMC-P30BxxxM
	OM3 and OM4 (50/125 μm) multimode SC cable assemblies	
	OM3 2.0 mm zipcord SC-SC connectors	PAT-SCSC-P30CxxxM
	OM4 2.0 mm zipcord SC-SC connectors	PAT-SCSC-P40CxxxM
	OM3 2.0 mm zipcord SC-ST connectors	PAT-SCTC-P30CxxxM
	OM3 and OM4 (50/125 μm) multimode ST cable assemblies	
	OM3 2.0 mm zipcord ST-ST connectors	PAT-TCTC-P30CxxxM
Singlemode	Singlemode LC cable assemblies	
	OS2 2.0 mm zipcord LC-LC connectors	PAT-LCLC-PS0CxxxM
	OS2 2.0 mm zipcord LC-SC connectors	PAT-LCSC-PS0CxxxM
	OS2 2.0 mm zipcord LC-ST connectors	PAT-LCTC-PS0CxxxM
	Singlemode MTRJ cable assemblies	
	OS2 1.8 mm zipcord LC-MTRJ connectors	PAT-LCMC-PS0BxxxM
	OS2 1.8 mm zipcord SC-MTRJ connectors	PAT-SCMC-PS0BxxxM
	Singlemode SC cable assemblies	
	OS2 2.0 mm zipcord SC-SC connectors	PAT-SCSC-PS0CxxxM
	OS2 2.0 mm zipcord SC-ST connectors	PAT-SCTC-PS0CxxxM
	Singlemode ST cable assemblies	
	OS2 2.0 mm zipcord ST-ST connectors	PAT-TCTC-PS0CxxxM

Note: XXX=length in meters, three digits required (example: 40 meters is 040).

Copper

Specialty Products - Core VSM

MPOptimate pre-terminated trunks

FEATURES

- Pulling socks and stealth pulling eye protect MPO connectors during installation

Color: Aqua

ORDERING INFORMATION

MPO Microcable Trunk Assemblies	Part Number
OM4 MPO Microcable Trunk Assemblies	
OM4 MPO-MPO, 12-fiber 3 mm interconnect, plenum (OFNP) rated	MPA-NCNCJ40xxxF-FF
OM4 MPO-MPO, 24-fiber backbone (2x12) with 3 mm interconnect subunits, OFNP/OFNP	MPA-NCNCD40xxxF-FF
OM3 MPO Microcable Trunk Assemblies	
OM3 MPO-MPO, 12-fiber 3 mm interconnect, plenum (OFNP) rated	MPA-NCNCJ30xxxF-FF
OM3 MPO-MPO, 24-fiber backbone (2 x 12) with 3 mm interconnect subunits, OFNR/OFNP	MPA-NCNCD30xxxF-FF
Singlemode Microcable Trunk Assemblies	
OS2 Single Mode, 12-fiber, 12-fiber 3 mm interconnect, plenum (OFNP) rated	MPA-NCNCJ50xxxF-FF
OS2 Single Mode, 24-fiber, 24 (2 x 12) Fiber backbone with 3 mm interconnect subunits, plenum (OFNP) rated	MPA-NCNCD50xxxF-FF

Note: XXX=length in feet, three digits required (example: 40 feet is 040).



MPOptimate patch cords

FEATURES

- Connector performance: IL \leq 0.35 dB (max.); RL \geq 28 dB
- Available in female/female and male/female version in straight and total flipped wiring

Color: Aqua

ORDERING INFORMATION

Description	Part Number
12-Fiber MPO Patch Cord, Polarity A (Type A)	MPT-NCNCJ40xxxM-NN

Note: XXX=length in meters, three digits required (example: 40 meters is 040).



Copper

Specialty Products – High Speed Copper Cable Assemblies

TE Connectivity's (TE) SFP+ and QSFP/QSFP+

TE Connectivity's (TE) SFP+ and QSFP/QSFP+ direct attach copper cable assemblies are a high speed, cost effective alternative to fiber optics in 10 Gb Ethernet, 8 Gb Fiber Channel and InfiniBand technology applications. These high speed copper cable assemblies enable hardware OEM's and data center operators to achieve higher port density and configurability at a low cost and reduced power requirement. The QSFP copper cable form factor utilizes eight differential pairs which provide four data transmission channels. TE's SFP+ and QSFP copper assemblies meet or exceed the industry MSA for signal integrity performance.

FEATURES

- MSA SFF-8431 compliant
- Supports serial data rates up to 10 Gbps
- Low cost alternative to fiber optic assemblies
- Low power consumption
- Enhanced EMI suppression
- Pull-to-release retractable pin latch
- 24 AWG through 30 AWG cable available
- Passive and active assemblies
- Uses MADISON CABLE brand TurboTwin parallel pair cable

PRODUCT APPLICATIONS

- Switches
- Networking – servers, routers and hubs
- Enterprise storage
- Telecommunication equipment
- Network Interface Cards (NIC's)

APPLICATIONS BY PROTOCOL

- 10 Gigabit Ethernet and Gigabit Ethernet (IEEE802.3ae)
- Fibre channel: 1-, 2-, 4-, 8-, and 16-GFC
- InfiniBand standard SDR (2.5 Gbps), DDR (5 Gbps) and QDR (10 Gbps)
- Fibre Channel over Ethernet (FCoE)
- Serial data transmission



SFP



QSFP/QSFP+

Copper

Specialty Products – High Speed Copper Cable Assemblies

SFP+ High Speed Copper Cable Assemblies

ORDERING INFORMATION

AWG	Cable Length	Active/Passive	Data Rate	Part Number
24	0.5 m	Passive	10 Gbps	9-2111653-1
24	1.0 m	Passive	10 Gbps	2111653-1
24	2.0 m	Passive	10 Gbps	2111653-2
24	3.0 m	Passive	10 Gbps	2111653-3
24	5.0 m	Passive	10 Gbps	2111653-5
24	7.0 m	Passive	10 Gbps	2111653-7

QSFP/QSFP+ High Speed Copper Cable Assemblies

ORDERING INFORMATION

AWG	Cable Length	Active/Passive	Data Rate	Part Number
30	0.5 m	Passive	5/10 Gbps	9-2111673-1
30	1.0 m	Passive	5/10 Gbps	2111673-1
30	2.0 m	Passive	5/10 Gbps	2111673-2
30	3.0 m	Passive	5/10 Gbps	2111673-3
26	5.0 m	Passive	5/10 Gbps	2111673-5

Other lengths and cable gauges available. Contact your local TE Sales Engineer.

Copper

Specialty Products – High Speed Copper Cable Assemblies

SPECIFICATIONS

CONNECTOR

Interface	PCB paddle card
Contact Material	30μ Gold plated contact pads
Backshell Material	Tin plated Zinc diecast
EMI Spring	Tin plated copper alloy
Latch	Retractable pin
Latch Release	Molded thermoplastic pull tab
Retention Force	90N Max
Durability	100 cycles Min

TWIN AXIAL CABLE

Operating Temp	0 to +70° C
Storage Temp	-40° to +80° C
Inner Shield	Aluminum/Poly Tape
Outer Shield	Tin Plated Copper Braid
Safety Certications	UL Recognized
	CSA Certified
	RoHS Compliant
	REACH 2010 Compliant
Impedance	100 ± 10 Ohms
Jacket Material	Flexible PVC
Bend Radius	3x OD Static
	5x OD Dynamic

CABLE OD	24 AWG	26 AWG	28 AWG	30 AWG
SFP	0.255"	0.205"	0.185"	0.170"
QSFP/QSFP+	-	0.350"	0.310"	0.255"

Copper

Specialty Products - Video Distribution System

Video Distribution System (VDS)

TE Connectivity's Video Distribution System (VDS) enables network managers to deliver true high-definition RF and IP video over an existing Category 6 or 7 cabling infrastructure without the need for coaxial horizontal cabling or any RF tuning.

VDS enables the delivery of video signals such as cable television, satellite, in-house video, digital signage, electronic bulletin boards or any other service normally delivered over coaxial systems—but over a Category 6 or Category 7 twisted-pair infrastructure. The VDS eliminates the need for a separate coaxial infrastructure or the need for an RF technician to install it.

More information on the Video Distribution System can be found at www.te.com/VDS.

FEATURES

VDS is a TIA-568/ISO 11801 compliant solution providing these key benefits:

- Provides full RF video spectrum, along with IP video, over a single Cat 6/7 cable: Compatible with standard Structured Cabling guidelines and specifications. Eliminates the need for horizontal coax cabling. Supports full-spectrum video 862 MHz for up to 90 meters or 550 MHz for up to 100 meters
- Future proofing: Cat 6/7 system provides a migration path to tomorrow's broadcast IPTV
- Auto adjusting RF signal: Eliminates the need for manual tuning. Solves Coax's equalizing and balancing problems electronically via Auto Gain Control (AGC)
- Plug-and-play solution: Provides ease of installation and system design/maintenance. Output and input levels are adjusted to provide perfect HD video at the TV set
- Head-end output—Automatically Adjusted: The Master RF Interface adjusts the head-end signal for proper system operation
- Powered over cable: The Remote Active Balun is powered over the twisted pair system, with +12 Volts being applied at the video distribution hub
- Bi-directional signaling: Compatible with interactive control requirements
- Global Support: Two variants available based on bandwidth allocation—P version for PAL and N version for NTSC specifications
- Capability to support in excess of 65,000 video drops



Copper

Specialty Products - Video Distribution System

Master RF Video Interface

FEATURES

- No set-up required – plug-and-play
- Automatic RF gain and slope adjustment
- Eight coax output ports to drive VDS Hubs
- Auxiliary ports for use with in-house RF video
- LED indicator lights

Description	Part Number
Master RF Video Interface (N Variant)	2-2111501-0
Master RF Video Interface (P Variant)	1-2111501-0



Video Distribution Hub

FEATURES

- No set-up – automatic gain and slope control
- Supports full-spectrum video as well as 10/100Base-T
- Available in 12 and 24-port versions
- Four (4) coax output ports to drive other VDS Hubs
- LED indicator lights

Description	Part Number
Video Distribution Hub (N) 24-port	2-2111510-0
Video Distribution Hub (P) 24-port	1-2111510-0
Video Distribution Hub (N) 12-port	2-2111505-0
Video Distribution Hub (P) 12-port	1-2111505-0



Intelligent, Self-Adjusting Balun

FEATURES

- Plug-and-play utilizing AGC (Automatic Gain Control)
- Provides two output ports – F connector for RF and RJ-45 for 10/100Base-T
- No external power supply – powered via twisted pair cable
- Small size (2.5" x 2.5" x 1") (59 mm x 57 mm x 24 mm)

Description	Part Number
Intelligent, Self-Adjusting Balun (N)	2-2111515-0
Intelligent, Self-Adjusting Balun (P)	1-2111515-0



Power Cordage

Power supply included (C13 connector), power cord ordered separately

Description		Part Number
Power cord; 6 feet	USA plug (Type B)	1591311-1
	Europe plug (Type E)	1591311-2
	AZ/NZ plug (Type I)	1591311-6
	UK plug (Type G)	1591311-7



Copper

Specialty Products - Media Converters and Switches

Media Converters, Switches and Mid-Span POE

TE Connectivity offers a wide range of high-performance, cost-effective AMP NETCONNECT Ethernet switches. The AMP NETCONNECT switches include unmanaged compact Ethernet switches, smart Ethernet switches with built-in or optional fiber uplink ports and SNMP managed Ethernet switches with optional fiber or twisted pair Gigabit uplink ports.

TE's AMP NETCONNECT basic, unmanaged compact Ethernet switches are ideal for Small Office/Home Office (SOHO), small workgroup or home networking applications. Smart Ethernet switches have fiber uplink ports either built-in/fixed (8-port switch only) or optional (16- and 24-port switches) to enable high-speed connections to backbones, servers, and network devices over singlemode or multimode (50 or 62.5/125 μm) fiber using industry standard MT-RJ, SC, and ST-Style connectors. SNMP managed Ethernet switches deliver management capabilities required by most network managers using interfaces such as direct connection to a console port, Telnet, or web browser sessions. Optional fiber or twisted pair uplinks can be added for high-speed network interface. Fiber uplinks include singlemode and multimode (50 or 62.5/125 μm) Gigabit (1000BASE-SX or LX) and 100BASE-FX. Optional twisted pair uplink is via an RJ-45, 100/1000BASE-T interface. These uplinks can be used in any combination on the switch to deliver a highly flexible backbone solution. With an emphasis on high quality, competitive cost, and ease of use, AMP NETCONNECT Ethernet switches from TE are a great choice for anyone from a home office user to an enterprise IT manager.



Copper

Specialty Products - Media Converters and Switches

AMP NETCONNECT Smart Ethernet Switches

AMP NETCONNECT smart Ethernet switches from TE can be mounted in either 10-inch or 19-inch frames.



