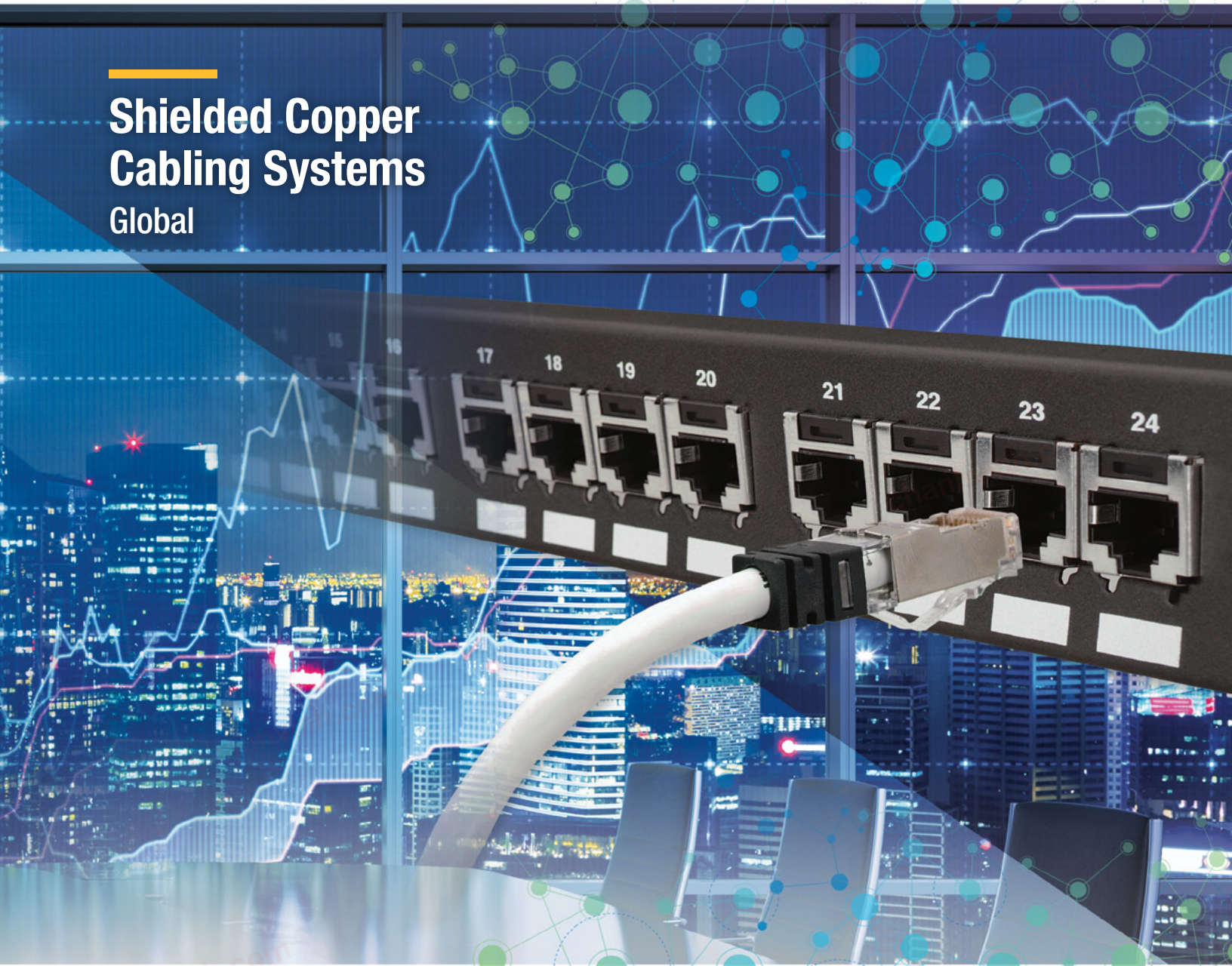
chanhvinh.com

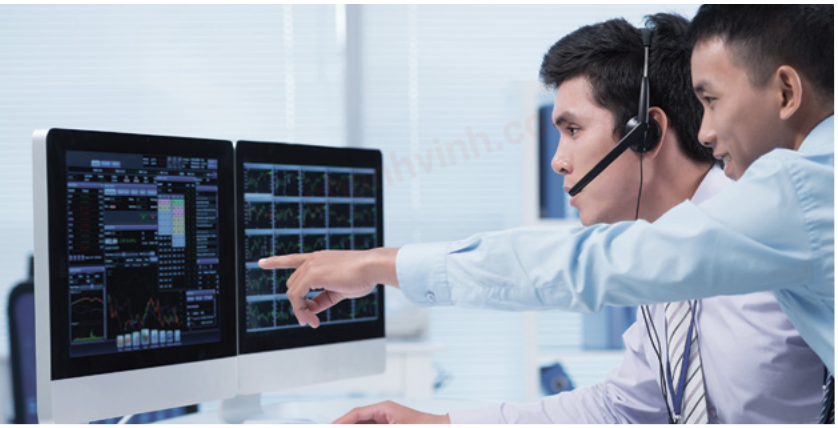
PANDUIT™ infrastructure for a connected world

Shielded Copper Cabling Systems

Global



Innovative Connectivity Solution for Maximum Performance and Security





Financial Institutions

- Supports high performance backbone which enables transfer of real-time financial information through voice, video, and data channels in demanding environments, such as trading floors
- Enables backup of high volume, bandwidth intensive data to meet regulatory requirements, such as the Sarbanes-Oxley Act
- Offers proven security when transmitting data between offices, branches, and remote locations

Government Facilities

- Maintains integrity of sensitive information by reducing possibility of data interception through the minimization of signal emissions
- Protects against Radio Frequency Interference (RFI), which emanates from common devices such as WLANs, cellular phone, TV broadcasting or radios, which cause alien crosstalk
- Improves performance to support higher bandwidth applications, such as radar imaging and GPS mapping

Utilizing Shielded Cabling Systems





Healthcare Centers

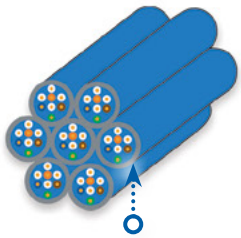
- Protects against forms of Electromagnetic Interference (EMI) generated from healthcare devices, such as imaging, MRI, and telemetry, which can distort patient results
- Enables high bandwidth applications, such as imaging transfer and video conferencing/collaboration

Gaming and Hospitality Industries

- Supports high performance needs of video surveillance and media delivery services
- Maintains highly secure data transmission between casinos, cash cages, and main offices
- Provides EMI immunity and protects data integrity in proximity to electronic gaming equipment

Shielded Copper Cable

