

Category 6 Products





25 Year System Performance Coverage*

We are confident that your AMP NETCONNECT cabling system will keep performing to current TIA/EIA industry standards. If the registered system ever fails to meet those standards within 25 years of the date of installation, we'll provide the reasonable parts and labor to replace or repair the AMP NETCONNECT product.



25 Year Component Coverage*

Tyco Electronics also offers a 25 Year Component Warranty to protect individual AMP NETCONNECT cabling system components. If a component fails within 25 years of the date of installation, we'll provide the reasonable parts to replace or repair the registered AMP NETCONNECT product.

It's Standard Equipment

This coverage is automatically part of the package when*:

- AMP NETCONNECT products are specified end-to-end
- A Tyco Electronics authorized NETCONNECT Design & Installation (ND&I) contractor registers the network project with Tyco Electronics
- That ND&I performs the actual installation in accordance with Tyco Electronics requirements

Who's Covered

Unlike most systems suppliers, Tyco Electronics provides warranty coverage directly to the end user. Many suppliers provide coverage to the installers, who then provide coverage to the customer. But with Tyco Electronics warranties, there are no middlemen. The warranties are between you and Tyco Electronics.

For more information, please visit: <http://www.tycoelectronics.com/aboutus/pdf/tc.pdf>

Or call: 1-800-553-0938

Outside the U.S., please contact your local AMP NETCONNECT product sales office.

People & Products to Answer the Cabling Challenge.

Cabling a retail store, casino or office building can be complex. Yet the solution for productive connectivity and cable management can be as simple as talking to the right people - The AMP NETCONNECT business unit of Tyco Electronics.

The reason is what we bring to the building infrastructure challenges you face. In-depth technical knowledge and expertise from decades of experience. Innovative technologies from ongoing R&D. And quality products for every power, data, voice and video networking need. One of the broadest lines in the industry, in fact.

Additionally, it's what we do to answer the challenge: develop and deliver integrated, made-to-order solutions that optimize network performance, increase productivity and produce more immediate return-on-investment.

And it's not just providing technology. It's making sure solutions are efficiently and effectively installed: working with distributors and customers so products are delivered when and where you need them. And maintaining a global network of certified installation contractors.

It all means, simply, that AMP NETCONNECT cabling systems provide the answers you're looking for: the whole solution for any cabling challenge. From the ground up.

*Some conditions may apply. AMP NETCONNECT Home Net-Works Systems qualify for a 25 year component warranty only. For more information, please visit www.ampnetconnect.com or call 1-800-553-0938. Outside the U.S., please contact your local AMP NETCONNECT product sales office.



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Section Facts

- Components meet or exceed all ANSI/TIA and ISO specifications
- Cables are Listed for safety (CMR/CMP)
- Variety of colors and packaging available
- A complete line of cable assemblies for any communications scenario
- Factory-terminated and tested cable assemblies manufactured using quality AMP NETCONNECT cables and connectors
- Tyco Electronics offers one of the broadest assortments of connectors and cable assemblies in the world and is continually introducing new products. If you don't see what you need in this catalog, please contact Tyco Electronics Product Information Center at 1-800-522-6752

Twisted Pair Cable Information



WR = Wooden Reels



RB = Reel-in-a-Box



PB = Pull Box

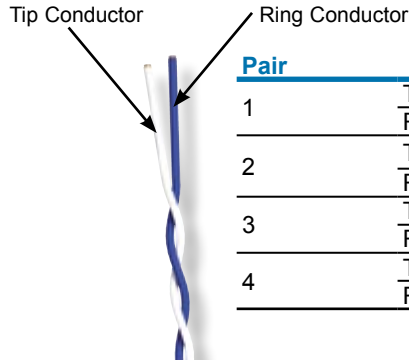
Unless otherwise specified, all lengths are 1000 feet (305 meters). Other lengths and colors available, call for details. Package types are listed in each chart.

Twisted Pair Cable Temperature

Category	Condition	Riser/Plenum
Cat 6, 6E	Storage	-4 — 140°F (-20 — 60°C)
	Operating	-4 — 140°F (-20 — 60°C)
	Installation	40 — 140°F (4 — 60°C)