AMP NETCONNECT SNMP Managed Ethernet Switches

TE's AMP NETCONNECT SNMP managed Ethernet switches allow network managers excellent control and visibility of distributed switches using advanced functions accessible through a direct connection to the console port, Telnet or web browser sessions, or SNMP programs. This capability is ideal for network managers who want to have versatile control of their network.



AMP NETCONNECT Ethernet Media Converters

TE's AMP NETCONNECT Ethernet media converters are high quality media conversion products that support 10BASE-T, 100BASE-TX and Gigabit (1000BASE-T) Ethernet standards and can be used in a wide range of applications including office buildings, professional workgroups, campuses, Fiber-to-the-Desk (Fttd), and industrial systems.

Media converters are used to extend Ethernet segments or LANs to servers and other network elements using singlemode or multimode (50 or 62.5 μm) optical fibers connectorized with the MT-RJ, SC, or ST connectors.

With a strong focus on simple, cost effective, quality installations, AMP NETCONNECT media converters enable a wide range of reliable network solutions.



AMP NETCONNECT Power over Ethernet Products

TE's AMP NETCONNECT 8-port & 24-port Power over Ethernet (PoE) Midspan device for 802.3af applications offers a per-port, cost-effective solution when powering remote devices like VoIP phones, WLAN access points, security devices, etc. The AMP NETCONNECT 8-port and 24-port PoE midspan devices from TE makes injecting DC power onto existing copper cabling as simple as routing patch cords and it eliminates the PoE costs for powered switch ports when power is not needed.



5, 8 and 16-Port Compact Ethernet Switch

FEATURES

- Compact and easy to install Ethernet switches
- Ideal for Small Office/Home Office (SOHO), small business and home networking applications
- Supports 10BASE-T, 100BASE-TX, 1000BASE-T Ethernet applications
- For use with RJ-45, shielded or unshielded, Category 6, 5e and 5 twisted pair structured cabling systems
- Data rate auto-negotiation and full or half duplex mode auto-selection
- Auto MDI/MDI-X detection eliminates the need for crossover cable assemblies
- Strong metal case helps to protect the switch against damage
- Powered via a compact external AC power adapter



Figure A



Figure B



Figure C

ORDERING INFORMATION

Description	Port Count	Ethernet Speed (Mbps)	Figure	Part Number
Compact Ethernet Switch	5	10/100/1000	A	1591081-1
	8	10/100/1000	B	1591083-1
	16		C	1591070-1

24-Port Smart Ethernet Switch II with Optional Dual Uplink Port

FEATURES

- Supports 10BASE-T, 100BASE-TX, and Fast Ethernet standards
- Optional dual or single fiber uplink module only needs to be fitted if fiber link is required
- Fully managed smart switch II through the RS232 console port
- Supports up to 26 port-based VLANs
- Supports QoS (802.1p, DiffServ and port based)
- Programmable port speeds and duplex modes



Figure D

ORDERING INFORMATION

Description	Figure	Part Number
24-Port Smart Ethernet Switch II	D	1591093-1

24-Port Stackable Managed Switch with Optional Expansion Port

FEATURES

- Supports 10BASE-T, 100BASE-TX, and Ethernet applications
- Available uplink modules provide optional fiber 100BASE-FX or optical fiber or copper gigabit capabilities
- Supports full of half-duplex auto-negotiation together with N-Way capability on the RJ-45 port
- Auto-MDI/MDI-X eliminates the need for RJ-45 crossover cables
- Managed and controlled from a console port, Telnet, SNMP or web browser
- IP stackable management supporting 8 separate switches
- VLANs, IGMP and QoS support
- Static MAC address port security
- Programmable bandwidth rules
- Comprehensive LED indicators
- Programmable port mirroring
- Up to 7-port trunks supported
- Supports 802-1x user authentication



Figure A

Figure B
Sold Separately

ORDERING INFORMATION

Description			Figure	Part Number
24-Port Stackable Managed Switch			A	1591099-1

Description	Application	Interface Type	Figure	Part Number
Optional Uplink Port Modules	100BASE-Fx	SC Multimode Fiber		1591094-0
		ST Multimode Fiber		1591095-0
		SC Singlemode Fiber		1591096-0
	Dual Gigabit	4-Fiber Multimode 1000BASE-Sx		1591097-0
		4-Fiber Singlemode 1000BASE-Lx		1591098-0
		2-Port Twisted Pair 1000BASE-T	B	2-1591019-0

Fast Ethernet Media Converters

FEATURES

- Ideal for both new and legacy LAN applications
- RJ-45 Port:
 - For use with shielded or unshielded, Category 6, 5e, and 5 twisted pair structured cabling systems
 - Supports 10BASE-T and 100BASE-TX Ethernet applications
 - Data rate auto-negotiation and full or half duplex mode auto-selection
 - Auto MDI/MDI-X detection eliminates the need for crossover cable assemblies
- Optical Fiber Port:
 - For use with MT-RJ, SC, or ST, multimode or SC singlemode optical fiber connectors
 - Multimode fiber ports are compatible with 50/125 μm and 62.5/125 μm fiber types
 - Supports 100BASE-FX Ethernet applications
- Increased network resilience through link loss forwarding function that allows suitable Ethernet switches to implement alternate paths when required
- Stand-alone or chassis mountable
- Strong metal case helps to protect the media converter against damage
- Powered via an external, AC power adapter
- Dimensions 4.7" x 3.4" x 1.0"



Figure A

ORDERING INFORMATION

Description	Optical Fiber Interface	Figure	Part Number
Fast Ethernet Media Converter	SC Duplex Multimode		1591024-1
	SC Duplex Singlemode	A	1591030-1
	ST Multimode		1591026-1

Gigabit Ethernet Media Converters

FEATURES

- Ideal for both new and legacy LAN applications
- RJ-45 Port:
 - For use with shielded or unshielded, Category 6, 5e and 5 twisted pair structured cabling systems
 - Supports 1000BASE-T Ethernet applications data rate auto-negotiation and full or half duplex mode auto-selection
 - Auto MDI/MDI-X detection eliminates the need for crossover cable assemblies
- Optical Fiber Port:
 - For use with SC multimode or singlemode fiber optic connectors
 - Multimode fiber ports are compatible with 50/125 μm and 62.5/125 μm fiber types
 - Supports 1000BASE-SX and 1000BASE-LX Ethernet applications
- Stand-alone or chassis mountable
- Strong metal case helps to protect the media converter against damage
- Powered via an external, AC power adapter
- Dimensions 4.7" x 3.4" x 1.0"



Figure A

ORDERING INFORMATION

Description	Figure	Part Number
1000BASE-SX SC Duplex Multimode	A	1591020-1
1000BASE-LX SC Duplex Singlemode		1591022-1

Rack Mount Media Converter Chassis System

- Mounts in standard 19" racks
- 3U (5.25")
- Accepts up to ten (10) Fast Ethernet or Gigabit Ethernet Media Converters (sold separately)
- Ideal for enterprise critical and networks
- Can be loaded with mixed types of media converters for flexibility
- Media converters can be hot-swapped within the chassis
- Media converters are purchased separately
- Media Converter Chassis is shipped unloaded and includes one installed power supply
- A second power supply can be installed for a dual redundancy power system
- Power supplies can be hot swapped for critical availability networks



Media Converters Sold Separately

ORDERING INFORMATION

Description	Part Number
Empty Rack Mount Media Converter Chassis System	1591032-1
Spare/Redundant AC Power Unit	1591034-0

Copper

Specialty Products – Patch Panels

8-Port PoE Midspan Device

FEATURES

- IEEE 802.3af compliant
- Supports 10/100/1000 Mb/s Ethernet
- 19-inch metal frame mountable
- Universal 110/220 V (50/60 Hz) power supply
- Full power on every port (15.4 W)



Figure A



Figure B
Shown Loaded with one 159118
(Sold Separately)

ORDERING INFORMATION

Description	Figure	Part Number
8-Port PoE Midspan	A	1591188-1
1RU, 19" Mounting Frame (holds three 8-Port PoE Midspan Devices)	B	1591185-0

RJ45 Coupler Panel

TE's RJ45 coupler panel provides feed-through data and voice connectivity on the front and rear for Category 5e, 6 and 6A applications. Connectivity on the front of the panel accommodates standard RJ45 patch cords. Connectivity for hubs, routers and other active equipment on the back of the panel is also designed for RJ45 patch cords—creating a convenient connection field for data applications. Includes port labeling for front and rear. Width is 48.26 cm (19").



RJ45 coupler panel
front view

ORDERING INFORMATION

Description	Port Count	Category	Rack Units	Part Number
RJ45 coupler panel	48	Shielded 6A	1	2111340-1
	24	6	1	ADCPP24606
	48	6	2	ADCPP48606
	24	Shielded 6	1	ADCPP24RJ6-S
	24	Shielded 5e	1	ADCPP24RJ5E-S
	24	5e	1	ADCPP24505
	48	5e	2	ADCPP48505
	16	5e	1	ADCPP16KSRJRJ
	32	5e	1	ADCPP32KSRJRJ

Copper

Specialty Products – Patch Panels

Category 5, 10/100BASE-T, RJ21 (25-Pair) Patch Panel and Cable Assemblies

FEATURES

- Meets or exceeds TIA and ISO Category 5 component performance requirements
- Provides RJ45 breakouts from 10/100BASE-T switches and hubs that use the 25-pair telecommunications interface
- Compatible with CISCO hubs and switches
- Use with 25-pair plug to plug cable assemblies listed
- Cable assemblies are for use with this patch panel only
- Saves time in moves, adds, and changes
- Features secure and convenient 25-pair connections on the rear
- Modular 8-pin, 4-pair jacks on the front



Left-hand Exit
Cable Assembly



Category 5, 10/100BASE-T
25-Pair Patch Panel, FRONT



Category 5, 10/100BASE-T
25-Pair Patch Panel, BACK

ORDERING INFORMATION

Description	Height	Length	Part Number
Category 5, 10/100BASE-T, 25-Pair Patch Panel	2RU (3.50")	-	1116732-1
Left-hand Exit Cable Assembly		5' (1.52 m)	1116733-5
		7' (2.13 m)	1116733-7
		10' (3.05 m)	1-1116733-0
		15' (4.57 m)	1-1116733-5
Right-hand Exit Cable Assembly		5' (1.52 m)	1116734-5
		7' (2.13 m)	1116734-7
		10' (3.05 m)	1-1116734-0
		15' (4.57 m)	1-1116734-5

Category 3 Patch Panels

FEATURES

- Meets or exceeds TIA and ISO Category 3 component performance requirements
- Available in 2 and 3-pair for voice and low speed data applications



24-Port

ORDERING INFORMATION

Description	Height	Wiring Pattern	Part Number
24-Port	1RU (1.75")	RJ14C (2-Pair)	557403-1

Copper

Specialty Products – Patch Panels

Category 3 25-Pair Patch Panels

FEATURES

- Meets or exceeds TIA and ISO Category 3 component performance requirements
- Available in 1 through 4-pair for voice and low speed data applications
- 25-Pair connectors on the back of the patch panels are male (plugs)



Front Detail

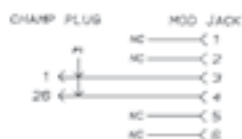


Back Detail

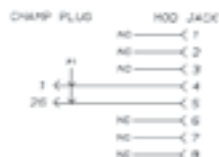
ORDERING INFORMATION

Port Count	Height	Width	Modular Jack Type	Active Pins	Wiring Diagram	Number of 25-Pair Plugs (Male)	Part Number
24	1RU (1.75")	19"	1-Pair (6-Pos.)	3&4	A	1	556189-1
			2-Pair (6-Pos.)	2-5	C	2	556183-1
			4-Pair (8-Pos.)	1-8	E	4	556180-1
					D	4	556186-1
48	3RU (5.25")	19"	1-Pair (8-Pos.)	4&5	B	2	555482-1

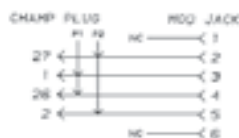
SPECIFICATIONS



A. 1-Pair
6-Position



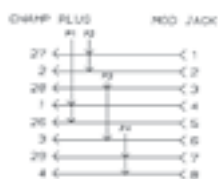
B. 1-Pair
8-Position



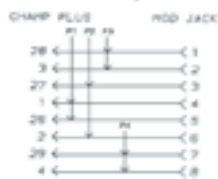
C. 2-Pair
6-Position



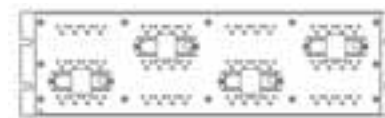
Category 3, 25-Pair Patch Panel
FRONT, 24 Port Count



