

Copper Cabling Systems

North America

Innovative Connectivity Solutions for Maximum Performance

Copper Cabling Systems

Panduit offers a range of copper cabling solutions to fit the needs of all types of applications. From trading floors to operating rooms, classrooms to store fronts, Panduit's copper systems provide the infrastructure needed to support networks of all shapes and sizes. At Panduit, quality is our number one concern, resulting in products that are engineered and produced with reliability and durability in mind.



Innovations in Structured Cabling

- First tool-less jack for ease of installation and better performance
- 500+ patents on network infrastructure
- Invented cable management to improve organization, air flow, and aesthetics
- Pioneered 28 AWG cabling to help reduce footprint
- Over 250 million jacks installed globally

Applications Supported by Copper Cabling

- Power over Ethernet
- Wireless connectivity
- Intelligent lighting
- Security cameras
- Audio/visual, including HDBaseT*
- Building automation systems

*HDBaseT is a registered trademark of Valens Semiconductor Ltd.





Mini-Com[®] Cabling System

For the most demanding applications, the Mini-Com Copper Cabling System is designed to provide the most innovative features and the lowest cost of ownership over the life of your network. We strive to provide the perfect solution for any application, which means offering custom cable assemblies, a wide range of colors and lengths, and a large selection of patch panel and faceplate types to suit your needs. If network performance is critical to helping you achieve your business goals, choose the Mini-Com Copper Cabling System for unsurpassed performance, quality, and innovation to accommodate the latest technologies. Receive a 25-year system warranty when using an end-to-end Mini-Com Solution.

NetKey® Cabling System

The Keystone Copper Cabling System delivers high quality and trusted performance with an industrycompatible footprint for use with any keystone opening. Designed to support the network demands of our daily lives, the NetKey Product Family is ideal for the classroom, conference room, office building, or doctor's office. With component-compliant jacks and the same quality measures as our Mini-Com Product Line, NetKey Products provide the performance and durability you need with the flexibility to integrate with specialty applications such as audio/visual systems, office furniture with integrated connectivity, designer faceplates, and brownfield retrofits. Receive a 15-year system warranty when using an end-to-end NetKey Solution.



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Mini-Com[®] Copper Cabling System – Unshielded





• • The RapidID[™] Network Mapping System automates labor-intensive and error-prone cable documentation, resulting in a faster, easier way to place and trace cables and patch cords. It is a practical alternative to traditional manual approaches that is ideally suited for data center audits, enterprise environments, and remote locations.



Mini-Com[®] Copper Cabling System – Shielded

• Highest density shielded Category 6A solution, 48 ports in 1 RU

• Third-party tested

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 Simplified grounding with Shielded Jack Modules

• Category 6A 28 AWG shielded patch cords

• 2-piece construction terminates with familiar forward-motion termination technology

 Proven electrical performance

 Easily connect cabling directly to end device

> Angled wire cap makes it easy to install in tight spaces while maintaining bend radius **o**

• Tool-less termination maintains conductor twist to the point of termination, for reliable performance and provides the highest performing and fastest termination

 Connectivity rated to 2500 mating cycles with integrated arc suppression for longest lasting performance, even running PoE++

 Optional shutter feature protects connections from dust and debris

Grounding Made Easy



• Integrated grounding and bonding provides an easy to install shielded cabling system

NetKey® Keystone Copper Cabling System

• Third-party tested, component-compliant connectivity for reliable performance

Familiar 110-punchdown termination



• 100% production tested for quality performance

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• Keystone footprint for compatibility with any keystone opening







Industry-Leading Category 6A Solution

Vari-MaTriX Technology

- Discontinuous metallic foil used on cable and connectors
- Offers optimal PoE performance
- Benefits of unshielded and shielded combined
- The smallest diameter cable (0.23 inches) for ideal fill ratio
- Variable-length foil delivers optimal alien crosstalk and immunity to external noise



Industry's Leading Headroom Performance

- Installed performance using real world testers
- True worst-case scenarios, with 48 1 RU panels and 6 around 1 for 100 meters
- Minimum channel length of 5 meters



Designed for Next Generation Applications

- 100BASE-T, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, 10GBASE-T
- Wireless access points 802.11ax
- Power over Ethernet 802.3af, 802.3at, and 802.3bt
- HDBaseT*

*HDBaseT is a registered trademark of Valens Semiconductor Ltd.

Designed for Next Generation Power over Ethernet

The unique Panduit[®] Category 6A Vari-MaTriX HD system provides the industry's best cabling solution to support the PoE++ 802.3bt standard for power levels up to 100 watts.