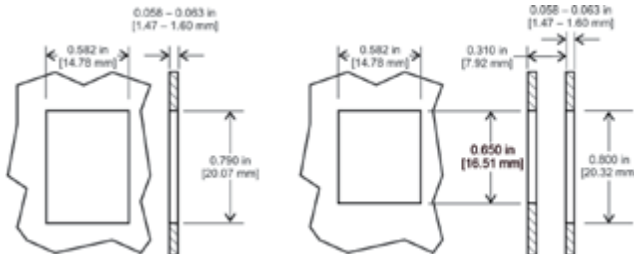
4-Pair Conductor Color Code

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



Twisted Pair

Suggested Modular Jack Cutouts



Suggested Single Panel Cutout

Suggested Flush Mount Panel Application Cutout

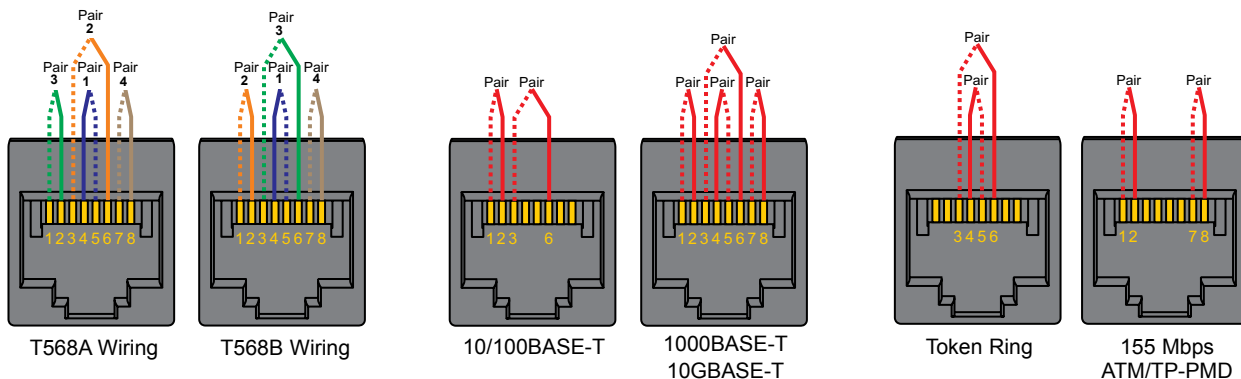
Die Set/Tool to Modular Plug Cross-Reference

Cat 6 Modular Plugs	Modular Plug Tool Kits	
	790163-1	790163-5
1479185	-	X
1479184	-	X
1375202	X	-
1375204	X	-

AMP NETCONNECT Modular Jack Technical Reference

Modular Jack Mating Cycles	110 Contacts Terminations	Modular Jack Pull Force	Voltage	Operating Temperature	Approvals
750	200	20 lbs (89 N)	150 VAC max.	-40° – 70°C (-40° – 158°F)	UL Listed File Number: E81956

Application Wiring Diagrams for Modular Jacks



T568A Wiring

T568B Wiring

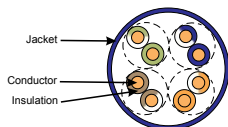
10/100BASE-T

1000BASE-T
10GBASE-T

Token Ring

155 Mbps
ATM/TP-PMD

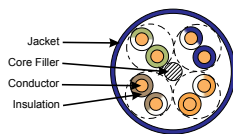
610 Series, Category 6 UTP Cable



- Performance characterized to 250 MHz
- Meets ANSI/TIA-568-C.2 Category 6 and ISO Class E 11801: 2002 specifications
- Intertek ETL SEMKO Listed (CMR/CMP)
- Exceeds all requirements for Gigabit Ethernet
- Lead-free (no heavy metals)
- 23 AWG, solid conductors

UL/NEC Ratings	Pair Count	Package	Part Numbers				Weight lbs/kft	Vp (%nom)	Dimensions (in)	
			White	Gray	Blue	Yellow			Dielectric	Outside
CMP	4	RB	1933047-2	1933047-4	1933047-6	1933047-8	24	74	0.040	0.206
		WR	1933047-1	1933047-3	1933047-5	1933047-7				

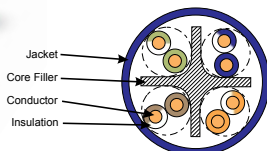
620 Series, Category 6 UTP Cable



- Performance characterized to 600 MHz
- 3 dB NEXT performance above Category 6
- Meets or exceeds ANSI/TIA-568-C.2 Category 6 and ISO Class E 11801: 2002 specifications
- Intertek ETL SEMKO Listed (CMR/CMP)
- Independently verified by Intertek ETL SEMKO testing services
- Exceeds all requirements for Gigabit Ethernet
- Lead-free (no heavy metals)
- 23 AWG, solid conductors

UL/NEC Ratings	Pair Count	Package	Part Numbers				Weight lbs/kft	Vp (%nom)	Dimensions (in)	
			White	Gray	Blue	Yellow			Dielectric	Outside
CMR	4	RB	219560-2	219560-4	219560-6	219560-8	26	70	0.042	0.230
		WR	219560-1	219560-3	219560-5	219560-7				
CMP	4	RB	219567-2	219567-4	219567-6	219567-8	24	74	0.040	0.206
		WR	219567-1	219567-3	219567-5	219567-7				

630 Series, Category 6E UTP Cable



- Performance characterized to 600 MHz
- 12 dB NEXT performance above Category 6
- Meets or exceeds ANSI/TIA-568-C.2 Category 6 and ISO 11801: 2002 Class E specifications
- Intertek ETL SEMKO Listed (CMR/CMP)
- Independently verified by Intertek ETL SEMKO testing services
- Exceeds all requirements for Gigabit Ethernet
- Lead-free (no heavy metals)
- 23 AWG, solid conductors

UL/NEC Ratings	Pair Count	Package	Part Numbers				Weight lbs/kft	Vp (%nom)	Dimensions (in)	
			White	Gray	Blue	Yellow			Dielectric	Outside
CMR	4	RB	1499038-2	1499038-4	1499038-6	1499038-8	34	70	0.042	0.260
		WR	1499038-1	1499038-3	1499038-5	1499038-7				
CMP	4	RB	1499033-2	1499033-4	1499033-6	1499033-8	35	74	0.040	0.245
		WR	1499033-1	1499033-3	1499033-5	1499033-7				

