

TX6A™ Category 6A Shielded F/UTP Outside Plant (OSP) Copper Cable

specifications

Category 6A OSP cable shall meet the IEC 61156-5 and ANSI/ TIA-568-2.D Category 6A component standards. The conductors shall be 23 AWG with foamed polyethylene insulation. The cable shall have a gel-filled construction to prevent moisture migration in underground and wet applications and a wide temperature range for extreme weather environments. The copper conductors shall be twisted in pairs, separated by a pair separator, covered with an overall foil shield and a UV-resistant and abrasion-resistant polyethylene (PE) jacket. **Product is to be used in duct and conduit installations only. Not to be used in aerial or direct burial installations.**



technical information

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds ISO 11801 Class Ea and ANSI/TIA-568-2.D Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the Panduit® TX6A™ Copper Cabling System. Certified component performance up to 100 meters and exceeds the IEC 61156-5 and ANSI/TIA-568-2.D Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling.
Conductors/insulators:	23 AWG solid copper insulated with foamed polyethylene
Standards compliance:	ISO 11801 Class Ea, IEC 61156-5 Category 6A, ANSI/TIA-568-2.D Category 6A, IEC 60794-1-2F5 Method B Water Penetration Requirement
Flame rating:	EN50575: Euroclass Fca
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at, and IEEE 802.3bt for PoE applications
Installation tension:	25 lbf (110N) maximum
Temperature rating:	-40°C to 80°C (-40°F to 176°F) during operation 0°C to 50°C (32°F to 122°F) during installation
Cable jacket:	Black UV- and abrasion-resistant polyethylene (PE)
Cable diameter:	8.2mm (0.323 inch) nominal
Cable weight:	32 kg/305m (71 lbs./1000 feet)
Packaging:	305m (1000 feet) reel Package tested to ISTA procedure 1A

key features and benefits

Bulk packaging	Ensures proper performance and provides quick installation
Descending length cable markings	Print legend contains markings from 1000 ft to 0 ft
Robust design	Shielding protects against environmental elements that can cause electrical performance failures
Flooding compound	Waterproof gel prevents moisture migration and water ingress

applications

TX6A™ OSP Shielded Copper Cable is a component of the Panduit TX6A™ Copper Cabling System. This end-to-end system provides a cost-effective media for ensuring the most challenging network bandwidth needs are easily met today and tomorrow. Businesses are placing increased reliance on their networks to efficiently pass vital and time sensitive information throughout their enterprise.

Key applications include:

- 10GBASE-T Ethernet
- 1000BASE-T Gigabit Ethernet
- 10/100BASE-T Ethernet
- Broadband Video
- POE, POE+, POE++

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TX6A™ Shielded Copper Cable

OSP: PFO6X04BL-CEG

Mini-Com® TX6A™ 10Gig Shielded Jack Module

Jack module: CJS6X88TGY

TX6A™ 10Gig™ Shielded Patch Cords

Meters: STP6X**MIG

Feet: STP6X***IG

Mini-Com® Angled All Metal Shielded 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: CJUST

**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.

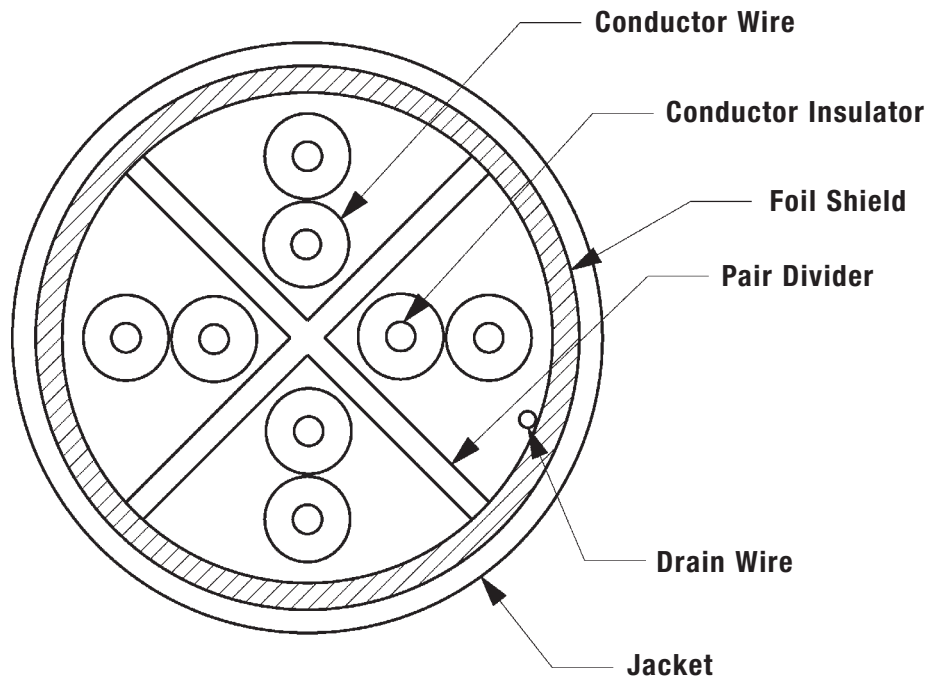
***For lengths 3 to 20 feet (increments of one foot) and 25, 30, 35, and 40 feet, change the length designation in the part number to the desired length. For standard cable colors other than IG (International Gray), substitute IG suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet) to the end of the part number. For example, the part number for a blue, 15-foot patch cord is STP6X15BU. 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)	65% nominal
Operating Voltage, Maximum	80V

cable construction



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PANDUIT US/CANADA
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
cs-emea@panduit.com
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
cs-ap@panduit.com
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
cs-japan@panduit.com
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
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cs-la@panduit.com
Phone: 52.33.3777.6000

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cs-aus@panduit.com
Phone: 61.3.9794.9020

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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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