D. 4-Pair
T568B



E. 4-Pair
T568A



Category 3, 25-Pair Patch Panel
BACK, 24 Port Count

Copper

Specialty Products - Patch Panels

Multimedia SL Series Patch Panels

FEATURES

- Shielded panels accept AMP-TWIST, shielded, and unshielded SL series jacks and inserts
- Unshielded panels accept unshielded SL series jacks and inserts (unshielded panels will not accept unshielded AMP-TWIST jacks)
- May be used to create custom configurations — including mixing fiber, twisted-pair, coax and A/V applications
- Ports may be individually replaced
- Angled versions allow elimination of horizontal cable management for higher rack densities and ease of cable dress

ORDERING INFORMATION

Description	Shielding	Height	Width	Part Number	
				Standard	Angled
12-Port	Shielded	1RU (1.75")	19.0"	1933412-1	-
	Unshielded*	10.00"	2.3"	1375289-1*	-
24-Port	Shielded	1RU (1.75")	19.0"	1933307-1	1933309-1
	Unshielded*	1RU (1.75")	19.0"	1375291-1*	1499622-1*
48-Port	Unshielded	1RU (1.75")	19.0"	2111348-1	2111349-1
	Shielded	2RU (3.50")	19.0"	1933308-1	1933310-1
	Unshielded*	2RU (3.50")	19.0"	1375292-1*	1499623-1*
96-Port	Unshielded*	4RU (7.0")	19.0"	2111159-1	
48-Port	Unshielded	1RU	19.0"	2111348-1	2111349-1

* Unshielded panels will not accept unshielded AMP-TWIST jacks



Standard



Angled

Blank Panels

FEATURES

- 19" wide panels are designed for use in filling equipment rack voids



Figure A 1U



Figure B
1U



Figure B
2U

ORDERING INFORMATION

Description	Figure	1U [1.75"]	2U [3.50"]	3U [5.25"]	4U [7.00"]	5U [8.75"]
Standard	A	556965-1	556965-2	556965-3	556965-4	556965-5
Angled	B	1479992-1	1479992-2	-	-	-

Copper

Specialty Products - Patch Panels

Cover for Angled Patch Panels

FEATURES

- For use with angled patch panels
- Protects cabling from dust and damage



ORDERING INFORMATION

Description	Part Number
Cover for Angled Patch Panels	1499614-1

Multimedia Integrated Cable Management SL Series Patch Panels

FEATURES

- Accept unshielded SL Series Jacks and inserts
- May be used to create custom configurations – including mixing fiber, twisted-pair, coax and A/V applications
- Allow elimination of horizontal cable management for higher rack densities and ease of cable dress
- Ports may be individually replaced
- Replacement labels and clear label covers are available



Figure A

ORDERING INFORMATION

Port Count	Height	Width	Figure	Part Number
24	1RU (1.75")	19.0"	A	1479449-1
48	2RU (3.50")	19.0"		1479450-1

Discrete High-Density Angled SL Series Patch Panel

FEATURES

- Accepts AMP-TWIST, shielded, and unshielded SL Series Jacks and inserts (purchased separately)
- Highest density solution for 2RU (3.50")
- Ports may be individually replaced
- Angled version allow elimination of horizontal cable management for higher rack densities and ease of cable dress



ORDERING INFORMATION

Description	Height	Width	Part Number
72-Port Discrete Angled Panel	2RU (3.50")	19.0"	1499613-1

110Connect Modular Jack Patch Panels

FEATURES

- Shielded patch panels accept shielded 110Connect and Inserts for 110Connect modular jack patch panels
- Unshielded patch panels accept unshielded 110Connect and Inserts for 110Connect modular jack patch panels
- May be used to create custom configurations
- Ports may be individually replaced



Figure A
Unshielded



Figure A
Shielded

ORDERING INFORMATION

Port Count	Height	Width	Figure	Part Number	
				Unshielded	Shielded
16	1RU (1.75")	19.0"	A	557429-1	557429-2

NOTE: Shielded patch panels use grounding lug kit 556438-1 for isolated grounding

Copper

Specialty Products - Patch Panels

Inserts for 110Connect Modular Jack Patch Panels

FEATURES

- Used with 110Connect modular jack patch panels
- Inserts also work with standard, 0.582" x 0.762" openings



Figure A



Figure B

ORDERING INFORMATION

Description	Figure	Part Number	
		Almond	Black
Blank	A	558856-2	558856-1
F-Connector Coupler	B	558862-2	558862-1

NOTE: Not compatible with standard or angled faceplates or office boxes.

1RU Rack Mount Fiber Optic Patch Panel

FEATURES

- Accepts three (3) snap-in adapter plates or MPO cassettes (sold separately)
- Fits standard TIA 19 inch rack
- 1RU (1.75")



ORDERING INFORMATION

Description	Part Number
1RU Rack Mount Fiber Optic Patch Panel	1777125-1

Copper

Specialty Products – Jacks and Couplers






SL Series Category 3 Modular Jacks

FEATURES

- Thin profile improves outlet density
- 180° or 90° cable dress for easy termination
- UL Listed: E81956
- Unshielded, 6-Position RJ11c/RJ14c/RJ25c modular jacks for 1, 2 and 3-Pair applications
- Can be terminated with either SL series modular jack termination tool (1725150-1) or standard 110 punch-down tools
- RoHS compliant



ORDERING INFORMATION

		Part Number
Color		Without Dust Cover
Almond		1375192-1
Black		1375192-2
Gray		1375192-4
Blue		1375192-6
Alpine White		1-1375192-3

Note: Colors are approximate and for reference only.

Keystone Category 3 Modular Couplers

FEATURES

- Compact couplers for two modular plugs
- Couplers snap into 0.585" x 0.765" rectangular faceplate cutouts
- Wired one-to-one



Figure A
Right-Angle Coupler



Figure B
In-Line Coupler

ORDERING INFORMATION

Description	Number of Positions	Figure	Part Number
Right-Angle Coupler	6	A	555049-1
	8		555051-1
	8 (Keyed)		555377-1
In-Line Coupler	6	B	555050-1
	8		555052-1
	8 (Keyed)		555376-1
	6 (MMJ/MMJ)		556625-1
	6 (MMJ/STD)		556627-1

Copper

Specialty Products – Jacks and Couplers

SL Series Modular Jack Strain Relief

- Provide strain relief for terminated cables in the work area
- Strain reliefs are for use with unshielded SL series modular jacks only

ORDERING INFORMATION

Description	Color	Figure	Part Number
Bend-Limiting Strain Relief	Smoked Gray	A	1375200-1
Strain Relief	Clear	B	1375157-1



Figure A



Figure B

RJ45 Dust Cover

FEATURES

- RJ45 Dust Covers:
 - Protect contacts from dust, build-up and contaminants which can affect performance
 - Work with any RJ45 jack
 - Made of flexible plastic for snug fit and contact protection
 - Tab makes installation and removal a snap
 - EU RoHS/ELV compliant



Figure A

ORDERING INFORMATION

Description	Color	Figure	Part Number
RJ45 Dust Cover	Black	A	2111285-2

Copper

Specialty Products – Modular plugs

Category 3 Modular Plugs

FEATURES

- Accommodate conductors as listed
- RoHS compliant
- Molded with UL94V-0 rated plastic
- UL Listed: E81956
- For termination tooling, see page 3-120
- Modular plug to die set cross reference on page 3-120
- Refer to Category 5e products on page 3-43 for Modular Plug Boots and External Strain Reliefs



6-Position,
Round, Standard



6-Position,
Round, Long



6-Position,
Flat, Standard



8-Position,
Round, Standard



8-Position,
Flat, Standard



Shielded 8-Position
Round, Standard

ORDERING INFORMATION

Positions	Shielding	Keying	Cable Type	Cable Jacket O.D.	Conductor Type	AWG	Insulation O.D.	Body Type	Quantity Per Box	Part Number
6	Unshielded	Unkeyed	Round	0.180" (4.58 mm) max.	Stranded	28-26	0.035" (0.89 mm) max.	Standard	100*	5-554710-3
						28-26	0.029" to 0.039" (0.74 mm to 0.99 mm)	Long	100*	5-555177-3
			Flat Oval	0.195" (4.96 mm) max.	Solid	26-24	0.039" (0.99 mm) max.	Long	100*	5-555426-3
						28-26	0.029" to 0.039" (0.74 mm to 0.99 mm)	Standard	100*	5-641337-3
	Shielded	Unkeyed	Flat Oval	0.090" x 0.260" (2.29 mm x 6.61 mm) max.	Stranded	28-26	0.035" to 0.039" (0.89 mm to 0.99 mm)	Standard	100*	5-555042-3
						26-24	0.029" to 0.039" (0.74 mm to 0.99 mm)	Long	500	5-555174-2
8	Unshielded	Unkeyed	Round	0.110" x 0.270" (2.79 mm x 6.85 mm) max.	Stranded	28-26	0.029" to 0.039" (0.74 mm to 0.99 mm)	Long	100*	5-555175-3
						28-26	0.029" to 0.039" (0.74 mm to 0.99 mm)	Long	100*	5-555175-3
			Round	0.210" (5.33 mm) max.	Stranded	28-26	0.029" to 0.039" (0.74 mm to 0.99 mm)	Standard	100*	5-554170-3
						28-26	0.029" to 0.039" (0.74 mm to 0.99 mm)	Standard	100*	5-554169-3
			Flat Oval	0.200" (5.08 mm)	Solid	26-24	0.029" to 0.039" (0.74 mm to 0.99 mm)	Long	100*	5-557315-3
						28-26	0.035" to 0.039" (0.89 mm to 0.99 mm)	Long	100*	5-554739-3
	Shielded	Unkeyed	Round	0.100" x 0.350" (2.54 mm x 8.89 mm) max.	Stranded	28-26	0.035" to 0.039" (0.89 mm to 0.99 mm)	Long	100*	5-554720-3
						26-24	0.029" to 0.039" (0.74 mm to 0.99 mm)	Standard	100	5-569532-3
			Flat Oval	0.200" (5.08 mm)	Solid	26-24	0.029" to 0.039" (0.74 mm to 0.99 mm)	Standard	100	5-569530-3
	Shielded	Unkeyed	Flat Oval	0.110" x 0.355" (2.79 mm x 9.02 mm) max.	Stranded	28-24	0.029" to 0.039" (0.74 mm to 0.99 mm)	Standard	100	5-569542-3
						28-24	0.029" to 0.039" (0.74 mm to 0.99 mm)	Standard	100	5-569542-3

* Note: 10 boxes per carton

Copper

Specialty Products - Feed-Thru Termination Block System and Accessories

Feed-Thru Termination Block System and Accessories

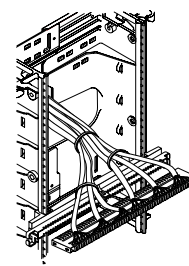
The FT field assembly kits feature the universal mounting system, which provides modularity and three mounting options:

- Wall mount
- Wall mount with optional UMS backboard for greater cabling depth
- Rack mount with UMS backboard

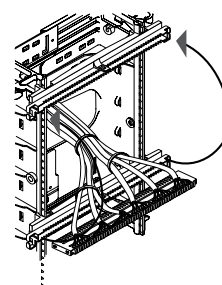
FT field assembly kits include a universal mounting bracket, two horizontal wire managers and a choice of 4-pair or 5-pair color-coded FT blocks. Route cable from the top, bottom or rear. Four-pair color-coded blocks are marked with TIA color codes in 4-pair groups. Five-pair coded blocks are marked with a white stripe on every fifth pair. Labeling accessories, such as label holders and paper labels, are sold separately.