Cable

- Vari-MaTriX foil provides optimal heat dissipation
- Highest operating temperature 105° C
- Largest bundle sizes
- Longest allowed cable runs in hotter temperatures
- LP ratings of 0.7A (plenum)

Connectors

- Integrated arc suppression technology
- Rated to 2,500 live PoE++ connections
- Highest operating temperature 75° C
- Deliver PoE++ over 24 AWG to 28 AWG patch cords

Highest Quality Category 6 Solutions

The Highest Quality Category 6 Offering

- Mini-Com[®] and NetKey[®] Products built to the same quality standards
- All products held to the same stringent quality standards
- Jacks, patch cords, and cable are component compliant
- Supports PoE, PoE+, and PoE++
- Robust construction

Enhanced Category 6 System

Keystone Category 6 System

Advanced TG-style data communications termination

- Reduced installation time
- Minimizes untwist for highest performance
- Easily reterminated

Advanced cable technology with 650 MHz cable bandwidth

Industry leading Category 6 headroom

- Extra margin protects cable from installation and usage
- Supports 10GBASE-T over limited distances
- Minimum channel length of 5 meters
- Channel performance guaranteed with CJ688TG^ jack and PUP/PUR6004 cable

Keystone footprint for interoperability with industry faceplates and panels

Reliable punchdown terminations

Quality cable technology with 550 MHz cable bandwidth

Superior Category 6 headroom

- Protects from standard usage and installation
- Minimum channel length of 9 meters
- Channel performance guaranteed with NK688M^ jack and PUP/PUR6C04 cable

 $^{-}$ = Color code: IW = Off White, EI = Electric Ivory, IG = International Gray, BL = Black, BU = Blue, GR = Green, RD = Red, OR = Orange, VL = Violet, YL = Yellow, WH = White



Note: Colors shown may differ slightly from actual jack colors.

Mini-Com[®] Unshielded System Components



Mini-Com Jack Modules	Category 5e	Category 6	Category 6A
Standard Jack Modules	CJ5E88TG^	CJ688TG^	CJ6X88TG^
Shuttered Jack Modules	CJH5E88TG^	CJH688TG^	CJH6X88TG^
45° Angled Jack Modules	-	-	CJ#6X88TG^

Bulk Packs: Standard jack modules available in bulk packs, which reduce single-use plastics.

Add -24 after part number for packs of 24.

Add -C after part number for packs of 100.

= LR for left/right angle; UD for Up/Down angle.

Angled wire cap only: Change an existing Standard or Shuttered jack module into a 45° Angle jack module by ordering only the angled wire cap. Left/Right cap order CJLRCAPBU-X for Cat 6A or CJLRCAPIW-X for Cat 6. Up/Down cap order CJUDCAPBU-X for Cat 6A or CJUDCAPIW-X for Cat 6.

 $^{\circ}$ = Color code: IW = Off White, EI = Electric Ivory, IG = International Gray, BL = Black, BU = Blue, GR = Green, RD = Red, OR = Orange, VL = Violet, YL = Yellow, WH = White



Note: Colors shown may differ slightly from actual jack colors.

Copper Cabling System Ordering Guide



Field Terminable Plugs	Straight	Angled
Modular Plug (Compatible with Category 5e, 6 and 6A)	FP6X88MTG	FPUD6X88MTG

Punchdown Patch Panels	Category 5e	Category 6	Category 6A
24-Port Flat	DP245E88TGY	DP24688TGY	DP246X88TGY
24-Port Angled	DPA245E88TGY	DPA24688TGY	DPA246X88TGY
48-Port Flat	DP485E88TGY	DP48688TGY	DP486X88TGY
48-Port Angled	DPA485E88TGY	DPA48688TGY	DPA486X88TGY



Patch Cords	Category 5e	Category 6	Category 6A
Standard Patch Cords	UTPCH*^Y	UTPSP*^Y	UTP6AX*^
28 AWG Patch Cords	UTP28CH*^	UTP28SP*^	UTP28X*^
* = Length in feet			

 $^{-}$ = Color code: Off White (default, no designation needed), BL = Black, BU = Blue, GR = Green, RD = Red, OR = Orange, VL = Violet, YL = Yellow, GY = Gray



Note: Colors shown may differ slightly from actual cable colors.

Mini-Com[®] Unshielded System Components



Cable	Category 5e	Category 6	Category 6A
Plenum Copper Cable	PUP5c04BU-F	PUP6004BU-WLP, PUP6004BU-WLPZ, PUP6c04BU-W, PUP6c04BU-WZ, or PUP6c04BU-WLPZ	PUP6AHD04BU-G
Riser Copper Cable	PUR5c04BU-F	PUR6004BU-W or PUR6C04BU-U	PUR6AHD04BU-G

Contact Panduit customer service for more color options.



	Mini-Com Modular Patch Panels	Flat	Angled
7	Flush Mount Modular Patch Panels, 24-port, 1 RU	CPP24FMWBLY	CPPA24FMWBLY
	Flush Mount Modular Patch Panels, 48-port, 2 RU	CPP48FMWBLY	CPPA48FMWBLY
	High Density Flush Mount Modular Panels, 48-port, 1 RU	CPP48HDWBLY	CPPA48HDWBLY



Mini-Com Faceplates	1-Port	2-Port	4-Port
Furniture Faceplate without Labels	-	CFFPA2BL	CFFP4BL
Furniture Faceplate with Labels	_	CFFPL2BL	CFFPL4BL
Furniture Faceplate, Herman Miller	-	-	CFFPHM4BL
Classic Faceplate Single Gang without Labels	CFP1^	CFP2 [^]	CFP4^
Classic Faceplate Single Gang with Labels	CFPL1^Y	CFPL2^Y	CFPL4^Y

^ = Colors available: El (Electric Ivory), IW (Off White), WH (White)

Mini-Com[®] Shielded System Components



Mini-Com Jack Modules	Category 5e	Category 6	Category 6A
Standard Jack Modules	CJS5E88TGY	CJS688TG^Y	CJS6X88TG^Y
Shuttered Jack Modules	CJSH5E88TGY	CJSH688TG^Y	CJSH6X88TG^Y
Angled Jack Modules	-	-	CJS#6X88TGY

Bulk Packs: Standard jack modules available in bulk packs, which reduce single-use plastics.