- Shielded design provides exceptional performance up to 500 MHz (Category 6A)
- Shielding significantly reduces near-end and far-end alien crosstalk between adjacent cables
- Available in both Low Smoke Zero Halogen (LSZH) or general purpose PVC (CM) cable jackets



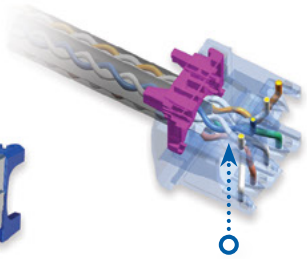
Foil shield in cable prevents unwanted alien crosstalk

Shielded Jack Modules

- Built-in integral shields provide a 360° conductive cover and simplify proper system grounding
- Patented Integrated Flex Technology shortens the tuning length of the jack, optimizing network performance
- Enhanced Giga-TX™ Technology reduces conductor untwists, ensures termination consistency, optimizes performance and lowers cost of installation

Integral shield provides 360° of grounding contact





Pair twists maintained to the IDC

Panduit Innovative Components

Mini-Com™ All Metal Shielded Modular Patch Panels

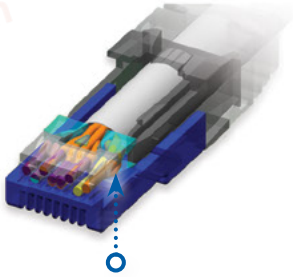
- Modular metal design with integrated shielding allows jacks to easily snap in, providing seamless integration with Panduit StructuredGround™ Grounding System
- Flat and angled versions are utilized for layout flexibility and higher density installations
- Angled patch panels facilitate proper bend radius of each cable as it is routed directly into a vertical cable manager, eliminating the need for horizontal cable managers



Manage high-density network applications in up to one-fourth the area of conventional cable management systems

Shielded Patch Cords

- Choice of 26 AWG stranded cable or 28 AWG reduced cable diameter where space is at a premium
- Overall shield suppress EMI and minimize both NEXT and ANEXT giving substantial performance margins
- Plug is designed to perform in the center of TIA/EIA-568-B.2-1 component range ensuring interoperability and optimum performance