FEATURES

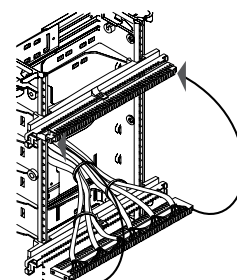
- Appropriate for both data and voice application
- High-density and quick installation are the hallmarks of the 25-pair Feed-Thru (FT) block system
- The 25-pair FT block is the perfect replacement for 110 installations
- Complete patching and cross-connect options provide the versatility required for any configuration
- Color-coded blocks are offered, with each pair color marked according to industry standards
- Handy label holders provide clear identification of groups or individual pairs



1. Terminate cables



2. Move base unit from bottom to top



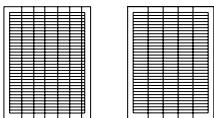
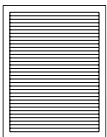
3. Flip and snap into place

Copper

Specialty Products - Feed-Thru Termination Block System and Accessories

Feed-Thru (FT) Termination Block Systems

ORDERING INFORMATION

Description	Dimensions (HxWxD)	Part Number
25-pair FT block Quantity: 1		
4-pair color-coded Allows high-density termination in small area; two-piece assembly, consisting of base and connector. 4-pair color-code marked on face of block. Used for terminating 4-pair station cables; each block terminates (6) 4-pair cables	1" x 8.75" x 1.88" (25.4 mm x 225.3 mm x 47.6 mm)	6631 2 135-05
5-pair color-coded Allows high-density termination in small area; two-piece assembly, consisting of base and connector. 5-pair color-code (blue, orange, green, brown, slate) marked on face of block. Used for terminating 25-pair cable	1" x 8.75" x 1.88" (25.4 mm x 225.3 mm x 47.6 mm)	6631 2 135-06
5-pair code Allows high-density termination in small area; two-piece assembly, consisting of base and connector. Marked in white every fifth pair. Used for terminating riser cables or with PBX systems. Each block terminates 25-pair	1" x 8.75" x 1.88" (25.4 mm x 225.3 mm x 47.6 mm)	6631 2 135-00
Type 160 hinged label holder Used on 25-pair FT block to identify cable groups or individual pairs; folds out of the way when punching down wires; can be used for 1- to 25-pair configurations Quantity: 1		6631 2 003-00
Label sheets for Type 160 hinged label holder Each 8.5" x 11" sheet contains 34 perforated labels Quantity: 1 sheet per package		
Blue and white One side is blue and marked in 4-pair increments; other side is white and marked in 5-pair increments	 <div> <div>Front</div> <div>Blue</div> <div>Back</div> <div>White</div> </div>	6631 3 100-26
Gray/brown	 <div>Type 160 Hinged</div>	6631 3 100-22
Yellow/red		6631 3 100-23
Orange		6631 3 100-27
Purple		6631 3 100-28
Blue		6631 3 100-29
Green		6631 3 100-30

COPPER

Copper

Specialty Products - Feed-Thru Termination Block System and Accessories

Feed-Thru (FT) Field Assembly Kits

ORDERING INFORMATION

Description	Dimensions (HxWxD)	Part Number
100-pair, 4-pair color-coded kit Includes (4) 25-pair FT blocks with 4-pair color-coding, 2 horizontal wire managers, 1 universal mounting bracket. Terminates (24) 4-pair station cables. Hinged label holders for identification of stations or pairs ordered separately	14.75" x 10.75" x 5.25" (374.7 mm x 273.1 mm x 133.4 mm)	6642 1 115-04
100-pair, 5-pair color-coded kit Includes (4) 25-pair FT blocks with 5-pair code marked on face of block, 2 horizontal wire managers, 1 universal mounting bracket. Hinged label holder for identification of stations or pairs ordered separately	14.75" x 10.75" x 5.25" (374.7 mm x 273.1 mm x 133.4 mm)	6642 1 115-05
300-pair, 4-pair color-coded kit Includes (12) 25-pair FT blocks with 4-pair color-coding, 2 horizontal wire managers, 1 universal mounting bracket. Terminates (72) 4-pair station cables. Hinged label holder for identification of stations or pairs ordered separately	14.75" x 10.75" x 5.25" (374.7 mm x 273.1 mm x 133.4 mm)	6642 1 315-04
300-pair, 5-pair color-coded kit Includes (12) 25-pair FT blocks with 5-pair code marked on face of block, 2 horizontal wire managers, 1 universal mounting bracket. Hinged label holder for identification of stations or pairs ordered separately	14.75" x 10.75" x 5.25" (374.7 mm x 273.1 mm x 133.4 mm)	6642 1 315-05

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Specialty Products - Feed-Thru Termination Block System and Accessories

Patch Cords for Feed-Thru (FT)

These FT patch cords use TE Category 5e cable and exceed the requirements for Category 5e.



ORDERING INFORMATION

Description			Cable Color	Part Number*																
4-pair FT plug to FT plug, wired straight through Quantity: 1			White	TP5ETF-WTXX																
			Red	TP5ETF-RDXX																
			Blue	TP5ETF-BLXX																
			Green	TP5ETF-GNXX																
			Yellow	TP5ETF-YLXX																
			Gray	TP5ETF-GYXX																
<div><div>Pair No.</div><table><tr><td rowspan="2">Pair 4</td><td>R</td></tr><tr><td>T</td></tr><tr><td rowspan="2">Pair 3</td><td>R</td></tr><tr><td>T</td></tr><tr><td rowspan="2">Pair 2</td><td>R</td></tr><tr><td>T</td></tr><tr><td rowspan="2">Pair 1</td><td>R</td></tr><tr><td>T</td></tr></table></div> 			Pair 4	R	T	Pair 3	R	T	Pair 2	R	T	Pair 1	R	T						
Pair 4	R																			
	T																			
Pair 3	R																			
	T																			
Pair 2	R																			
	T																			
Pair 1	R																			
	T																			
4-pair FT plug to RJ45 (8P8C) plug, wired T568A Quantity: 1			White	TP5ETBOWTXX																
			Red	TP5ETBORDXX																
			Blue	TP5ETBOBLXX																
			Green	TP5ETBOGNXX																
			Yellow	TP5ETBOYLXX																
			Gray	TP5ETBOGYXX																
<div><div>Wired to Pin #</div><table><tr><td rowspan="2">8</td><td rowspan="2">Pair 4</td><td>R</td></tr><tr><td>T</td></tr><tr><td rowspan="2">2</td><td rowspan="2">Pair 3</td><td>R</td></tr><tr><td>T</td></tr><tr><td rowspan="2">6</td><td rowspan="2">Pair 2</td><td>R</td></tr><tr><td>T</td></tr><tr><td rowspan="2">4</td><td rowspan="2">Pair 1</td><td>R</td></tr><tr><td>T</td></tr></table></div> 			8	Pair 4	R	T	2	Pair 3	R	T	6	Pair 2	R	T	4	Pair 1	R	T		
8	Pair 4	R																		
		T																		
2	Pair 3	R																		
		T																		
6	Pair 2	R																		
		T																		
4	Pair 1	R																		
		T																		

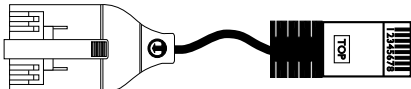


*Replace XX with: 04 = 4'
07 = 7'
10 = 10'
15 = 15'
25 = 25'
50 = 50'

Copper

Specialty Products - Feed-Thru Termination Block System and Accessories

Patch Cords for Feed-Thru (FT) Blocks

ORDERING INFORMATION

Description			Cable Color	Part Number*
4-pair FT plug to RJ45 (8P8C) plug, wired T568B Quantity: 1			White	TP5ETB-WTXX
Wired to Pin #			Red	TP5ETB-RDXX
Pair No.			Blue	TP5ETB-BLXX
8	Pair 4	R	Green	TP5ETB-GNXX
7		T	Yellow	TP5ETB-YLXX
6	Pair 3	R		
3		T		
2	Pair 2	R		
1		T		
4	Pair 1	R		
5		T		
				
1-pair FT plug to FT plug, wired straight through Quantity: 1			White	6645 2 251-XX
Pair No.			Red	6645 2 264-XX
Pair 1	R		Blue	6645 2 265-XX
	T			
				
2-pair FT plug to FT plug, wired straight through Quantity: 1			White	6645 2 266-XX
Pair No.			Red	6645 2 267-XX
Pair 2	R		Blue	6645 2 268-XX
	T			
Pair 1	R			
	T			
				

*Replace XX with: 04 = 4' 15 = 15'
07 = 7' 25 = 25'
10 = 10' 50 = 50'

Feed Thru (FT) Block Test Cord

ORDERING INFORMATION

Description	Part Number
FT block test cord 1-pair FT connector to 2 banana plugs (connect to test equipment), 1' length. Used to bridge or monitor circuit Quantity: 1	6645 2 254-01



FT test cord

Consolidation Points for Raised Floor Systems

FEATURES

- Designed for use in 2' x 2' raised floor systems
- Accommodate standard 19-inch patch panels and/or cable management panels as listed
- Consolidation points for 2.5" high raised floor systems are designed to fit low profile raised floors
- Consolidation points for 10" high raised floor systems are intended for high density applications in data centers, server rooms, etc.
- Consolidation points for 6"– 10" high raised floor systems feature hinged patch panel mounts which allow easy access to patch panels for moves adds and changes
- Complies with NEC 300-22(c) requirements for use in environmental air spaces
- Allows moves, adds and changes without re-terminating and re-testing cable
- Forms an interconnect between work area cabling and horizontal feeder cables
- Complies with TIA/EIA-568-C and ISO 11801:2002 requirements
- Fiber Support Bar accepts Fiber Snap-in Adapter Plates or MPO Cassettes
- Security consolidation point includes lockable cover and fits under floor tiles allowing access from a single tile



Figure A



Figure B



Figure C



Figure D



Figure E



Forward Position



Installed

ORDERING INFORMATION

Description	For Use With	Total Capacity	Figure	Part Number
Consolidation Points for Raised Floors	2.5" Raised Floors	2RU (1RU + 1RU)		1479158-1
	4" Raised Floors	2RU or Angled MRJ21 Patch Panels		1479956-1
	6" Raised Floors	4RU (2RU + 2RU)	A	1479042-1
	7" Raised Floors	8RU (4RU + 4RU)	B	1479359-1
	10" Raised Floors	12RU (6RU + 6RU)	C	1479360-1
Security Consolidation Point for Raised Floors (drop in box with lock)	8" Raised Floors	8RU (4RU + 4RU)	D	1479297-1
Fiber Support Bar Kit	1479359, 1479360, 1479040, and 1479297	12 Adapter Plates or MPO Cassettes	E	1479326-1

Consolidation Points for Drop Ceiling Systems

FEATURES

- Designed for use in 2' x 2' ceiling tile grid systems
- Passive consolidation points accommodate standard 19-inch patch panels, cable management panels or 300-Pair cross-connects as listed
- Active consolidation points accommodate 2RU of active LAN equipment in addition to same passive components as the passive consolidation point 1479040
- Complies with NEC 300-22(c) requirements for use in environmental air spaces
- Allows moves, adds and changes without re-terminating and re-testing cable
- Forms an interconnect between work area cabling and horizontal feeder cables
- Complies with TIA/EIA-568-C and ISO 11801:2002 requirements



Figure A



Figure B



Figure C

ORDERING INFORMATION

Description	Total Capacity	Figure	Part Number
Passive Consolidation Points	5RU (2RU+1RU+2RU) for Passive Equipment	A	1479040-1
	Two 300-Pair Cross-Connect Blocks Without Legs	B	1479041-1
Active Consolidation Point	5RU (2RU+1RU+2RU) for Passive equipment, 2RU (2RU) for Active equipment	C	1479039-1

Modular and Cross-Connect Consolidation Points

FEATURES

- Designed for use in both raised floor and drop ceiling systems
- Allows moves, adds and changes without re-terminating and retesting cable
- Forms an interconnect between work area cabling and horizontal feeder cables
- Complies with TIA/EIA-568-C and ISO 11801 requirements
- Cross-connect consolidation points accommodate two 100-Pair 110Connect XC wiring blocks without legs
- 24-Port modular consolidation points accommodate four connector modules
- 48-port modular consolidation points accommodate eight connector modules
- Complies with NEC 300-22 (c) requirements for use in environmental air spaces
- Compliant with UL 2043 for use in environmental air spaces
- UL listed: file number E81956

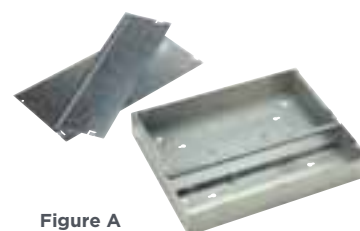


Figure A

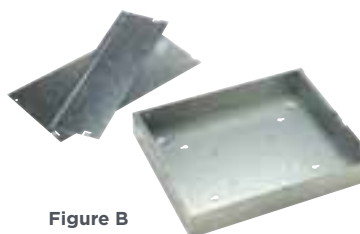


Figure B

ORDERING INFORMATION

Description	Maximum Capacity	Accommodates	Figure	Part Number
Modular Consolidation Points	24-Port	Four Consolidation Point Modules	A	406771-1
	48-Port	Six Consolidation Point Modules		1479322-1
Cross-connect Consolidation Point	200-Pair	Two 100-Pair 110Connect XC Wiring Blocks	B	406771-2

Modular Consolidation Point Modules

FEATURES

- Comply with TIA/EIA-568-C and ISO 11801 requirements
- Multimedia module accepts up to six SL series jacks, MT-RJ outlet jacks or SL Series inserts enabling custom configurations
- SL Series Modules feature individually replaceable ports
- MT-RJ module holds up to six MT-RJ patch panel jacks (sold separately)
- SC Modules suitable for multimode connectors



Figure A



Figure B



Figure C

ORDERING INFORMATION

Description		Port Count	Figure	Part Number
Modular Consolidation Point Modules	Category 6 (Jacks Included)	6-Port	A	1375367-1
	Category 5e (Jacks Included)	6-Port		406772-1
	Multimedia, Unshielded (Connectivity Not Included)	6-Port		1479696-1
	Multimedia, Shielded (Connectivity Not Included)	6-Port		1933895-1
	MT-RJ (MT-RJ Patch Panel Jacks Not Included)	6-Ports/12-Fibers	B	1375093-1
	SC Duplex (Includes Couplers)	6-Ports/12-Fibers	C	406788-1
	MPO Cassette and Fiber Insert			1479142-1