SL Series Category 6 Modular Jacks

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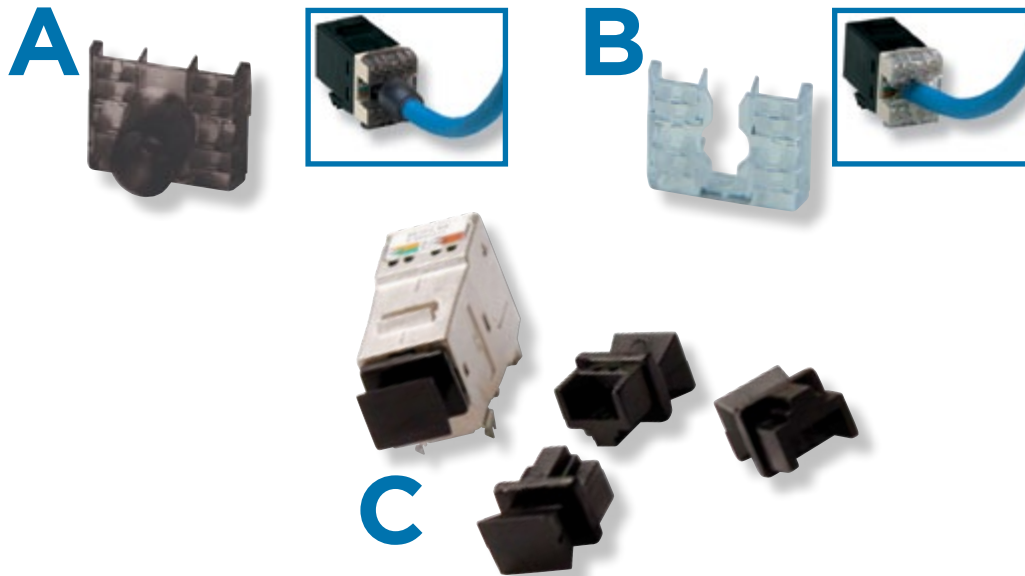


- Thin profile improves outlet density
- Modular Jacks available with integral dust covers
- 180° or 90° cable dress for easy termination
- Universal wiring label permits wiring to T568A or T568B
- Meets or exceeds all TIA and ISO component performance requirements
- Bend-limiting strain relief included 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, see Chapter 22
- RoHS compliant
- Bulk packaging is 25 jacks per bag, 4 bags per carton
- Colors in table are approximate
- For unloaded patch panels see Chapter 15

Description	Shielding	Cable Entry	Jack Color	Without Dust Cover	With Dust Cover	Without Dust Cover Bulk Packaged		
SL Series Category 6 Modular Jacks	Unshielded	90° (Side) or 180° (Rear)	Almond	1375055-1	1375187-1	2-1375055-1		
			Black	1375055-2	1375187-2	2-1375055-2		
			White	1375055-3	1375187-3	2-1375055-3		
			Gray	1375055-4	1375187-4	2-1375055-4		
			Orange	1375055-5	1375187-5	2-1375055-5		
			Blue	1375055-6	1375187-6	2-1375055-6		
			Red	1375055-7	1375187-7	2-1375055-7		
			Yellow	1375055-8	1375187-8	2-1375055-8		
			Green	1375055-9	1375187-9	2-1375055-9		
			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		
			Shielded	180° (Rear) 90° (Side)	Black	1375188-1*	—	—
					Black	1479552-1*	—	—

*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.

SL Series Modular Jack Accessories



- Provide strain relief for terminated cables in the Work Area
- Strain reliefs are for use with unshielded SL Series Modular Jacks only
- 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

Description	Color	Figure	Part Number
Bend-Limiting Strain Relief	Smoked Gray	A	1375200-1
Strain Relief	Clear	B	1375157-1
RJ45 Dust Cover	Black	C	2111285-2

SL Series, Category 6 Modular Couplers

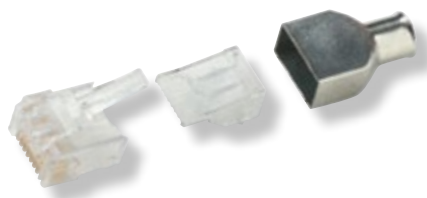


- Compact couplers for two modular plugs
- Snaps into 0.585" x 0.790" cut-outs
- Wired one-to-one

02

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 in Chapter 22
- Modular plug to die set cross reference on page 2 of this chapter

Description	Conductor	Insulation O.D. in (mm)	Cable Jacket O.D. in (mm)	500 per Box	100 per Box	25 per Box
Unshielded or Shielded	Solid	0.035 (0.89) - 0.043 (1.09)	0.20 (5.0) — 0.24 (6.0)	5-1375204-4	5-1375204-3	5-1375204-4
	24 – 23 AWG	0.035 (0.89) - 0.043 (1.09)	0.24 (6.0) — 0.28 (7.0)	5-1479185-4	5-1479185-3	5-1479185-4
	Stranded	0.035 (0.89) - 0.043 (1.09)	0.20 (5.0) — 0.24 (6.0)	5-1375202-4	5-1375202-3	5-1375202-4
	26 – 24 AWG	0.035 (0.89) - 0.043 (1.09)	0.24 (6.0) — 0.28 (7.0)	5-1479184-4	5-1479184-3	5-1479184-4