Add -24 after part number for packs of 24.

Add -C after part number for packs of 100.

= LR for left/right angle; UD for Up/Down angle

Angled wire cap only: Change an existing Standard or Shuttered jack module into a 45° Angle jack module by ordering only the angled wire cap. Left/Right cap order CJSLRCAPBU-X for Cat 6A or CJSLRCAPIW-X for Cat 6. Up/Down cap order CJSUDCAPBU-X for Cat 6A or CJSUDCAPIW-X for Cat 6.

^ = Color code: No designation = Black, BU = Blue, GR = Green, RD = Red, VL = Violet, YL = Yellow



Note: Colors shown may differ slightly from actual jack colors.



Field Terminable Plugs	Straight
Modular Plug	FPS6X88MTG
Compatible with Category 5e, 6 and 6A.	



Patch Cords	Category 6/6A
Category 6A Standard Patch Cords (26 AWG)	STP6X*M^
Category 6A 28 AWG Patch Cords	STP28X*M^

* = Length in meters

^ = Color code: IG = International Gray, BL = Black, BU = Blue, GR = Green, RD = Red, OR = Orange, VL = Violet, YL = Yellow



Notes: Colors shown may differ slightly from actual cable colors.



Cable	Category 6	Category 6A
Plenum Copper Cable,F/UTP	PFR6c04BU-UG	PFP6X04BU-UG
Riser Copper Cable, F/UTP	PFP6c04BU-UG	PFR6X04BU-CG

Contact Panduit customer service for more color options.



Mini-Com Shielded Patch Panels	Flat	Angled
Flush Mount Modular Patch Panels, 24-port, 1 RU	CP24BLY	CPA24BLY
Flush Mount Modular Patch Panels, 48-port, 2 RU	CP48BLY	CPA48BLY
High Density Flush Mount Modular Panels, 48-port, 1 RU	CP48HDBL	CPA48HDBL

NetKey® System Components

NetKey Punchdown Patch Panels

24-Port Flat

48-Port Flat



Keystone Jack ModulesCategory 5eCategory 6Category 6ANetKey Punchdown Jack ModulesNKP5E88M^NK688M^NK6X88M^Bulk Packs: Jack modules available in bulk packs, which reduce single-use plastics.

Add -Q to end of part number for box of 25 jacks.

^ = Color code: IW = Off White, EI = Electric Ivory, IG = International Gray, BL = Black, BU = Blue, GR = Green, RD = Red, OR = Orange, VL = Violet, YL = Yellow, WH = White



Note: Colors shown may differ slightly from actual jack colors.



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NetKey Patch Cords	Category 5e	Category 6	Category 6A
Patch Cords*	NK5EPC*^	NK6PC*^	NK6APC*BU
* - Length in feet			

Category 6

NK6PPG24Y

NK6PPG48Y

Category 6A NK6XPPG24Y

NK6XPPG48Y

^ = Color code: Off White (default, no designation needed), BL = Black, BU = Blue, GR = Green, RD = Red, YL = Yellow

Category 5e

NK5EPPG24Y

NK5EPPG48Y



Note: Colors shown may differ slightly from actual cable colors.



Copper Cable	Category 5e	Category 6	Category 6A
Panduit Plenum Copper Cable	PUP5c04BU-F	PUP6C04BU-WZ PUP6C04BU-W	PUP6XHD04BU-G
Prysmian Plenum Copper Cable	5131278E	7131800	7151849
Panduit Riser Copper Cable	PUR5c04BU-F	PUR6C04BU-U	PUR6AHD04BU-G
Prysmian Riser Copper Cable	5133299E	7133800	7143849

Contact Customer Service for additional colors.



Keystone Modular Patch Panels	24-Port Flat	24-Port Angled	48-Port Flat	48-Port Angled
Flush Mount Modular Patch Panels	NKPP24FMY	NKPPA24FMY	NKPP48FMY	NKPPA48FMY



Keystone Faceplate Frames+	2-Port	4-Port
NetKey Classic Faceplates with Labels	NK2FIWY	NK4FIWY
NetKey Classic Faceplates with No Labels	NK2FNIW	NK4FNIW
NetKey Furniture Faceplate	-	NK4MFBL
NetKey Furniture Faceplate with Labels	-	NK4MFLBL
NetKey Surface Mount Boxes	NK2BXIW-A	NK4BXIW-AY

Colors: Replace IW (Off White) in part number with WH (White) or EI (Electric Ivory)





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