Consolidation Point Transition Cable Assemblies

FEATURES

- Form connections between work area and consolidation point
- Factory-assembled and tested
- Save time and money on moves, adds and changes
- Lead-Free (no heavy metals)
- Gray Cable Jacket
- Category 6 and 6A cable assemblies require jacks to be ordered and terminated separately



Figure A

ORDERING INFORMATION

End A	End B	Figure	Length	Part Number			
				Riser (CMR) T568A	Riser (CMR) T568B	Plenum (CMP) T568A	Plenum (CMP) T568B
Category 6A Shielded Modular Plug	Un-terminated		40'	4-1933920-0	4-1933921-0	4-1499783-0	4-1933335-0
			50'	5-1933920-0	5-1933921-0	5-1499783-0	5-1933335-0
			60'	6-1933920-0	6-1933921-0	6-1499783-0	6-1933335-0
			70'	7-1933920-0	7-1933921-0	7-1499783-0	7-1933335-0
			80'	8-1933920-0	8-1933921-0	8-1499783-0	8-1933335-0
			90'	9-1933920-0	9-1933921-0	9-1499783-0	9-1933335-0
Category 6 Modular Plug	Un-terminated		20'	1499056-1	1499056-5	1499057-1	1499057-5
			30'	1499056-2	1499056-6	1499057-2	1499057-6
			40'	1499056-3	1499056-7	1499057-3	1499057-7
			50'	1499056-4	1499056-8	1499057-4	1499057-8
Category 5e Modular Plug	SL Series Category 5e Modular Jack	A	20'	219172-1	219173-1	219174-1	219175-1
			30'	219172-2	219173-2	219174-2	219175-2
			40'	219172-3	219173-3	219174-3	219175-3
			50'	219172-4	219173-4	219174-4	219175-4

Copper

Specialty Products – Zone Cabling Solutions

50/125 μ m OM1 Multimode MT-RJ Transition Point Cable Assemblies

FEATURES

- Form connections between work area and consolidation point
- Factory-assembled and tested
- Save time and money on moves, adds and changes
- Riser (OFNR) rated
- Orange jacketing



ORDERING INFORMATION

Connector		Part Number				
		Length				
End 1	End 2	10'	20'	30'	40'	50'
MT-RJ Plug	MT-RJ Jack (with Right Angle Boot)	6457240-1	6457240-2	6457240-3	6457240-4	6457240-5

Easy Access Zone (EAZ) Enclosure

FEATURES

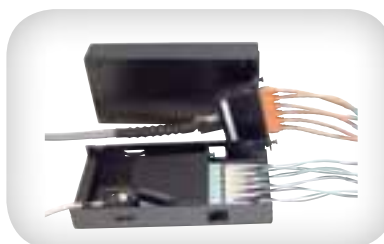
- Very low profile
- Supports a single adapter plate, MRJ21 cassette, or MPO cassette
- Gasketed entry to reduce dust intrusion
- Separate mounting/strain relief plate
- Not plenum rated
- Captive fasteners
- Economical
- Can be magnet mounted
- Robust construction
- Tamper resistant version available
- Internal bonding lug
- Nominal dimensions: 1.75" (4.5 cm) H x 11" (28 cm) D x 5.4" (14 cm) W



Figure A



Figure B



ORDERING INFORMATION

Description		Figure	Part Number
Easy Access Zone Enclosure	with Phillips Head 1/4 Turn Fasteners	A	1777215-1
	with Tamper-proof Cover Fasteners		1777215-2
Strain Relief Bracket for Easy Access Zone Enclosure		B	1777224-1

Copper

Specialty Products – Zone Cabling Solutions

Wall/Furniture Mounting Bracket

FEATURES

- Options to accept up to two snap-in adapter plates, MPO, MRJ21 cassettes (sold separately)
- Mounting holes for fastening to TIA rack, wall, or furniture
- Bracket color: black
- Compatible with magnetic mounts
- Optional cable management ring is not compatible with cassettes



Shown with optional cable ring

ORDERING INFORMATION

Description	Part Number
Wall/Furniture Mounting Bracket for snap-in adapter plates and MPO Cassettes	1777126-1
Optional Cable Management Ring	1206146-1
Wall/Furniture Mount Bracket for MRJ21 Cassettes	1933981-1

Velcro Cable Ties

FEATURES

For 8-inch and 12-inch ties, an order quantity of one equals one roll of ten ties.

ORDERING INFORMATION

Description	Figure	Part Number	
		Black	Blue
1" x 8"	A	1375253-2	-
1" x 12"	B	1375254-2	-
5/8" x 5 yards	C	1375255-2	1375255-6
1" x 12" Flame Retardant*		1375256-2	-

* NOTE: Complies with NEC 300-22(c) and (d) for use in environmental air handling spaces.
Available in black only.



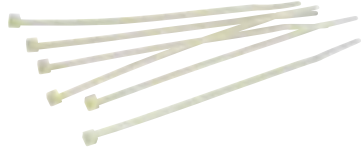
Figure B



Figure C

AMP-TY Nylon Cable Ties

ORDERING INFORMATION



Dimensions (Approximate)			Minimum Tensile Strength	Maximum Bundle Diameter	Package Quantity	Part Number	
Length	Width	Thickness				Natural	Black
4" (103.0 mm)	0.096" (2.44 mm)	0.037" (0.94 mm)	18 lbs (80.1 N)	0.75" (19.10 mm)	1000	2-604771-9	2-604771-0
					100	1-604771-9	1-604771-0
6" (155.0 mm)	0.140" (3.56 mm)	0.045" (1.14 mm)	30 lbs (133.5 N)	1.25" (31.75 mm)	1000	2-603227-9	2-603227-0
					100	1-603227-9	1-603227-0
8" (204.0 mm)	0.184" (4.67 mm)	0.047" (1.19 mm)	50 lbs (222.5 N)	1.75" (44.45 mm)	1000	2-604772-9	2-604772-0
					100	1-604772-9	1-604772-0
12" (300.0 mm)	0.183" (4.65 mm)	0.051" (1.30 mm)	50 lbs (222.5 N)	3.00" (76.20 mm)	1000	2-604751-9	2-604751-0
					100	1-604751-9	1-604751-0

Copper

Copper Accessories

Icon Wheels

FEATURES

Used with the following products:

- SL series modules
- SL series furniture outlets
- SL series mounting straps
- Modular jack boxes
- Faceplates
- Surface mount modules
- HideAway outlet
- HideOut outlet
- Iconable ACO faceplates
- FLEX-MODE faceplates
- MT-RJ rack mount enclosure
- MT-RJ snap-in adapter plate
- SL series Category 5E and 6 patch panels
- 110Connect Category 5 and 5e patch panels
- SL series multimedia jack patch panels
- Iconable ACO patch panels



Each Wheel Contains:

Part Number

Data	Blank	Phone	Fax	Modem	Print	Cat 5	Cat 5e	Cat 6	Cat 6A	V1	V2	D1	D2	Almond	Red	Green	Blue	Yellow	Black	Orange	White	Violet	Gray	Electrical Ivory
1	4	1	-	-	-	-	2	2	2	1	1	1	1	1375092-1	1375092-2	1375092-3	1375092-4	1375092-5	1375092-6	1375092-7	1375092-8	1375092-9	1-1375092-0	1-1375092-1
16	-	-	-	-	-	-	-	-	-	-	-	-	-	558198-1	558198-2	558198-3	558198-4	558198-5	558198-6	558198-7	558198-8	558198-9	1-558198-0	1-558198-1
-	-	16	-	-	-	-	-	-	-	-	-	-	-	558199-1	558199-2	558199-3	558199-4	558199-5	558199-6	558199-7	558199-8	558199-9	1-558199-0	1-558199-1
-	16	-	-	-	-	-	-	-	-	-	-	-	-	558821-1	-	-	-	-	558821-6	-	558821-8	-	1-558821-0	1-558821-1

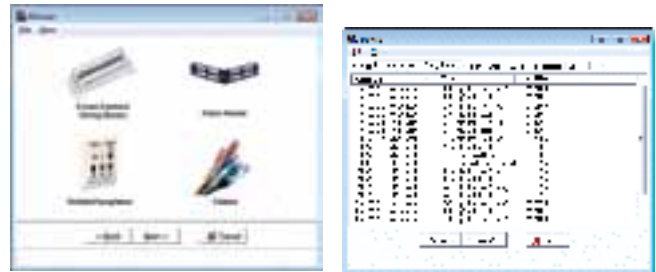
Copper

Copper Accessories

Identification Labels and Accessories

TE Connectivity is partnered with Silver Fox utilizing labeling software, label sheets and templates to meet today's labeling needs. Select from perforated card stock or pre-cut self-adhesive polyester label sheets which can be used with various style printers. The standard free version is ideal for small simple jobs or upgrade to the advanced version which offers enhanced features for complex builds. A variety of accessories and labels are also offered to support Type 105 mounting applications.

Visit www.te.com/labeling to download a free trial copy or to order software from Silver Fox, Ltd.



Advanced Purchased License

FEATURES

- Create simple builds
- Copy and paste information directly from spreadsheets or other applications
- Change font style
- Integrated tutorials
- Integrated context sensitive help
- No limit to printing pages per job
- Create complex builds
- Change font size
- Multiple builds
- Split labels
- Repeat previous build
- Import multiple column csv spreadsheet files
- Select start line for printing
- Save and open jobs
- Job notes facility
- Add symbols
- Change text alignment
- Change viewing scale
- Copy job from label type to another
- Print job notes
- Print page number and date
- Automatic web update facility*
- Purchase from our website eShop
- A trial of the advanced version is included with the standard version

*internet connection required

All versions are delivered via web download. Disks are available on request from our sales team. Please note that there will be an extra charge for this service. Multiple-user licenses are available direct from our sales team – contact us for details.

Standard Free Trial

FEATURES

- Create simple builds
- Copy and paste information directly from spreadsheets or other applications
- Change font style
- Integrated tutorials
- Integrated context sensitive help
- Limited to 5 pages printing per job
- Download free of charge from our website

AMP NETCONNECT Labeling Software

FEATURES

- Compatible with 32 or 64-bit versions of Microsoft Windows 2000, NT, XP, Vista or 7 operating systems
- Flexible build option to produce more complex alphanumeric identifiers
- Create identifiers consisting of up to 12 independent segments
- Can cope easily with the TIA/EIA-606-A standard identification sequences
- Insert symbols (all standard Windows symbols can be used)
- Save and edit builds
- Fine tune adjustment
- Split your label format as required
- Job notepad facility for builds saved to file
- Justify text
- Adjust font style and size
- Context-sensitive help

Visit www.te.com/labeling to download a free trial copy or to order software from Silver Fox, Ltd.

Standard Labels for Outlets

FEATURES

- Labels are designed to fit TE Connectivity faceplates and outlets (Reference compatibility list for correct label/out compatibility)
- Card stock labels are perforated and compatible with inkjet and laser printers
- Self-adhesive polyester labels are pre-cut and compatible with laser printers
- Labels are supplied on 8.5" x 11" sheets
- For use with:
 - SL series faceplates
 - HideAway multimedia outlet
 - Wiremold raceway faceplates
 - Universal office box, 6-port
 - Multimedia security outlet
 - ACO faceplates



Figure A



Figure B

ORDERING INFORMATION

Description	Label Size (W x H)	Labels per Sheet	Figure	Part Number	
				5 Sheets	100 Sheets
Card Stock	1.98" x 0.373"	72	A	1375356-1	5-1375356-1
Self-adhesive Polyester	1.98" x 0.373"	72	A	1375357-1	5-1375357-1
Card Stock	1.88" x .600"	45	B	2111415-1	5-2111415-1
Self-adhesive Polyester	1.88" x .600"	45	B	2111416-1	5-2111416-1

WIREMOLD is a trademark.

Label Covers for Faceplates

FEATURES

- Kit includes fifty die-cut labels and clear plastic covers
- For use in SL series, angled, iconable ACO, and Wiremold compatible faceplates



ORDERING INFORMATION

Description	Color	Part Number
Label Cover	Transparent	1375345-1

Universal Labels

TE's AMP NETCONNECT labeling software allows customization of the universal labels listed for use with multiple products.



ORDERING INFORMATION

Description	Application	Labels per Sheet	Labels per Package		Part Number	
			5 Sheets	100 Sheets	5 Sheets	100 Sheets
Self-adhesive Polyester	Modular Jack Box, 1-Port	216	1,080	21,600	1375358-1	5-1375358-1
	Modular Jack Box, 2-Port	120	600	12,000	1375358-1	5-1375358-1
	SL Series Furniture Outlet	72	360	7,200	1375358-1	5-1375358-1
	SL Series Faceplate, Double Gang	72	360	7,200	1375358-1	5-1375358-1
	110Connect Office Box, 2-Port and 4-Port	144	720	14,400	1375353-1	5-1375353-1

WIREMOLD is a trademark.