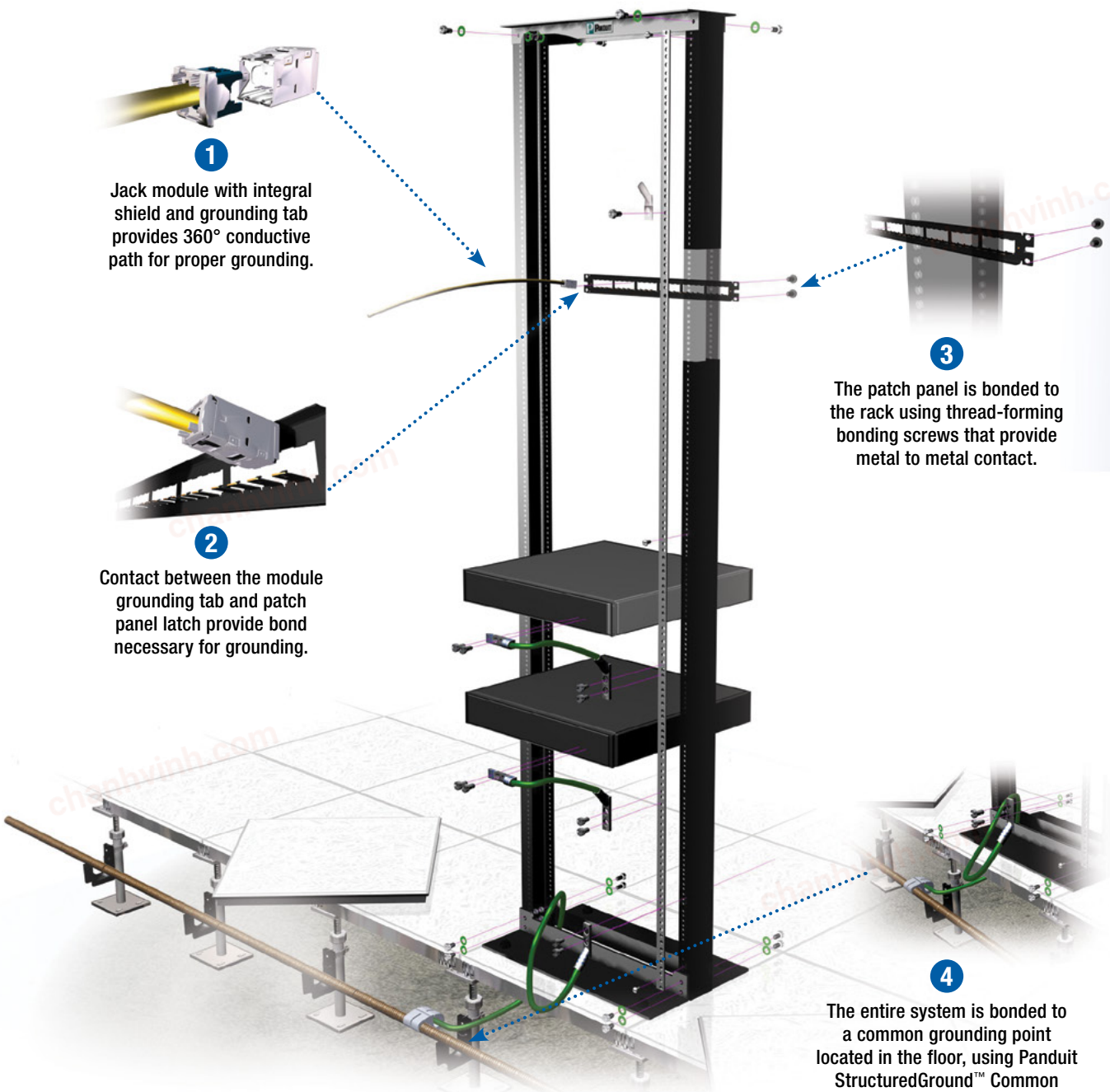
Integral pair manager ensures consistency and high performance

chanhvinh.com

Seamless Integration with Panduit StructuredGround™ Grounding System

A key element of a shielded copper cabling system is proper grounding. To maintain efficient performance and ensure that sensitive electronic equipment is fully protected from potentially damaging events, Panduit has developed a comprehensive grounding and bonding solution for the Shielded Copper Cabling System.