Modular Plug Boots for Category 6 Modular Plugs

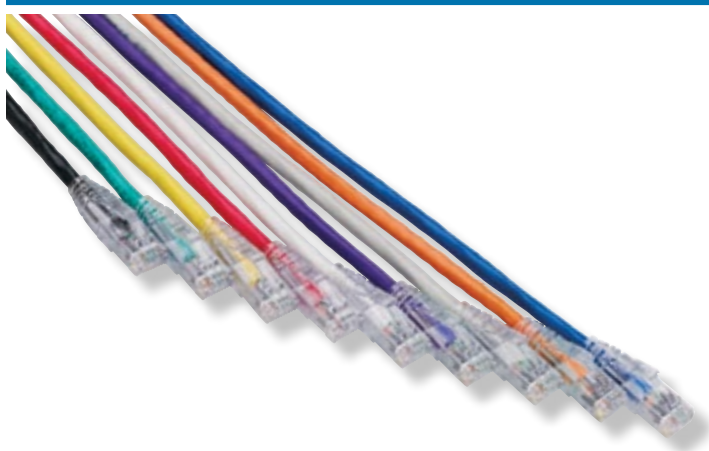


- For use with Category 6, 8-Position modular plugs
- Accept cables with diameters as listed
- Colors in table are approximate

Color	Maximum Cable O.D. 6 mm [0.24 in]		Maximum Cable O.D. 6.5 mm [0.26 in]	
	2400 Per Box	100 Per Box	2400 Per Box	100 Per Box
White	2-737893-1	9-737893-1	2-336513-1	9-336513-1
Gray	2-737893-2	9-737893-2	2-336513-2	9-336513-2
Red	2-737893-3	9-737893-3	2-336513-3	9-336513-3
Blue	2-737893-4	9-737893-4	2-336513-4	9-336513-4
Green	2-737893-5	9-737893-5	2-336513-5	9-336513-5
Yellow	2-737893-6	9-737893-6	2-336513-6	9-336513-6
Black	2-737893-7	9-737893-7	2-336513-7	9-336513-7
Orange	—	—	2-336513-8	9-336513-8
Violet	—	—	2-336513-9	9-336513-9

Category 6 Slim Line Patch Cable Assemblies

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- Slim plug and boot design provide additional space between adjacent plugs
- Meets or exceeds Category 6 performance standards
- 4-Pair stranded Unshielded 24 AWG conductors
- Non-plenum (CM rated)
- Universal wiring (T568A/T568B)
- Lead-Free (no heavy metals)
- Colors in table are approximate

Length	Black	Gray	Blue	Green	Red	White	Yellow	Orange	Violet
2 ft [0.61 m]	1933116-2	1933117-2	1933118-2	1933119-2	1933120-2	1933121-2	1933122-2	1933123-2	1933124-2
3 ft [0.91 m]	1933116-3	1933117-3	1933118-3	1933119-3	1933120-3	1933121-3	1933122-3	1933123-3	1933124-3
4 ft [1.22 m]	1933116-4	1933117-4	1933118-4	1933119-4	1933120-4	1933121-4	1933122-4	1933123-4	1933124-4
5 ft [1.52 m]	1933116-5	1933117-5	1933118-5	1933119-5	1933120-5	1933121-5	1933122-5	1933123-5	1933124-5
6 ft [1.83 m]	1933116-6	1933117-6	1933118-6	1933119-6	1933120-6	1933121-6	1933122-6	1933123-6	1933124-6
7 ft [2.13 m]	1933116-7	1933117-7	1933118-7	1933119-7	1933120-7	1933121-7	1933122-7	1933123-7	1933124-7
8 ft [2.44 m]	1933116-8	1933117-8	1933118-8	1933119-8	1933120-8	1933121-8	1933122-8	1933123-8	1933124-8
9 ft [2.74 m]	1933116-9	1933117-9	1933118-9	1933119-9	1933120-9	1933121-9	1933122-9	1933123-9	1933124-9
10 ft [3.05 m]	1-1933116-0	1-1933117-0	1-1933118-0	1-1933119-0	1-1933120-0	1-1933121-0	1-1933122-0	1-1933123-0	1-1933124-0
12 ft [3.66 m]	1-1933116-2	1-1933117-2	1-1933118-2	1-1933119-2	1-1933120-2	1-1933121-2	1-1933122-2	1-1933123-2	1-1933124-2
14 ft [4.27 m]	1-1933116-4	1-1933117-4	1-1933118-4	1-1933119-4	1-1933120-4	1-1933121-4	1-1933122-4	1-1933123-4	1-1933124-4
15 ft [4.57 m]	1-1933116-5	1-1933117-5	1-1933118-5	1-1933119-5	1-1933120-5	1-1933121-5	1-1933122-5	1-1933123-5	1-1933124-5
16 ft [4.88 m]	1-1933116-6	1-1933117-6	1-1933118-6	1-1933119-6	1-1933120-6	1-1933121-6	1-1933122-6	1-1933123-6	1-1933124-6
20 ft [6.10 m]	2-1933116-0	2-1933117-0	2-1933118-0	2-1933119-0	2-1933120-0	2-1933121-0	2-1933122-0	2-1933123-0	2-1933124-0
25 ft [7.62 m]	2-1933116-5	2-1933117-5	2-1933118-5	2-1933119-5	2-1933120-5	2-1933121-5	2-1933122-5	2-1933123-5	2-1933124-5
30 ft [9.14 m]	3-1933116-0	3-1933117-0	3-1933118-0	3-1933119-0	3-1933120-0	3-1933121-0	3-1933122-0	3-1933123-0	3-1933124-0
40 ft [12.19 m]	4-1933116-0	4-1933117-0	4-1933118-0	4-1933119-0	4-1933120-0	4-1933121-0	4-1933122-0	4-1933123-0	4-1933124-0
50 ft [15.24 m]	5-1933116-0	5-1933117-0	5-1933118-0	5-1933119-0	5-1933120-0	5-1933121-0	5-1933122-0	5-1933123-0	5-1933124-0