Labels for Patch Panels

FEATURES

- All labels are designed to fit panels listed in referenced compatibility
- Labels are supplied on 8.5 x 11" sheets
- Card stock labels are perforated and compatible with inkjet and laser printers
- Self-adhesive polyester labels are pre-cut and compatible with laser printers
- Special 0.25" high label is provided for use when icons are also desired
- For use with:
 - 110Connect Cat 6 patch panels and mini patch panels
 - 110Connect Cat 5e patch panels and mini patch panels
 - 110Connect Cat 5 patch panels and mini patch panels
 - SL series multimedia patch panels and mini patch panels
- 48-port 1RU SL Cat5e and Cat6 patch panels



ORDERING INFORMATION

Description	Label Size (W x H)	Labels per Sheet	Labels per Package		Part Number	
			5 Sheets	100 Sheets	5 Sheets	100 Sheets
Card Stock	3.10" x 0.50"	36	180	3600	1375351-1	5-1375351-1
Self-adhesive Polyester	3.10" x 0.50"	36	180	3600	1375352-1	5-1375352-1
	3.30" x 0.25"	72	360	7200	1375353-1	5-1375353-1
Card Stock	3.54" x .500"	36	180	3600	2111413-1	5-2111413-1
Self-adhesive Polyester	3.54" x .500"	36	180	3600	2111414-1	5-2111414-1
Self-adhesive Polyester	3.75" x .250"	72	360	7200	2111425-1	5-2111425-1

Label Covers for Patch Panels

FEATURES

- Includes twenty-five sheets, four clear plastic label covers per sheet
- Clear polyester plastic covers for use with Category 6, 5e, 5 and SL Series Multimedia Patch Panels with rear load interface housings
- Plastic covers for use with Category 6A and SL Series shielded Multimedia Patch Panels with front load interface housings
- Included with compatible patch panels



ORDERING INFORMATION

Description		Part Number
Label Covers for Patch Panels	Clear polyester plastic for use with rear load interface housing	1116044-2
	Plastic for use with front load interface housing	1-1933814-9

Copper

Copper Accessories

Labels for 110Connect XC Cross-Connect Wiring Blocks

FEATURES

- Labels are designed to fit TE's AMP NETCONNECT 610XC and 110Connect XC Cross-connect systems and other similar products
- Card stock labels: designed to fit into standard clear designation strips, available in TIA/EIA-606-A compliant colors, perforated, and compatible with inkjet and laser printers
- White self-adhesive polyester labels: designed for easy application to the front of the clear designation strips, pre-cut and compatible with laser printers
- Labels are supplied on 8.5 x 11" sheets



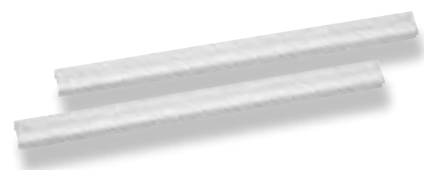
ORDERING INFORMATION

Description	Label Size (W x H)	Labels per Sheet	Color	90 Labels (5 Sheets)	1800 Labels (100 Sheets)
Card Stock	7.90" x 0.48"	18	White	1375354-1	5-1375354-1
			Blue	1375354-2	5-1375354-2
			Green	1375354-3	5-1375354-3
Self-adhesive Polyester	7.90" x 0.48"	18	White	1375355-1*	5-1375355-1*

*Note: Available in white only.

Clear Label Holder for 110Connect XC Wiring Blocks

Clear Label holders are used with 110Connect XC cross-connect systems.



ORDERING INFORMATION

Description	Part Number
Clear Label 110Connect XC Wiring Blocks	558417-1

Labels for Cable and Cable Assemblies

FEATURES

- Labels are designed for use on cable and cable assemblies
- Labels are pre-cut and compatible with laser printers



ORDERING INFORMATION

Description	Application	Label Size (W x H)	Labels per Sheet	Labels per Package		Part Number	
				5 Sheets	100 Sheets	5 Sheets	100 Sheets
Self-adhesive Polyester	4-Pair Cable	0.984" x 1.496"	48	240	4800	1479002-1	5-1479002-1
	25-Pair Cable	0.984" x 2.480"	24	120	2400	1479003-1	5-1479003-1

Faceplate/Outlet and Label Compatibility List

ORDERING INFORMATION

Description	New Card FP 2111415	New Adhesive FP 5111416	Card Stock 1375356	Self-Adhesive 1375357	Self-Adhesive 1375358	Self-Adhesive 1375353	Part Number
Labeled Faceplate Kit	X	X					2111008
	X	X					2111009
	X	X					2111010
	X	X					2111011
	X	X					2111012
	X	X					2111013
	X	X					2111014
	X	X					2111015
Non-Labled Faceplate Kits		X					2111021
		X					2111022
		X					2111023
		X					2111024
		X					2111025
SL Series Faceplates			X	X			1339118
			X	X			1479486
Angled Faceplates			X	X			1375155
			X	X			406185
Hideaway Outlet						X	503999
						X	503997
						X	503998
Hideaway Multimedia Outlet			X	X			1479815
			X	X			1479946
Multimedia Security Outlet							1116535
Surface Mount Outlet							557366
12-Port Universal Office Box			X	X			1479358
Modular Jack Boxes					X		1116697
					X		1116698
Wiremold Raceway Faceplates			X	X			1375050
			X	X			1375049
SL Series Furniture Outlets					X		1375005
					X		1375006

4-Pair cable assemblies available in all part numbers with self-adhesive 1479002

25-Pair cable assemblies available in all part numbers with self-adhesive 1479003

WIREMOLD is a trademark.

Faceplate/Outlet and Label Compatibility List

ORDERING INFORMATION

Description		Part Number	Description		Part Number
Patch Panel Assembly Front Load Housing	New-Card PP 2111413 New-Adhesive PP 2111414	1933307	Patch Panel Assembly Rear Load Housing	Card-Stock FP 1375351 Self-Adhesive FP 1375352 Self-Adhesive FP 1375353	406390
		1933308			406981
		1933309			406330
		1933310			406331
		1933198			406332
		1933319			1499604
		1933320			1499605
		1933321			1479206
		1933322			1479208
		1933412			1375013
		1933776			1375014
		1933199			1375015
	New-Adhesive PP 2111425	1933457			1375016
		1933458			1499600
		1933657			1499601
		1933199			1479153
		2111348			1479154
		2111349			1479155
					1479156
		1499602			
	1499603				

4-Pair cable assemblies available in all part numbers with self-adhesive 1479002

25-Pair cable assemblies available in all part numbers with self-adhesive 1479003

Copper

Copper Accessories

Faceplate/Outlet and Label Compatibility List

ORDERING INFORMATION

Description		Part Number
110xc Cross Connect	Card-Stock 1375354 Self-Adhesive 1375355	558841
		558842
		558843
		558839
		558840
		569432
		569433
		569434
		569438
		469439
		569440
		569444
		569445
		569446
		569853
		569854
		569855
		569856
		569857
		569858
		558635
		558637
		558639

4-Pair cable assemblies available in all part numbers with self-adhesive 1479002

25-Pair cable assemblies available in all part numbers with self-adhesive 1479003

Copper

Copper Accessories

Copper Connectivity Solutions – Accessories and Labels



HighBand
to Series 2 adapter



HighBand
dummy plug



HighBand
marking cap



HighBand
bridging test cord



HighBand
“look-both-ways”
test cord



HighBand
winged test adapter



HighBand
disconnect plug

ORDERING INFORMATION

Description	Quantity	Part Number
HighBand 10 to Series 2 adapter 1-pair adapter accepts any single pair Series 2 test cord for HighBand 10 testing	1	6451 2 178-04
Red dummy plug Plastic plug inserts into test/patch port of Ultim8 or HighBand 10 blocks for quick identification of special circuits. Flat surface can be written on or accepts a small adhesive sticker. Plugs block access to the pair and prevent accidental removal of jumper wires	100	6451 5 035-00
Red marking cap Plastic cap snaps over an Ultim8 or HighBand 10 block pair for quick identification of special circuits. Caps block access to prevent accidental removal of jumper wires, but do not interfere with patching	20	6462 2 101-01
Disconnect plug Plastic plugs insert into the patch/test port of Ultim8 or HighBand 10 blocks to open (disconnect) a circuit	20	
White		6462 2 097-00
Green		6462 2 097-20
Bridging test cord 1-pair connector to two banana plugs (connect to test equipment); used to test parallel to the circuit		6648 2 900-XX*
“Look-both-ways” test cord 1-pair connector to four banana plugs; provides ability to isolate cable side from jumper side	1	6648 2 901-XX*
Winged test adapter Provides ability to monitor a circuit without disruption	1	6646 3 001-01
Ultim8/Highband 10 1-pair site mounted test cord Monitor or “look-both-ways” test circuit with flip of a switch. Mounts on 1 position of back mount frame or directly on a wall. Includes RJ11 jack to quickly isolate feeder or distribution network problems	1	6645 2 127-XX*

*Note: Replace XX with: 01 = 1' 07 = 7'
04 = 4' 10 = 10'

Copper

Copper Accessories

Type 105 Label Strip

Recommended for patched environments, this transparent label strip snaps onto the face of an Ultim8 or HighBand 10 block. The label strip covers only the top row of the block and is fully visible with patch cords in place. Includes slide-in paper labels (Part number: 6631 3 102-XX) or can be written on directly.



Type 105 label strip
shown on HighBand 10 block

ORDERING INFORMATION

Description	Dimensions (HxWxD)	Part Number
Type 105 label strip Quantity per Pack: 10	0.81" x 4.25" x 0.88" (20.6 mm x 107.9 mm x 22.2 mm)	6462 2 096-00

Type 105 Label Holder

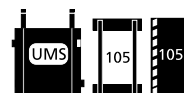
The label holder mounts on a universal mounting system mounting bracket in the Type 105 position, a Type 105 mounting bracket or a Type 105 rod mount bracket to provide extensive labeling. Jumper rings on both sides provide additional wire management. Each label holder requires one block position. A paper label and plastic cover are included. Accepts label part number: 6631 3 106-XX.



Type 105 label holder

ORDERING INFORMATION

Description	Dimensions (HxWxD)	Part Number
Type 105 label holder Quantity: 1	0.81" x 5.63" x 1.31" (20.57 mm x 143 mm x 33.27 mm)	6630 2 004-05



Type 105 Hinged Label Holder

Recommended for jumpered environments, the holder snaps onto a block face to provide a hinged cover over the block termination contacts and patch/test ports. A clear plastic protective cover and a paper label (Catalog Number: 6631 3 100-03) are included for each side of the hinged cover. The hinged label holder extends 0.38 inches (9.5 mm) from the face of the block.



Hinged label holder
closed

ORDERING INFORMATION

Description	Dimensions (HxWxD)	Part Number
Type 105 hinged label holder Quantity: 1	0.63" x 4.31" x 0.63" (16 mm x 109.5 mm x 16 mm)	6089 2 015-01



Hinged label holder
open

Copper

Copper Accessories

Side-Mount Label Holder

The holder mounts onto the side of any Ultim8 or HighBand 10 block.
Two side-mount label holders attach to each block, one on each side.
A small rectangular paper label is included with each holder.

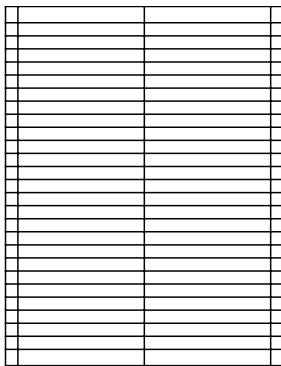


Side-mount label holder

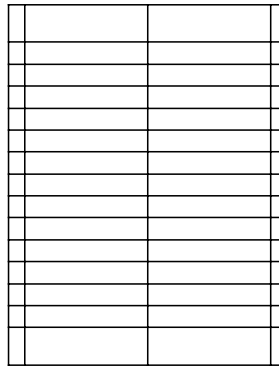
ORDERING INFORMATION

Description	Dimensions (HxWxD)	Part Number
Side-mount label holder Quantity: 1	0.63" x 1" x 0.31" (16 mm x 25.4 mm x 7.87 mm)	6462 2 016-00

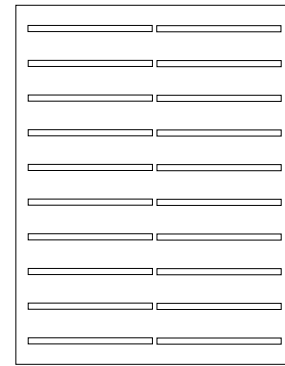
Paper Labels



Label Sheet for Type 105
Hinged



Label Sheet for Type 105
Label Holder



Label Sheet for Type 105
Label Strip

EXAMPLES OF TIA/EIA-606 COLOR CODING

Color	Identifies
Orange	Demarcation point (e.g., central office terminations)
Green	Network connections (e.g., network and auxiliary equipment)
Purple	Common equipment, PBX, LANs, multiplexers (e.g., switching and data equipment)
White	First level backbone (e.g., main cross-connect [MC (campus distributor [CD])]) to a horizontal cross-connect [HC (floor distributor [FD])] or to an intermediate cross-connect [IC (building distributor [BD])])
Gray	Second level backbone (e.g., IC [BD] to a HC [FD])
Blue	Horizontal cable (e.g., horizontal connections to telecommunications outlets; formerly referred to as "station cable")
Brown	Interbuilding backbone (campus cable terminations) NOTE: Brown takes precedence over white or gray for interbuilding runs
Yellow	Miscellaneous (e.g., auxiliary, alarms, security)
Red	Reserved for future use (also, key telephone systems)

Based on ANSI/TIA/EIA-606-A, May 1, 2002

Tech Tip - Use of the TIA/EIA-606 color standards greatly increases identification of network system components. TE strongly recommends following standards whenever possible.

