TX7000™ Shielded Copper Cable for Harsh Environments – S/FTP

PANDUIT®

specifications

Category 7 cable shall meet or exceed the IEC 61156-5 Category 7 component standard and be characterized to 1000 MHz. The conductors shall be stranded copper wire construction with polyethylene insulation. The copper conductors shall be twisted in pairs each surrounded by a foil, covered with an overall braided shield within an oil- and fuel-resistant, low smoke zero halogen (LSZH) jacket for use in harsh environment applications.

technical information

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of ISO 11801 Class E_A and ANSI/TIA-568-C.2 Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the Panduit® TX6A™ 10Gig™ Shielded Copper Cabling System
	Certified component performance up to 100 meters and meets or exceeds the component requirement of the IEC 61156-5 Category 7 standard at swept frequencies up to 600 MHz
Conductors/ insulators:	Stranded copper wire insulated with polyethylene
Standards compliance:	EN 50173-1, EN 50288-4-1, ISO/IEC 11801, IEC 61156-5, DNV specification number 6-827.50-2, IEC 60092-360
Certifications:	DNV certification number E-10447, ABS certification number 10-HS638424-1-PDA
Flame rating:	IEC 60754-1, IEC 60754-2, IEC 61034-2, IEC 60332-3-24
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
Chemical resistance:	Mineral oil IRM 902 (IEC 60811-2-1) 7 days/23°C (73°F); 4 hours/70°C (158°F) Diesel fuel IRM 903 (IEC 60811-2-1) 7 days/23°C (73°F); 4 hours/70°C (158°F)
Installation tension:	100 N maximum (22 lbf)
Temperature rating:	-15°C to 50°C during installation (5°F to 122°F) -40°C to 85°C during operation (-40°F to 185°F)
Cable jacket:	Oil- and fuel-resistant low smoke zero halogen (LSZH) (IEC 60332-3c),SHF2
Cable diameter:	7.9mm (0.314 in.) nominal
Cable weight:	38 kg/500 m (84 lbs./500 m)
Packaging:	500 or 1000 meters (1640 or 3280 feet) on a reel Package tested to ISTA Procedure 1A or 1B

key features and benefits

23 AWG stranded conductor wire	Provides exceptional signal strength and electrical performance for high vibration environments
Individually foiled pairs with overall braided shield	Foil prevents coupling near-end crosstalk and alien crosstalk between pairs while shield reduces low-frequency external interference to ensure 10GBASE-T performance
Robust jacketing	Oil- and fuel-resistant for harsh environments
Guaranteed channel performance above the standards	Industry leading guaranteed channel performance above the TIA/ISO standards with headroom warranty
Tested beyond the standards	Cable has been characterized to 1000 MHz, 400 MHz above the standard
Descending length cable markings	Easy identification of remaining cable reduces installation time and cable scrap
Bulk packaging	Supplied in reels for ease of installation
Third party tested	Exceeds the application requirements of Det Norske Veritas, American Bureau of Shipping, and ETL

applications

TX7000™ Shielded Copper Cable is a component of the TX6A™ 10Gig™ Shielded Copper Cabling System. This end-to-end system provides a cost-effective media for ensuring that the most challenging network bandwidth needs are easily met today and tomorrow. The durable flame- and oil-resistant jacket used in the TX7000™ S/FTP Shielded Copper Cable makes it the ideal choice for use in harsh environments. The use of shielding in the cable offers superior performance in uncertain high EMI environments for ultimate signal integrity.

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TX6A™ 10Gig™ Shielded Copper Cabling System

TX7000™ S/FTP Copper Cable
LSZH:	PSM7004*

Mini-Com® TX6A™ 10Gig™ Shielded Jack Module
Jack module:	CJS6X88TGY

TX6A™ 10Gig™ Shielded CM/LSZH Patch Cords
Feet:	STP6X**IG
Meters:	STP6X***MIG

Mini-Com® All Metal Shielded Angled Modular Patch Panels
24-port, 1 RU:	CPA24BLY
48-port, 2 RU:	CPA48BLY

Mini-Com® All Metal Shielded Flat Modular Patch Panels
24-port, 1 RU:	CPA24BLY
48-port, 2 RU:	CPA48BLY
72-port, 2 RU:	CPA72BLY

Cable Prep Tools
Wire snipping tool:	CWST
Wire stripping tool:	CJAST

*Cable color is IG (International Gray) and/or BU (Blue). For other cable colors please contact customer service.