Category 6 Ethernet Crossover Cable Assemblies

- Category 6 crossover cables are compatible with 10/100BASE-T, as well as IEEE 802.3 1000BASE-T
- For other lengths and wiring diagrams, see Customer Drawing
- Lead-Free (no heavy metals)
- Features black plug boots and red cable

Description	Cable/Boot Color	Length	Part Number
Category 6 Ethernet Crossover Cable Assemblies	Red/Black	3 ft [0.91 m]	1499150-3
		5 ft [1.52 m]	1499150-5
		7 ft [2.13 m]	1499150-7
		10 ft [3.05 m]	1-1499150-0
		12 ft [3.66 m]	1-1499150-2
		15 ft [4.57 m]	1-1499150-5
		25 ft [7.62 m]	2-1499150-5

610XC Category 6 Patch Cable Assemblies



610XC Plug



RJ45 Plug

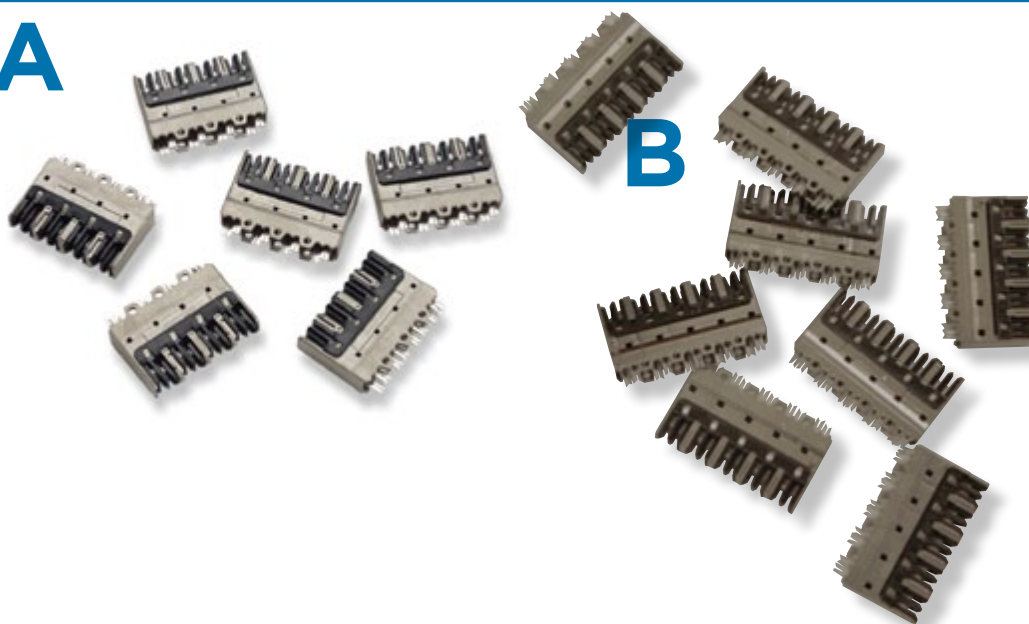
- Meets or exceeds Category 6 performance requirements
- Stranded unshielded, 24 AWG conductors, pair counts as listed
- Non-Plenum (CM rated)

End A	End B	Pair Count/Wiring	Part Number				
			2 ft [0.61 m]	4 ft [1.22 m]	6 ft [1.83 m]	8 ft [2.44 m]	10 ft [3.05 m]
610XC	610XC	1-Pair	1479265-2	1479265-4	1479265-6	1479265-8	1-1479265-0
		2-Pair	1479266-2	1479266-4	1479266-6	1479266-8	1-1479266-0
		4-Pair	1479267-2	1479267-4	1479267-6	1479267-8	1-1479267-0
	RJ45	4-Pair, T568A	1499414-2	1499414-4	1499414-6	1499414-8	1-1499414-0
		4-Pair, T568B	1499413-2	1499413-4	1499413-6	1499413-8	1-1499413-0