Paper Labels

ORDERING INFORMATION

Description	Part Number
Paper label sheet for Type 105 hinged label holder Quantity: 1 sheet per package Labels come pre-cut on a white, 8.5" x 11" sheet, with 50 labels per sheet; accommodate hand or laser printing	6631 3 100-03
Paper label sheets in TIA/EIA-606 colors for Type 105 hinged label holder Quantity: 1 sheet per package Labels come pre-cut on an 8.5" x 11" sheet with 50 labels per sheet; accommodate hand or laser printing	6631 3 105-XX* Not available in -05 (brown), -06 (yellow), -07 (red) or -08 (white)
Paper label sheet for Type 105 label holder Quantity: 1 sheet per package Labels come pre-cut on an 8.5" x 11" sheet, with 26 labels per sheet	6631 3 106-XX*
Paper label sheet for Type 105 label strip Quantity: 1 sheet per package Labels come perforated on an 8.5" x 11" sheet, 20 labels per sheet; accommodate hand or laser printing. Available in all TIA/EIA-606 specified colors, two colors per sheet (one color on each side)	
Orange, red	6631 3 102-01/09
Green, purple	6631 3 102-02/03
White, blue	6631 3 102-04/06
Gray, brown	6631 3 102-05/07
Yellow, white	6631 3 102-08

*Replace XX with:

00 = orange	05 = brown
01 = green	06 = yellow
02 = purple	07 = red
03 = gray	08 = white
04 = blue	

SL Series Modular Jack Termination Tool and Accessories

FEATURES

- Termination tool for SL series jacks
- Simplifies the termination
- More consistent terminations
- Terminates and cuts all 8 conductors at once
- Simplifies lacing process and speeds up terminations
- Tool without lacing fixture is for use with SL series AMP-TWIST 6A modular jacks
- Termination video can be viewed at www.te.com/EnterpriseNetworks

ORDERING INFORMATION

Description	Part Number	
SL Series Modular Jack Termination Tool	With Lacing Fixture	1725150-1
	Without Lacing Fixture	1725150-3
Replacement Lacing Fixture		1673956-1



SL Series Modular Jack Termination Tool UTP Termination Method



Pro-Installer Twisted Pair Tool Kit

For use with 110Connect and SL Series modular jacks and other 110-style terminations

FEATURES

- Installer's knife
- Pro impact tool with extended-life blade
- Shears
- TE's AMP NETCONNECT tool pouch



ORDERING INFORMATION

Description	Part Number
Pro-Installer Twisted Pair Tool Kit	1375307-1

110 Punch Down Tools with Blades

FEATURES

- The industry standard termination tool for all 110Connect terminations
- Each tool comes with a blade
- For use with 110Connect and SL series modular jacks and other 110-style terminations

ORDERING INFORMATION

Description	Figure	Part Number
Pro Impact Tool with Extended-Life Blade	A	1375308-1
Standard Impact Tool with Standard Blade	B	1583608-1
Non-Impact Tool with Standard Blade	C	1583236-1

Figure A



Figure B



Figure C



110 Punch Down Tool Replacement Blades

Extended-life blades have a lifetime three times longer than standard blades.

ORDERING INFORMATION

Description	Figure	Part Number
Extended-Life 110 Blade	A	1375309-1
Extended-Life 66/110 Blade	B	1375310-1

Figure A



Figure B



KRONE Insertion Tool

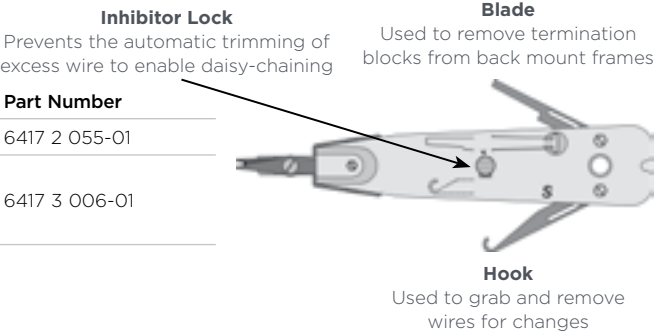
FEATURES

- Insertion sensor ensures the conductor is fully inserted into the block contacts before allowing any excess wire to be cut off
- An inhibitor lock prevents the scissors from operating—particularly useful in applications in which conductors are daisy-chained through several contacts
- Universal scissors cut a variety of cable types, including 20 AWG through 26 AWG and Type 1 foam-insulated conductors
- Specially designed wire hook removes terminated conductors
- Blade helps to remove blocks easily from back mount frames



ORDERING INFORMATION

Description	Part Number
Insertion tool Quantity: 1	6417 2 055-01
Disposable tool Quantity: 1 Terminates wire into contact, will not cut excess wire; snips required to cut off excess wire	6417 3 006-01



Palm Grip Tool

FEATURES

- Fits comfortably into one hand
- Holds one 110Connect jack, one SL Series 110Connect jack, or ACO 110 card edge connector for termination



ORDERING INFORMATION

Description	Part Number
Palm Grip Tool	569949-1

Copper

Copper Tooling

Cable Strippers and Cutters

FEATURES

- Cyclops stripper suitable for use with UTP Cable
- Coaxial stripper can be adjusted for use with RG-6, RG-58 and RG-59 cable

ORDERING INFORMATION

Description	Figure	Part Number
Cyclops Cable Stripper	A	1375317-1
Coaxial Cable Stripper	B	1490490-1
Diagonal Cutters	C	1116571-1

Figure A



Figure B



Figure C



PRO-CRIMPER III Hand Tool and Die Sets for Twisted Pair Applications

FEATURES

- Ratchet control provides complete termination cycle
- Interchangeable die sets accommodate all plug sizes
- Sold with or without die. Dies can be purchased separately

ORDERING INFORMATION

Description		Part Number
PRO-CRIMPER III Hand Tool		354940-1
Tooling for External 8 Position Category 3, 5 and 5e Modular Plugs	Hand Tool and Die Set	224928-1
	Die Set Only	224928-2



Copper

Copper Tooling

Tooling Category 6 Modular Plugs

FEATURES

- Used with Category 6 modular plugs
- Ratchet control provides complete termination cycle
- Die set and tool crimps both the strain relief and the modular contacts at the same time
- Interchangeable die sets accommodate all plug sizes
- Sold with or without die. Dies can be purchased separately



ORDERING INFORMATION

Description	Part Number		
Hand Tool Only	354940-1		
Die Set Only	1-790163-0	790163-6	790163-2
Tool with Die	790163-9	790163-5	790163-1
Cable OD		6-7 mm	5-6 mm
Plug Style	Full Body	Short	Long
1479682			x
1479683			x
1479185		x	
1479184		x	
1375202			x
1357204			x
2111283			x
2111434			x
1499598	x		
1933433	x		

Copper

Copper Tooling

Pro-Installer's Modular Plug Hand Tool

FEATURES

- Ratchet control provides complete termination cycle
- Sold with and without die sets
- Interchangeable die sets accommodate all plug sizes
- Die set to modular plug cross-reference shown



ORDERING INFORMATION

Hand Tool without Die: 2-231652-0					
DOT COLOR	Gray	White	Blue	Violet	Black
Die Only P/N	1-853400-4	1-853400-0	853400-8	853400-7	853400-1
Hand Tool with Die	3-231652-6	3-231652-0	2-231652-8	2-231652-7	2-231652-1
Cat 3 and Cat 5					
1479583		x			
1479584		x			
1479585		x			
1479586		x			
554169					x
554170					x
554710			x		
554720					x
554739					x
555042			x		
555174				x	
555175				x	
555177				x	
555426				x	
557315					x
558530		x			
569278		x			
569550		x			
569552		x			
569530					x
569532					x
569542			x		
641337			x		
641335			x		
Cat 6					
1933373			x		
1933374			x		
2111262	x				

Pro-Installer's Modular Plug Hand Tool Kits and Accessories

FEATURES

- Each kit contains carrying case, blade replacement kit, screw driver, and items as listed
- Modular plug to die set cross reference listed as shown



ORDERING INFORMATION

Description	Included Components						Part Number
	Hand Tool 2-231652-0	High Performance, 8-Position Die Set 1-853400-0	8-Position Line Die Set 853400-1	6-Position, Long Body Die Set 853400-7	4- & 6-Position Line Die Set 853400-8	4-Position Handset Die Set 853400-3	
Pro-Installer's Mod Plug Hand Tool Kits	X	X	X	X	X	—	1-231666-4
	X	—	X	X	X	X	1-231666-3
	X	—	X	X	X	—	1-231666-2
	X	—	X	—	X	X	1-231666-1
	X	—	X	—	X	—	1-231666-0
Carrying Case, Blade Replacement Kit and Screw Driver ONLY							231666-9
Replacement Blade Kit (5 Cutters and 5 sets of Strip Blades)							231662-5
Cutter Blade							856727-1

Copper

Copper Tooling

Pistol Grip Tool for AMP-BARREL Edge Connectors

FEATURES

- The pistol grip tool terminates AMP-BARREL edge connectors one pair at a time
- Shortens assembly time by trimming conductors to the proper length and helps maintain proper pair twist for high performance cables
- This tool requires the installation kit to be fitted with a special edge connector, part number 406351-1



ORDERING INFORMATION

Description	Part Number
Pistol Grip Tool with Head	58568-1
Head only	122533-1

AMP-BARREL Wire Insertion Tools

- Used to insert and terminate wires into the special edge connector for use with the pistol grip tool
- Wire insertion tools for undercarpet transition blocks may be used to insert and terminate wires into AMP-BARREL connectors used in undercarpet cabling system transition blocks
- Wire insertion tools for undercarpet transition blocks cuts off conductor when it is inserted

Figure A



Figure B



ORDERING INFORMATION

For Use With:	Figure	Part Number
ACO Edge Connectors	A	556706-1
Wire Insertion Tool for UC Transition Blocks	B	231890-1

Copper

Copper Tooling

Portable “Butterfly” Hand Tool (MI-1) for CHAMP 25-Pair Connectors

FEATURES

- Mass terminates and shears all wires in a single operation
- Wires can be laced in tool or in separate lacing fixture
- Base plate can be bench-mounted



ORDERING INFORMATION

Description	Part Number
Standard 14-50 Positions, 90° Wire Dress	229378-1
Optional Lacing Fixture	230328-3

Palm Grip Hand Tool Kits

FEATURES

- 14 to 64-position kit includes wire inserter, all 5 sizes of index slides, cable clamp, insertion/extraction tool (230238-1), and carrying case
- 50-position kit includes wire inserter, 50-position index slide and cable clamp



ORDERING INFORMATION

Description	Part Number
14 to 64-Position	229764-2
50-Position only	229451-2

Insertion/Extraction Tools

FEATURES

- Used with CHAMP Connectors
- Wire insertion tool is used to insert individual wires when making repairs
- Contact insertion/extraction tool is used to replace damaged contacts

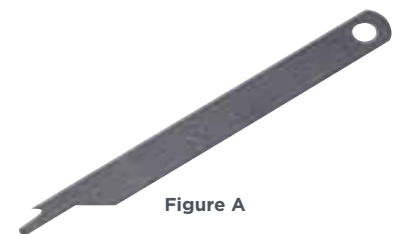


Figure A

ORDERING INFORMATION

Description	Figure	Part Number
Contact Insertion/Extraction Tool	A	230238-1
T-Handle Wire Insertion Tool	B	229384-1