Grounding Made Easy



1. Jack module with integral shield and grounding tab provides 360° conductive path for proper grounding.
2. Contact between the module grounding tab and patch panel latch provide bond necessary for grounding.
3. The patch panel is bonded to the rack using thread-forming bonding screws that provide metal to metal contact.
4. The entire system is bonded to a common grounding point located in the floor, using Panduit StructuredGround™ Common Bonding Network (CBN) Jumper Kit.

chanhvinh.com

The TX6™ 10Gig™ Shielded Copper Cabling System has passed third party performance testing by Intertek/ETL

Electrical Performance

Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of ANSI/TIA-568.2-D and ISO 11801 standards swept up to 500 MHz for supporting 10GBASE-T transmission over twisted-pair cabling systems.

Guaranteed System Performance

Compliance is guaranteed for the following parameters:

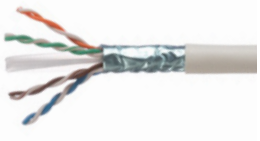
- Power Sum Alien Near-End Crosstalk (PSANEXT)
- Power Sum Alien Attenuation to Crosstalk Ratio at the Far End (PSAACR-F)
- Insertion Loss (IL)
- Return Loss (RL)
- Near-End Crosstalk (NEXT)
- Power Sum Near-End Crosstalk (PSNEXT)
- Equal Level Far End Crosstalk (ELFEXT)
- Power Sum Equal Level Far End Crosstalk (PSELFEXT)

The Panduit Shielded Copper Cabling System delivers certified performance with a 25 year system warranty* so you can specify with confidence a system to meet the demanding network requirements of today and tomorrow.

*To be eligible for the Certification Plus℠ System Warranty, the system must be installed by a Panduit Certified Installer and be registered by Panduit. The Certification Plus℠ System Warranty is subject to various terms, conditions, and limitations. Go to **www.panduit.com/warranty** to review the Certification Plus℠ System Warranty.

Global Shielded Parts

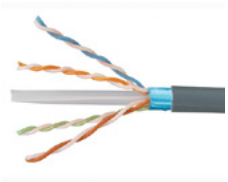
North America





Rating	Description	Color	Length ft. (m)	Category	Flame Rating	EuroClass
F/UTP						
PFP6C04BU-UGZ	Category 6, F/UTP, 23 AWG, CMP	Blue	1000 (305)	Cat 6	CMP	–
PFR6C04BU-UG	Category 6, F/UTP, 23 AWG, CMR				CMR	
PFP6X04BU-UGZ	Category 6A, F/UTP, 23 AWG, CMP			Cat 6A	CMP	
PFR6X04BU-CG	Category 6A, F/UTP, 23 AWG, CMR				CMR	
PFO6X04BL-CEG	Category 6A, F/UTP, 23 AWG, Outdoor	Black			Outdoor	
U/FTP						
PUFP6X04BU-UG	Category 6A, U/FTP, 23 AWG, CMP	Blue	1000 (305)	Cat 6A	CMP	–
PUFR6X04BU-UG	Category 6A, U/FTP, 23 AWG, CMR				CMR	

Europe, Middle East, Africa









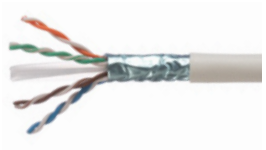


Rating	Description	Color	Length m	Category	Flame Rating	EuroClass
F/UTP						
PFL6004DG-KD	Category 6, F/UTP, 23 AWG, LSZH	Dark Gray	500	Cat 6	LSZH	Eca
PFC6004BU-G	Category 6, F/UTP, 23 AWG, CM	Blue	305		CM	–
PFL6X04BU-CEG	Category 6A, F/UTP, 23 AWG, LSZH			Cat 6A	LSZH	Dca-s2, d2, a1
PFY6X04BU-CED	Category 6A, F/UTP, 23 AWG, LSZH		500			Cca-s1a, d1, a1
PFZ6X04BU-CED	Category 6A, F/UTP, 23 AWG, LSZH-3				LSZH-3	Dca-s2, d2, a1
U/FTP						
PUFL6X04BU-HED	Category 6A, U/FTP, 23 AWG, LSZH	Blue	500	Cat 6A	LSZH	Dca-s2, d2, a1
PUFY6X04BU-HED	Category 6A, U/FTP, 23 AWG, LSZH					Cca-s1a, d1, a1
F/FTP						
PFFL6X04BU-HED	Category 6A, F/FTP, 23 AWG, LSZH	Blue	500	Cat 6A	LSZH	Dca-s2, d2, a1
PFFY6X04BU-HED	Category 6A, F/FTP, 23 AWG, LSZH					Cca-s1a, d1, a1
PFFW6X04WH-KED	Category 6A, F/FTP, 23 AWG, LSZH				LSZH-3	B2ca-s1a, d1, a1
S/FTP						
PSL6X04WH-HED	Category 6A, S/FTP, 23 AWG, LSZH	White	500	Cat 6A	LSZH	Dca-s1a, d1, a1
PSL7004BU-HED	Category 7, S/FTP, 23 AWG, LSZH	Blue		Cat 7		Dca-s1a, d1, a1
PSW7004BU-HED	Category 7, S/FTP, 23 AWG, LSZH					B2ca-s1a, d1, a1
PSO7004BL-KED	Category 7, S/FTP, 23 AWG, LSZH	Black			Outddor	–
PSL7A04BU-HED	Category 7A, S/FTP, 23 AWG, LSZH	Blue		Cat 7A	LSZH	Dca-s1a, d1, a1
SF/UTP						
PSFL6004DG-KD	–	–	–	Cat 6	LSZH	–