610XC Connecting Blocks

A

B



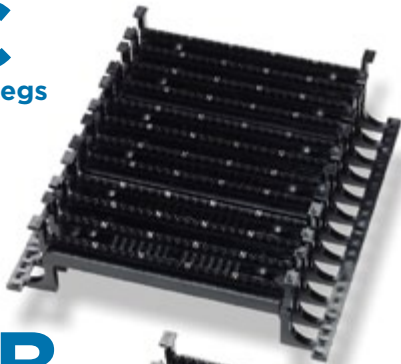
- Utilize shielded crosstalk barrier technology for superior performance
- Utilize double-ended insulation displacement contact (IDC) that terminates 24 – 22 AWG solid or stranded conductors with a maximum O.D. of 0.063 inches
- Available in 4 and 5-pair sizes with the appropriate color coding

Description	Pair Count	Figure	Part Number
610XC Connecting Blocks	4-Pair	A	1479245-1
	5-Pair	B	1479246-1

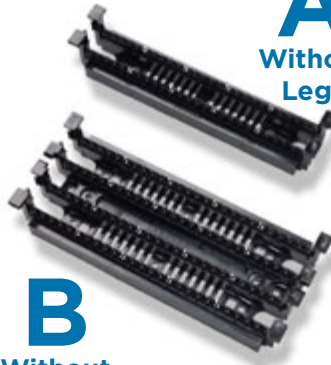
610XC Wiring Blocks

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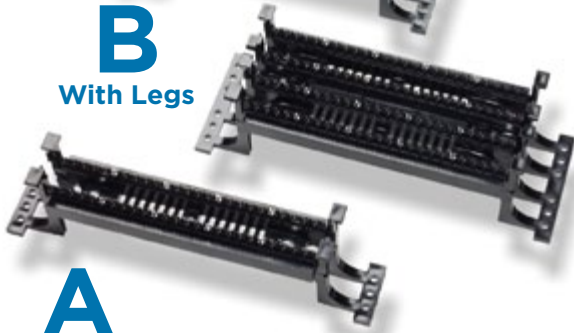
C
With Legs



A
Without Legs



B
With Legs



B
Without Legs

A
With Legs

Description	Pair Count	Figure	Part Number	
			With Legs	Without Legs
610XC Wiring Blocks	50-Pair	A	1479247-1	1479250-1
	100-Pair	B	1479248-1	1479251-1
	300-Pair	C	1479249-1	–

- Accepts 24 – 22 AWG conductors
- Available with and without legs
- Wiring blocks with legs are available in 50, 100, and 300-pair configurations
- Wiring blocks without legs are available in 50 and 100-pair configurations
- Labels and label covers are available, see Chapter 17

610XC Category 6 Cross-Connect Kits

A



- Kits include wiring blocks with legs, connecting blocks, designation strips, and white labels marked for the pair counts listed
- Replacement labels and label covers are available, see Chapter 17

Description	Pair Count	Figure	Part Number	
			With 4-Pair Connecting Blocks	With 5-Pair Connecting Blocks
610XC Category 6 Cross-Connect Kits	50-Pair		1479252-1	1479253-1
	100-Pair	A	1479254-1	1479255-1
	300-Pair		1479256-1	1479257-1

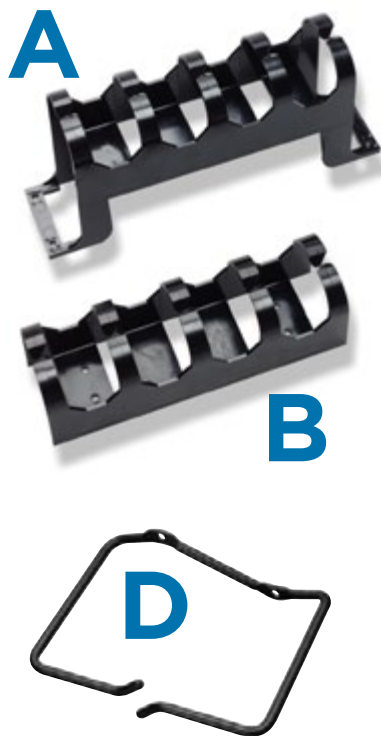
610XC Category 6 Cross-Connect Distribution Frame Kits



- Reduces time needed for planning and installing a cross-connect on a backboard
- Kits include metal back frame, wiring blocks without legs, connecting blocks, cable management troughs without legs, designation strips, white labels marked for the pair counts listed, ground strap and appropriate hardware
- Quick and easy installation
- Available in 300 and 900-pair configurations with either 4 or 5-pair connecting blocks
- Replacement labels and label covers are available, see Chapter 17

Description	Pair Count	Figure	Part Number	
			With 4-Pair Connecting Blocks	With 5-Pair Connecting Blocks
610XC Cross-Connect Distribution Frame Kits	300-Pair	A	1479258-1	1479259-1
	900-Pair		1479260-1	1479261-1

