

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

## 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 23 AWG 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

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Electrical performance:</b> | Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of ISO 11801 Class E <sub>A</sub> 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<br><br>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 |
| <b>Conductors/insulators:</b>  | 23 AWG stranded copper wire insulated with polyethylene                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Insulation diameter:</b>    | 1.52-1.60mm (0.060-0.063 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Standards compliance:</b>   | EN 50173-1, EN 50288-4-1, ISO/IEC 11801, IEC 61156-5, DNV specification number 6-827.50-2, IEC 60092-360                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Certifications:</b>         | DNV certification number E-14069, ABS certification number 10-HS638424-1-PDA                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Flame rating:</b>           | IEC 60754-1, IEC 60754-2, IEC 61034-2, IEC 60332-1, IEC 60332-3-24                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>PoE compliance:</b>         | Meets IEEE 802.3af and IEEE 802.3at for PoE applications                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Chemical resistance:</b>    | Mineral oil IRM 902 (IEC 60811-2-1) 7 days/23°C (73°F); 4 hours/70°C (158°F)<br>Diesel fuel IRM 903 (IEC 60811-2-1) 7 days/23°C (73°F); 4 hours/70°C (158°F)                                                                                                                                                                                                                                                                                                                                                         |
| <b>Installation tension:</b>   | 100 N maximum (22 lbf)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Temperature rating:</b>     | -15°C to 50°C during installation (5°F to 122°F)<br>-40°C to 85°C during operation (-40°F to 185°F)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cable jacket:</b>           | Oil- and fuel-resistant low smoke zero halogen (LSZH) (IEC 60332-3c), SHF1                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cable diameter:</b>         | 7.9mm (0.314 in.) nominal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Cable weight:</b>           | 38 kg/500 m (84 lbs./500 m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Packaging:</b>              | 500 or 1000 meters (1640 or 3280 feet) on a reel<br>Package tested to ISTA Procedure 1A or 1B                                                                                                                                                                                                                                                                                                                                                                                                                        |

## key features and benefits

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

### 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  
**72-port, 2 RU:** CPA72BLY

#### Mini-Com® All Metal Shielded Flat Modular Patch Panels

**24-port, 1 RU:** CP24BLY  
**48-port, 2 RU:** CP48BLY  
**72-port, 2 RU:** CP72BLY

#### Cable Prep Tools

**Wire snipping tool:** CWST  
**Wire stripping tool:** CCAST

\*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.

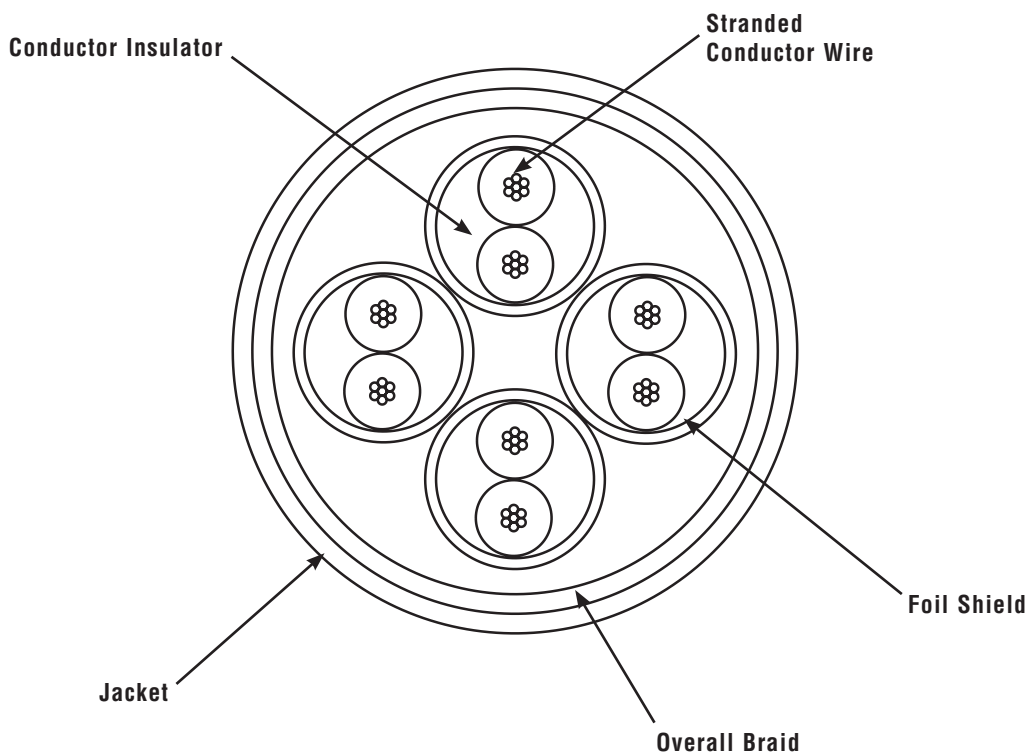
Contact customer service for bulk packaged and/or keyed jack modules and patch cords.

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## 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        |
| Operating Voltage, Maximum            | 80 V               |

## cable construction



## product offering

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

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

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