chanhvinh.com

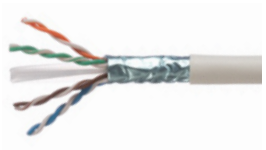
Global Shielded Parts

Asia Pacific



Rating	Description	Color	Length m	Category	Flame Rating	EuroClass
F/UTP						
PFC6004BU-G	Category 6, F/UTP, 23 AWG, CM	Blue	305	Cat 6	CM	–
PFL6004BU-G	Category 6, F/UTP, 23 AWG, LSZH				LSZH	
PFC6X04BU-CEG	Category 6A, F/UTP, 23 AWG, CM			Cat 6A	CM	
PFL6X04BU-CEG	Category 6A, F/UTP, 23 AWG, LSZH				LSZH	Dca-s2, d2, a1
PFZ6X04BU-CEG	Category 6A, F/UTP, 23 AWG, LSZH-3		500		LSZH-3	Dca-s2, d2, a1
PFO6X04BL-CEG	Category 6A, F/UTP, 23 AWG, Outdoor	Black	305		Outdoor	Fca

Latin America



Rating	Description	Color	Length m (ft.)	Category	Flame Rating	EuroClass
F/UTP						
PFC6004BU-G	Category 6, F/UTP, 23 AWG, CM	Blue	305 (1000)	Cat 6	CM	–
PFL6004BU-G	Category 6, F/UTP, 23 AWG, LSZH				LSZH	
PFL6X04BU-CEG	Category 6A, F/UTP, 23 AWG, LSZH			Cat 6A		Dca-s2, d2, a1
PFR6X04BU-CG	Category 6, F/UTP, 23 AWG, CMR				CMR	–
PFZ6X04BU-CEG	Category 6A, F/UTP, 23 AWG, LSZH-3		500 (1640.42)		LSZH-3	Dca-s2, d2, a1
PFC6X04BU-CEG	Category 6A, F/UTP, 23 AWG, CM		305 (1000)		CM	–
PFO6X04BL-CEG	Category 6A, F/UTP, 23 AWG, Outdoor	Black			Outdoor	Fca
U/FTP						
PUFR6X04BU-UG	Category 6A, U/FTP, 23 AWG, CMR	Blue	305 (1000)	Cat 6A	CMR	–
F/FTP						
PFFL6X04BU-CED	Category 6A, F/FTP, 23 AWG, LSZH	Blue	500 (1640.42)	Cat 6A	LSZH	Dca-s2, d2, a1
S/FTP						
PSL7004BU-CED	Category 7, S/FTP, 23 AWG, LSZH	Blue	500 (1640.42)	Cat 7	LSZH	Dca-s1a, d1, a1

chanhvinh.com

Shielded Copper Cabling System

Shielded Jack Modules



CJS6X88TGY



CJSH6X88TGY

Part Number	Description	Color	No. of Module Spaces	Std. Pkg. Qty.	Std. Ctn. Qty.
CJS6X88TGY*	Category 6A RJ45 shielded Mini-Com™ Jack	Black	1	1	50
CJS688TGY*	Category 6 RJ45 shielded Mini-Com™ Jack				
CJSH6X88TGY	Category 6A shuttered RJ45 shielded Mini-Com™ Jack				
CJSH688TGY	Category 6 shuttered RJ45 shielded Mini-Com™ Jack				

*Shielded jack modules are also available in bulk packs of 24 or 100. Add -24 suffix for packs of 24. Add -C for packs of 100. For colors other than black, visit **www.panduit.com**.