**For lengths 3 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet, change the length designation in the part number to desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with Bl (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet) to the end of the part number. For example the part number for a blue, 15-foot patch cord is STP6X15BU.
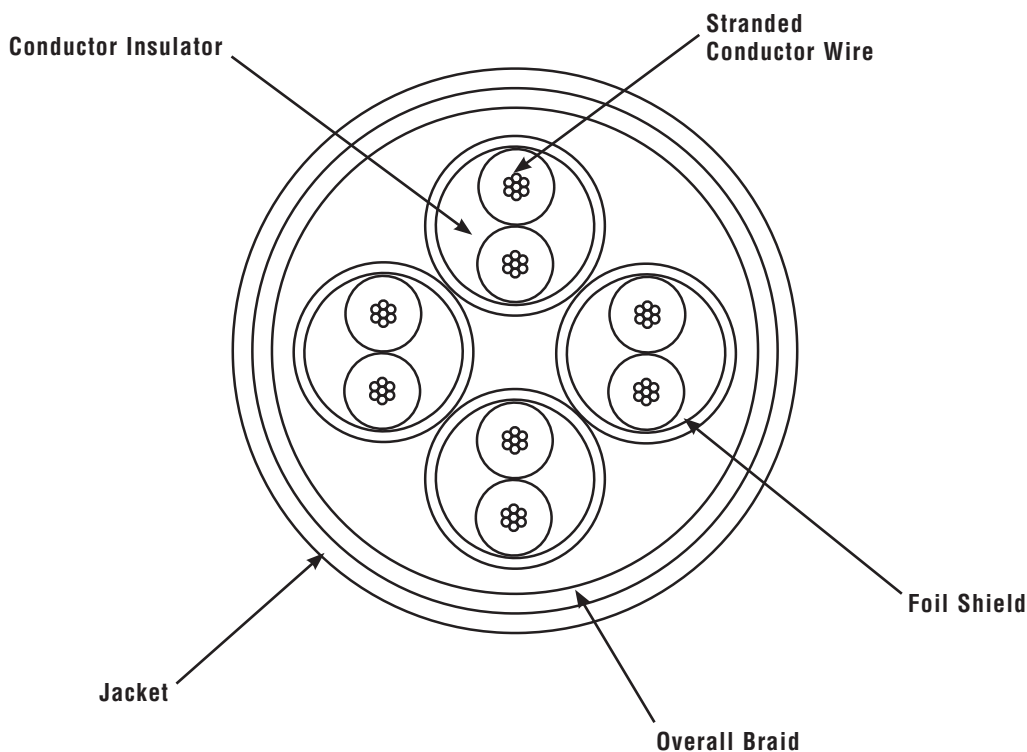
***For lengths 1 to 10 meters (increments of one meter) and 1.5, 2.5, 15, 20 meters, change the length designation in the part number to the desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with BL (Black) BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet) to the end of the part number. For example, the part number for a blue, 15-meter patch cord is STP6X15MBU.

Contact customer service for bulk packaged and/or keyed jack modules and patch cords.

additional specifications

Mechanical Test	
Ultimate Breaking Strength	>400 N (90 lbf)
Minimum Bend Radius	8 x cable diameter
Electrical Test	
Nominal Velocity of Propagation (NVP)	76% nominal

cable construction

Conductor Insulator

Stranded Conductor Wire

Foil Shield

Jacket

Overall Braid

product offering

Part Number	Packaging Configuration	Reel Size
PSM7004*-KED	Standard Euro Pallet (12 reels/pallet)	500m
PSM7004*-KD	Standard Pallet (12 reels/pallet)	500m
PSM7004*-KM	Standard Pallet (4 reels/pallet)	1000m
PSM7004*-KEM	Standard Euro Pallet (4 reels/pallet)	1000m

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For more information
Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300

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