610XC Cable Management

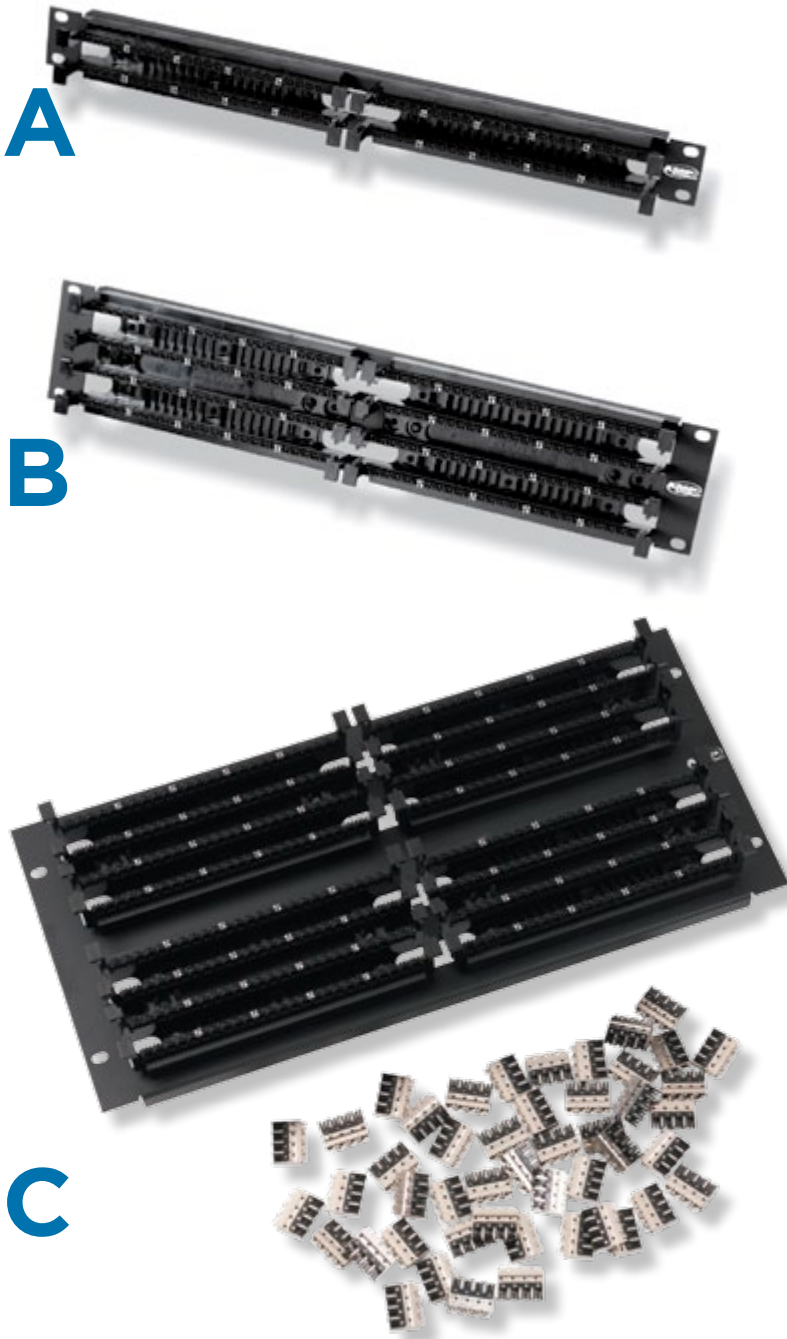


- Cable management frames and rings provide high capacity storage of patch cables and jumper wire
- Cable management trough provides horizontal management and organization of patch cables and jumper wire
- Troughs are available with or without legs
- Suitable for mounting directly to plywood backboard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

Description	Color		Figure	Part Number
Cable Management Trough	Black	With Legs	A	569389-3
		Without Legs	B	569597-3
Vertical Cable Management Frame	Black	300-Pair	C	569851-3
		900-Pair		569852-3
Cable Management Rings	Black	5.7 inches	D	569431-1
		8.5 inches		569599-1

610XC Rack Mount Cross-Connect Panel Kits

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- For mounting 610XC hardware on a 19-inch rack
- Kits include wiring block panels, 4-Pair connecting blocks, designation strips and white labels for the pair counts listed
- Rack mount cable management panels provide horizontal management and organization of patch cables and jumper wire
- Replacement labels and label covers are available, see Chapter 17

Description	Pair Count	Connecting Blocks	Width	Height	Figure	Part Number
610XC Cross-Connect Rack Mount Panel Kits	100-Pair	4-Pair	19 in	1U [1.75 in]	A	1479622-1
	200-Pair	4-Pair	19 in	2U [3.50 in]	B	1479623-1
	400-pair	4-Pair	19 in	5U [8.75 in]	C	1479624-1
610XC Rack Mount Cable Management Trough Panel			19 in	2U [3.50 in]		406641-2