Shielded Patch Cords



PANDUIT RAPIDID enabled

Part Number	Description	Color‡	Length* (m)	Std. Pkg. Qty.	Std. Ctn. Qty.
Category 6A (Also suitable for Category 6 applications)					
STP6X1MBU	Category 6A 26 AWG S/FTP patch cord, CM/LSZH	Blue.	1	1	10
STP6X1MIG		Intl. Gray			
STP6X2MBU		Blue	2		
STP6X2MIG		Intl. Gray			
STP6X3MBU		Blue	3		
STP6X3MIG		Intl. Gray			
Category 6A 28 AWG (Also suitable for Category 6 applications)					
STP28X1MBU	Category 6A 28 AWG F/UTP patch cord, CM/LSZH	Blue	1	1	10
STP28X1MIG		Intl. Gray			
STP28X2MBU		Blue	2		
STP28X2MIG		Intl. Gray			
STP28X3MBU		Blue	3		
STP28X3MIG		Intl. Gray			

*For additional lengths 1 to 10 metres (increments of 1 metre) and 10 to 40 metres (increments of 5 metres) change the length designation in the part number to the desired length.

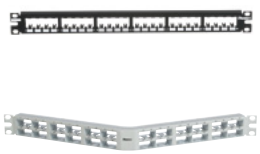
‡For standard colors other than IG (International Gray), substitute suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet). For example, the part number for a blue 15 metre cord is STP6X15MBU.

NOTE: The electrical characteristics of 28 AWG patch cords differ from standard patch cords.
A de-rating of 1.9 must be applied to determine the allowable length in a channel. Please refer to Installation Guideline PN562D OR contact your Panduit Technical Systems Engineer.

chanhvinh.com

Shielded Copper Cabling System

Mini-Com™ Shielded and All Metal Modular Patch Panels



Part Numbers	No. of Rack Units	Style	Identification	Ports	Color
CP24BLY	1	Flat	Adhesive	24	Black*
CPA24BLY		Angled			
CP48BLY	2	Flat		48	
CPA48BLY		Angled			
CP48HDBL	1	Flat			
CPA48HDBL		Angled			
CP24WSBLY		Flat		24	Black

*Also available in White.

Labeling



Part Number	Description
MP300	PXE™ MP300 Mobile Label Printer
MP300-ACS	PXE™ MP300-ACS MP Printer Accessory, AC Power Adaptor for MP300

Part Number	MP Cassette Description	Qty of labels per cassette	Width In. (mm)	Length In. (mm)	Color
C261X035Y1M	Component Label, Non-Adhesive Polyester	100	2.61 (66.29)	.35 (8.89)	Black on White
S100X150VAM	Turn-Tell Self-Laminating Label, Vinyl	175	1.0 (25.4)	1.5 (38.1)	
R100X150V1M		100			

Part Number	MP Cassette Description	Width In. (mm)	Length Ft. (m)	Color
T024X000BPM-BK	PXE™ Cassette, Continuous Tape, Polyester	0.229 (5.82)	30 (9.1)	Black on White

StructuredGround™ Grounding System

- The only solution engineered to meet and exceed TIA-942 “Telecommunications Infrastructure Standard for Data Centers”
- Flexible design works with new and existing racks and cabinets that meet EIA-310-D
- Premium components are kitted to provide easy selection and installation

Bonding Screws and Cage Nuts



Part Number	Description	Std. Pkg. Qty.
RGTBSG-C	Green thread-forming bonding screw, #12-24 x 1/2"	100
RGTBSM6G-C	Green thread-forming bonding screw, M6 x 15mm	100
CNBK	Green bonding #12-24 cage nuts and bonding screws	50

Common Bonding Network (CBN) Jumper Kit



Part Number	Description	Std. Pkg. Qty.
RGCBNJ660P22	Jumper kit, 1.5m long 16mm² green/yellow insulated cable pre-terminated with two hole lug. Includes copper compression tap	1

For details on the complete offering of StructuredGround™ Grounding System, refer to **www.panduit.com/dcgrounding**.

chanhvinh.com



PANDUIT™

Panduit Corp.
World Headquarters
Tinley Park, IL 60487

800.777.3300

www.panduit.com

All trademarks, service marks, trade names, product names, and logos appearing in this document are the property of their respective owners.

©2024 Panduit Corp. ALL RIGHTS RESERVED. COSG28-SA-ENG 3/2024