Figure B

Twisted Pair Testing Tools

FEATURES

- 4-Pair UTP Tester:
 - Tests for opens, shorts and wire map (mis-wires, reversals, and split pairs)
 - Auto-on/off feature
 - Battery low indicator
- Butt Set:
 - LCD display shows: on-hook voltage, number dialed, off-hook current, caller ID, stored numbers, etc.
 - Tone and pulse dialing
 - 6-Position modular cord set attachment included
 - Auto-off feature
- Tone Generator:
 - Three built-in tones
 - Auto-off feature
 - Separate talk battery for increased voltage and power for test sets
 - 6-Position modular jack allows multiple cord/test lead sets to be used for different applications
 - Comes with test lead set
- Tone Tracer:
 - Permits wire and cable identification without direct metallic contact
 - Ergonomic design
 - Can be used with any tone generator
 - Quick change tips available



Figure A



Figure B



Figure C



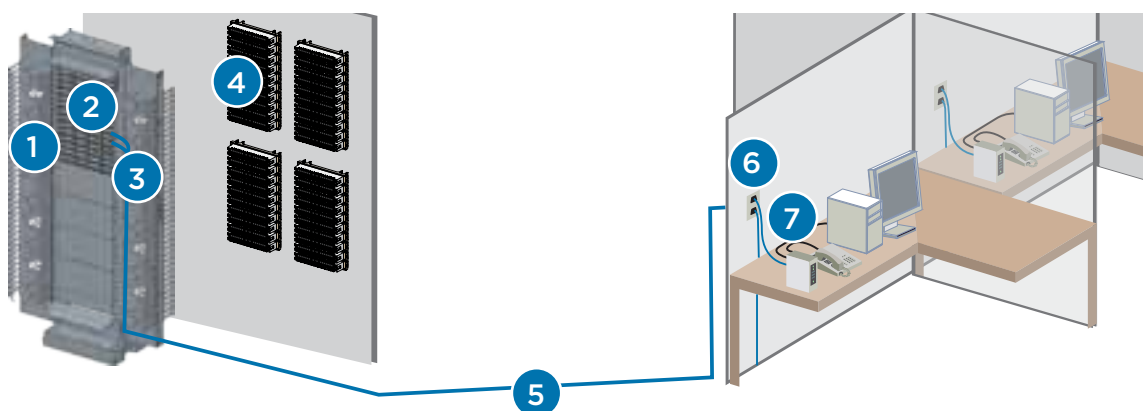
Figure D

ORDERING INFORMATION

Description	Figure	Part Number
4-Pair UTP Tester	A	1490530-1
Butt Set	B	1490532-1
Tone Generator	C	1490531-1
Tone Tracer	D	1490533-1

Copper

Copper Solution Guide



Category 5e UTP Solution

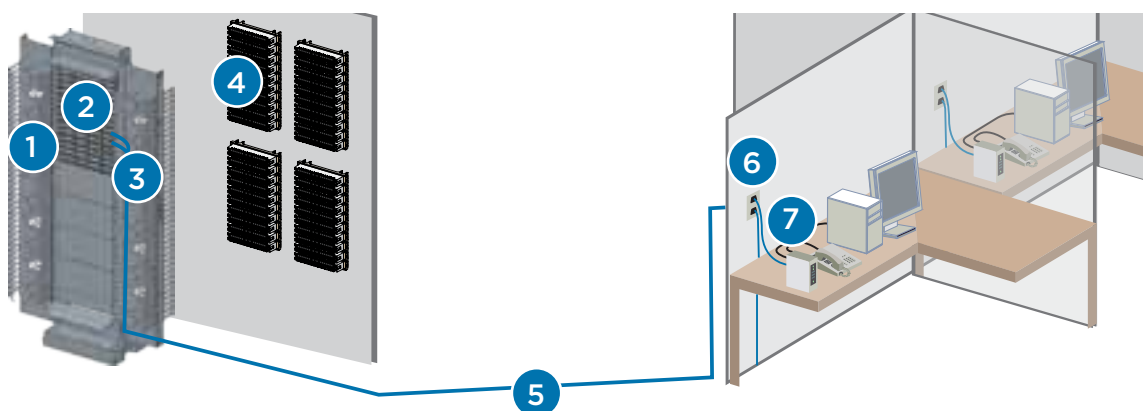
19-Inch Rack	1		2 post, 3" deep	1933559-1
			4 post adjustable	1933570-1
Cable Management	1	Horizontal 2RU panel	Single sided	1933532-1
			Double sided	1933533-1
		Double-sided vertical manager	6"	1933534-1
			6" Combination	1933540-1
Cat 5e UTP Cable - 520 series	5		Plenum	TE520P-XXRB**
			Riser	TE520R-XXRB**
Cat 5e UTP Patch Panel	2	Straight SL	24 port	1479154-2
			48 port	1479155-2
		Angled SL	24 port	1499602-2
			48 port	1499603-2
		Dynamic	24 port	PP24AC5ET
		Dynamic	48 port	PP48AC5ET
Cat 5e UTP Cable Assemblies	3 7		White	TCPC-5ERUVB-WTYF**
			Blue	TCPC-5ERUVB-BLYF**
Cat 5e UTP Termination Blocks	4	110Connect XC	100-pair kit	569439-1
			300-pair kit	569445-1
			Cable trough with legs	569389-1
Cat 5e UTP Outlet	6	Faceplate single gang w/ label and icons	1 port	2111008-x*
			2 port	2111009-x*
			4 port	2111011-x*
		Surface Mount Module	2 port	1933668-x*
			4 port	1933671-x*
		RJ45 without dust cover		1375191-x*
		RJ45 with dust cover		1375190-x*

*x denotes color

**denotes color(XX) and length (YY)

Copper

Copper Solution Guide



Category 6 UTP Solution

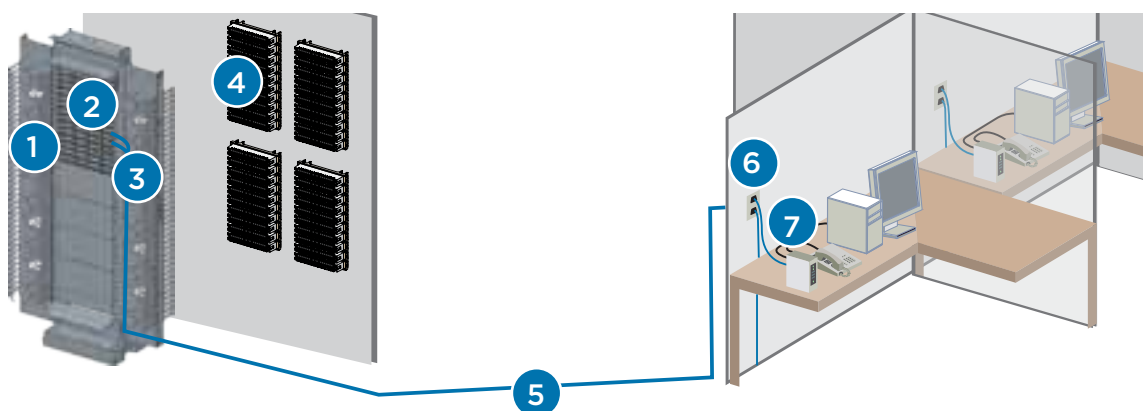
19-Inch Rack	1		2 post, 3" deep	1933559-1
			4 post adjustable	1933570-1
Cable Management	1	Horizontal 2RU panel	Single -sided	1933532-1
			Double -sided	1933533-1
		Double-sided vertical manager	6"	1933534-1
			6" Combination	1933540-1
Cat 6 UTP Cable - 620 series	5		Plenum	TE620P-XXRB**
			Riser	TE620R-XXRB**
Cat 6 UTP Patch Panel	2	Straight	24 port	1375014-2
		Straight	48 port	1375015-2
		Angled	24 port	1499600-2
		Angled	48 port	1499601-2
		Dynamic Angled	24 port	PP24AC6T
		Dynamic Angled	48 port	PP48AC6T
Cat 6 UTP Cable Assemblies	3 7		White	TCPC-6RUVB-BLYYF88**
			Blue	TCPC-6RUVB-BLYYF**
Cat 6 UTP Termination Blocks	4	HighBand	300-pair kit - 12-way kit	6450 1 101-10
			HighBand 25 cable trough	6450 2 157-00
			Vertical Management Rings	6450 2 156-20
			Vertical Management Cover	6450 2 158-20
Cat 6 UTP Outlet	6	Faceplate single gang w/label and icons	1 port	2111008-x*
			2 port	2111009-x*
			4 port	2111011-x*
		Surface Mount Module	2 port	1933668-x*
			4 port	1933671-x*
		RJ45 without dust cover		1375055-x*
		RJ45 with dust cover		1375187-x*

*denotes color

**denotes color(XX) and length (YY)

Copper

Copper Solution Guide



Category 6A UTP Solution

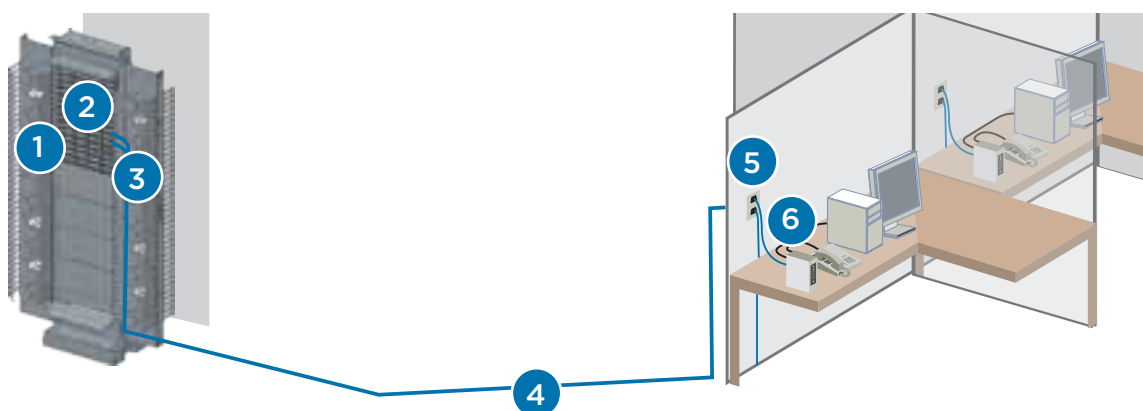
19-Inch Rack	1		2 post, 3" deep	1933559-1
			4 post adjustable	1933570-1
Cable Management	1	Horizontal 2RU panel	Single -sided	1933532-1
			Double -sided	1933533-1
		Double-sided vertical manager	6"	1933534-1
			6" Combination	1933540-1
Cat 6A UTP Cable	5		Plenum	TE640P-XX02**
			Riser	TE640R-XX02**
Cat 6A UTP Patch Panel	2	Dynamic	24 port	PP24AC6AT
			48 port	PP48AC6AT
		Straight	24 port	2111570-1
			48 port	2111571-1
		Angled	24 port	2111572-1
			48 port	2111573-1
Cat 6A U/UTP Cable Assemblies	3 7	568B	White	TCPC-6ARUVB-WTYF**
			Blue	TCPC-6ARUVB-BLYF**
Cat 6A UTP Termination Blocks	4	HighBand	144-pair kit - 12-way kit	6450 1 107-01
			HighBand 25 cable trough	6450 2 157-00
			Vertical Management Rings	6450 2 156-20
			Vertical Management Cover	6450 2 158-20
Cat 6A UTP Outlet	6	Faceplate single gang w/ label and icons	1 port	2111008-x*
			2 port	2111009-x*
			4 port	2111011-x*
		Surface Mount Module	2 port	1933668-x*
			4 port	1933671-x*
		RJ45 without dust cover		1933476-x*
		RJ45 with dust cover		2111676-x*

*denotes color

**denotes color(XX) and length (YY)

Copper

Copper Solution Guide



Category 6A Shielded Solution

19-Inch Rack	1		2 post, 3" deep	1933559-1
			4 post adjustable	1933570-1
Cable Management	1	Horizontal 2RU panel	Single-sided	1933532-1
			Double-sided	1933533-1
		Double-sided vertical manager	6"	1933534-1
			6" Combination	1933540-1
Cat 6A F/UTP Cable	4		Plenum	TE640PF-XX02**
			Riser	TE640RF-XX02**
Cat 6A Shielded Patch Panel	2	Straight	24 port	1933319-2
		Straight	48 port	1933320-2
		Angled	24 port	1933321-2
		Angled	48 port	1933322-2
Cat 6A F/UTP Cable Assemblies	3 6		White	TCPC-6AFVB-WTYF**
			Blue	TCPC-6AFVB-BLYF **
Cat 6A Shielded Outlet	5	Faceplate single gang w/ label and icons	1 port	2111008-x*
			2 port	2111009-x*
			4 port	2111011-x*
		Surface Mount Module	2 port	1933668-x*
			4 port	1933671-x*
		RJ45 without dust cover		1711342-2
		RJ45 with dust cover		1711160-2

*denotes color

**denotes color(XX) and length (YY)