Category 6 SL Series Patch Panels

A



Back of Interface housing



Front of Interface housing

- Meets or exceeds TIA and ISO Category 6 component performance requirements
- Angled panels allow elimination of horizontal cable management for higher rack densities and ease of cable dress
- Ports may be individually replaced
- All panels are packaged unloaded with jacks bagged separately for termination with SL Series Jack Termination Tool, see Chapter 22
Universal wiring – may be terminated to T568A or T568B
- Replacement labels and clear label covers in Chapter 17
- 12-Port Mini Patch Panels mount vertically on 89D bracket (included)
- 48-port, 1U 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)
- For multimedia (no included connectivity) patch panels, see Chapter 15
- Accommodates icons (sold separately, see Chapter 17)

B

Angled



C

Standard



C

Angled



D

Standard



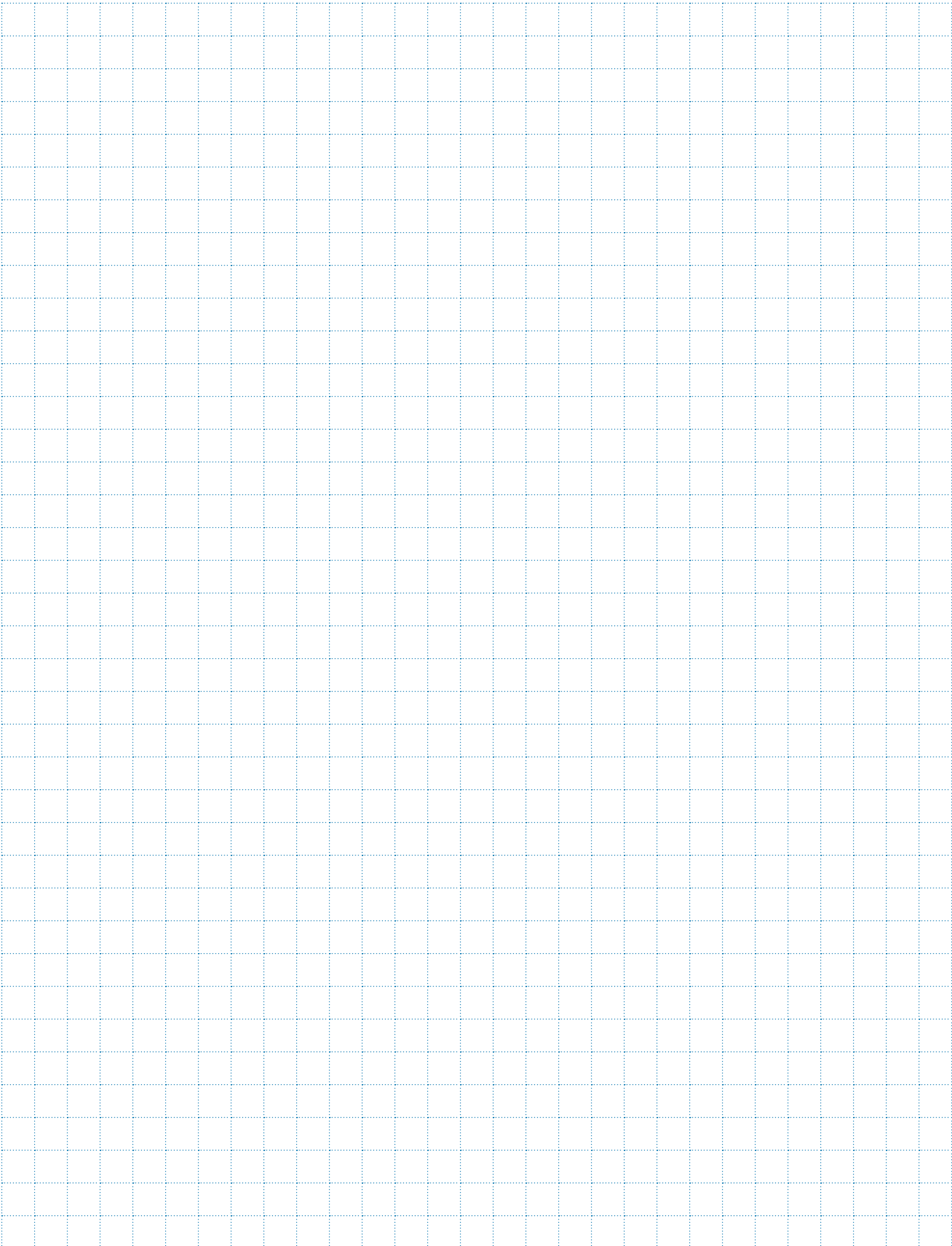
D

Angled



Port Count	Rack Mount Units	Height	Width	Figure	Standard	Angled
12	–	10.00 in [25.40 cm]	2.3 in [5.84 cm]	A	1375013-2	–
24	1	1.75 in [4.44 cm]	19.0 in [48.26 cm]	B	1375014-2	1499600-2
48	1	1.75 in [cm]	19.0 in [48.26 cm]	C	1933458-1*	1933658-1*
	2	3.50 in [8.89 cm]	19.0 in [48.26 cm]	D	1375015-2	1499601-2
96	4	7.00 in [17.78 cm]	19.0 in [48.26 cm]		1375016-2	–

*NOTE: 1U 48-port panel does not accept standard SL Series jacks



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Kazasthan	7-327-244-5875	Ukraine	380-44-206-226
Latvia	370-5-213-14-02	United Kingdom	44-208-420-8140
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