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# **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

### **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<sup>™</sup> Technology reduces conductor untwists, ensures termination consistency, optimizes performance and lowers cost of installation

# **Panduit Innovative Components**

# Mini-Com<sup>™</sup> All Metal Shielded Modular Patch Panels

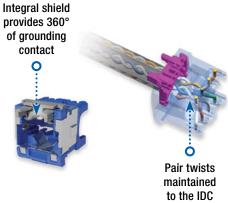
- Modular metal design with integrated shielding allows jacks to easily snap in, providing seamless integration with Panduit StructuredGround<sup>™</sup> Grounding System
- Flat and angled versions are utilized for layout flexibility and higher density installations
- Angled patch panels facilitate proper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

### **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

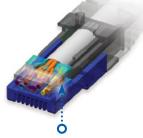


Foil shield in cable prevents unwanted alien crosstalk





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

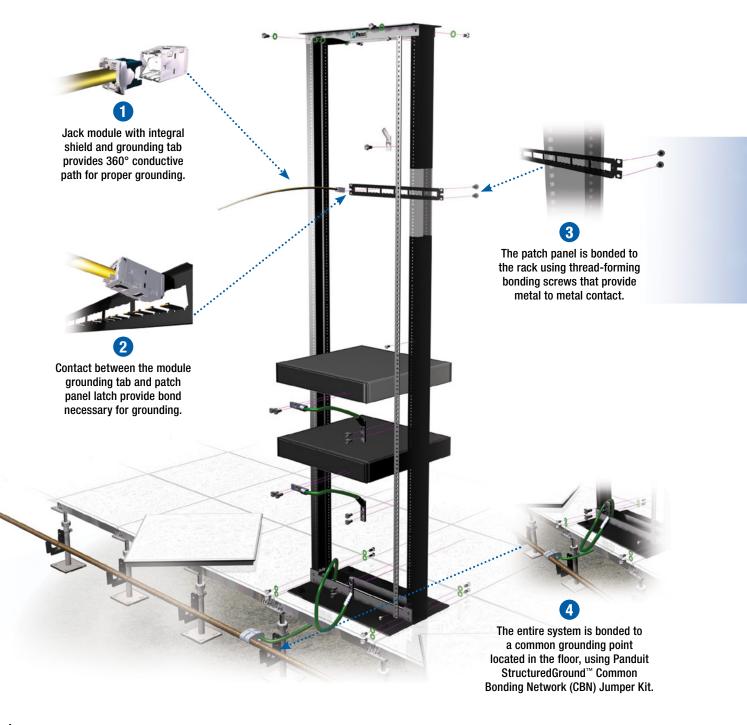


Integral pair manager ensures consistency and high performance

# Seamless Integration with Panduit StructuredGround<sup>™</sup> 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**





### **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<sup>\*</sup> 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<sup>SM</sup> System Warranty, the system must be installed by a Panduit Certified Installer and be registered by Panduit. The Certification Plus<sup>SM</sup> System Warranty is subject to various terms, conditions, and limitations. Go to www.panduit.com/warranty to review the Certification Plus<sup>SM</sup> 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			Cat 6	CMP	
PFR6C04BU-UG	Category 6, F/UTP, 23 AWG, CMR	Blue		Cat 6	CMR	
PFP6X04BU-UGZ	Category 6A, F/UTP, 23 AWG, CMP		1000 (305)		CMP	-
PFR6X04BU-CG	Category 6A, F/UTP, 23 AWG, CMR		(000)		CMR	
PFO6X04BL-CEG	Category 6A, F/UTP, 23 AWG, Outdoor				Outdoor	
U/FTP						
PUFP6X04BU-UG	Category 6A, U/FTP, 23 AWG, CMP	Blue	1000	Cat 6A	CMP	
PUFR6X04BU-UG	Category 6A, U/FTP, 23 AWG, CMR	Diue	(305)	Gal 6A	CMR	_

### Europe, Middle East, Africa

Rating	Description	Color	Length m	Category	Flame Rating	EuroClass
F/UTP				1		
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				СМ	-
PFL6X04BU-CEG	Category 6A, F/UTP, 23 AWG, LSZH		305		LSZH	Dca-s2, d2, a1
PFY6X04BU-CED	Category 6A, F/UTP, 23 AWG, LSZH	Blue	500	Cat 6A	LOZH	Cca-s1a, d1, a1
PFZ6X04BU-CED	Category 6A, F/UTP, 23 AWG, LSZH-3		500		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	Diue	500	Oat OA		Cca-s1a, d1, a1
F/FTP						
PFFL6X04BU-HED	Category 6A, F/FTP, 23 AWG, LSZH				LSZH	Dca-s2, d2, a1
PFFY6X04BU-HED	Category 6A, F/FTP, 23 AWG, LSZH	Blue	500	Cat 6A		Cca-s1a, d1, a1
PFFW6X04WH-KE	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		Cat 6A		Dca-s1a, d1, a1
PSL7004BU-HED	Category 7, S/FTP, 23 AWG, LSZH	Blue			LSZH	Dca-s1a, d1, a1
PSW7004BU-HED	Category 7, S/FTP, 23 AWG, LSZH	Diue	500	00 Cat 7		B2ca-s1a, d1, a1
PSO7004BL-KED	Category 7, S/FTP, 23 AWG, LSZH	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	_



# **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			Cat 6	СМ	
PFL6004BU-G	Category 6, F/UTP, 23 AWG, LSZH		305 500	Calo	LSZH	-
PFC6X04BU-CEG	Category 6A, F/UTP, 23 AWG, CM			Cat 6A	СМ	
PFL6X04BU-CEG	Category 6A, F/UTP, 23 AWG, LSZH	Blue			LSZH	Dca-s2, d2, a1
PFZ6X04BU-CEG	Category 6A, F/UTP, 23 AWG, LSZH-3			Gai bA	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			0-+ 0	СМ	
PFL6004BU-G	Category 6, F/UTP, 23 AWG, LSZH		305	Cat 6		-
PFL6X04BU-CEG	Category 6A, F/UTP, 23 AWG, LSZH		(1000)		LSZH	Dca-s2, d2, a1
PFR6X04BU-CG	Category 6, F/UTP, 23 AWG, CMR	Blue		Cat 6A )	CMR	_
PFZ6X04BU-CEG	Category 6A, F/UTP, 23 AWG, LSZH-3		500 (1640.42)	Cat 6A	LSZH-3	Dca-s2, d2, a1
PFC6X04BU-CEG	Category 6A, F/UTP, 23 AWG, CM		305		СМ	_
PFO6X04BL-CEG	Category 6A, F/UTP, 23 AWG, Outdoor	Black	(1000)		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

# **Shielded Copper Cabling System**

STP28X3MIG

#### **Shielded Jack Modules**



CJS6X88TGY



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

	Part Number	Description	Color‡	Length* (m)	Std. Pkg. Qty.	Std. Ctn. Qty.			
	Category 6A (Also	suitable for Category 6 applications)							
	STP6X1MBU		Blue.						
	STP6X1MIG	Category 6A 26 AWG S/FTP patch cord, CM/LSZH	Intl. Gray	1		10			
	STP6X2MBU		Blue		1				
	STP6X2MIG		Intl. Gray	2					
4 <i>PID</i> <b>D</b>	STP6X3MBU		Blue						
enabled	STP6X3MIG		Intl. Gray	3					
	Category 6A 28 AW	Category 6A 28 AWG (Also suitable for Category 6 applications)							
	STP28X1MBU		Blue	_					
	STP28X1MIG		Intl. Gray			10			
	STP28X2MBU		Blue						
	STP28X2MIG	Category 6A 28 AWG F/UTP patch cord, CM/LSZH	Intl. Gray	2	1				
	STP28X3MBU		Blue	0	1				
	OTDOONONIO		1 11 0	3	1				

\*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.

Intl. Gray

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.

# **Shielded Copper Cabling System**

#### Mini-Com<sup>™</sup> Shielded and All Metal Modular Patch Panels

	Part Numbers	No. of Rack Units	Style	Identification	Ports	Color
2	CP24BLY	- 1	Flat		24	
	CPA24BLY		Angled		24	
	CP48BLY	2	Flat	Adhesive	48	Black*
	CPA48BLY	2	Angled			ыаск
REFERE- 33 33 34	CP48HDBL		Flat			
	CPA48HDBL	1	Angled			
	CP24WSBLY		Flat		24	Black

\*Also available in White.

#### Labeling



Part Number	Description						
MP300	PXE <sup>™</sup> MP300 Mobile Label Printer						
MP300-ACS	PXE <sup>™</sup> MP300-ACS MP Printer Accessory, AC Power Adaptor for MP300						
		Qty of labels	Width	Length			
Part Number	MP Cassette Description	per cassette	In. (mm)	In. (mm)	Color		
C261X035Y1M	Component Label, Non-Adhesive Polyester	100	2.61 (66.29)	.35 (8.89)	Black on		
S100X150VAM	Turn Tell Colf Lominating Label Vinul	175	1.0 (25.4)	1.5 (38.1)	White		
R100X150V1M	Turn-Tell Self-Laminating Label, Vinyl	100					
Part Number	MP Cassette Description		Width In. (mm)	Length Ft. (m)	Color		
T024X000BPM-BK	PXE <sup>™</sup> Cassette, Continuous Tape, Pc	lyester	0.229 (5.82)	30 (9.1)	Black on White		

#### StructuredGround<sup>™</sup> 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	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
СИВК	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 16mm <sup>2</sup> green/yellow insulated cable pre-terminated with two hole lug. Includes copper compression tap	1

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

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