

TX6™ Category 6 Shielded Copper Cable – F/UTP

North America

PANDUIT
SPECIFICATION SHEET

SPECIFICATIONS

Category 6 cable shall exceed the ANSI/TIA-568.2-E Category 6 component standards. The conductors shall be 23 AWG construction with FEP (CMP) or PE (CMR) insulation. The copper conductors shall be twisted in pairs, separated by a cross divider, and all four pairs shall be covered with an overall foil and a low smoke, flame-retardant (CMP) or flame-retardant (CMR) PVC jacket.



TECHNICAL INFORMATION

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100m and exceeds the ANSI/TIA-568.2-E Category 6 standards at swept frequencies up to 250 MHz Certified component performance up to 100m and meets or exceeds the component requirement of the ANSI/TIA-568.2-E Category 6A Standards at swept frequencies up to 250 MHz
Conductors/insulators:	Plenum: 23 AWG bare copper wire covered by FEP insulation Riser: 23 AWG bare copper wire covered by PE insulation
Insulation diameter:	Plenum: 0.041 in. – 0.043 in. (1.03mm – 1.08mm) Riser: 0.041 in. – 0.044 in. (1.03mm – 1.12mm)
Flame rating:	Plenum: NFPA 262 and CSA FT-6 Riser: UL1666 and CSA FT-4
Installation tension:	110 N (25 lbf.) maximum
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Temperature rating:	32°F to 140°F (0°C to 50°C) during installation -4°F to 167°F (-20°C to 75°C) during operation
Cable jacket:	Plenum: Low smoke, flame-retardant PVC Riser: Flame-retardant PVC
Cable diameter:	Plenum: 0.273 in. (6.9mm) nominal Riser: 0.288 in. (7.3mm) nominal
Cable weight:	Plenum: 39 lbs./1000 ft. (18 kg/305m) Riser: 35 lbs./1000 ft. (16 kg/305m)
Packaging:	1000 ft. (305m) on a reel Packaged tested to ISTA Procedure 1A

KEY FEATURES AND BENEFITS

Descending length cable markings:	Easy identification of remaining cable reduces installation time and cable scrap
Overall foil:	Provides superior structural integrity and reduces external interference to ensure exceptional cable performance at all swept frequencies
Reel packaging:	Ensures proper performance and provides quick installation
Third-party tested:	Cable has been tested as part of the TX6000 Category 6 F/UTP Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of the ANSI/TIA-568.2-E Category 6 standards

TX6A Shielded Copper Cable – F/UTP

CMP: PFP6C04**-UGZ

CMR: PFR6C04**-UGZ

**Colors: BU (Blue), WH (White), RD (Red), OR (Orange), YL (Yellow), GR (Green), VL (Violet), IG (International Gray), or BL (Black)



All listed part numbers are compliant with the U.S. Trade Agreements Act (TAA) for purchases shipped to customers in the United States.

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APPLICATIONS

TX6 Shielded Copper Cable is a component of the TX6 Shielded Copper Cabling System. Interoperable and backwards compatible, this end-to-end system provides design flexibility to protect network investments well into the future. With certified performance to the ANSI/TIA-568.2-E Category 6 standards, this system is ideal for today's high performance workstations and will support the following applications:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet), 1GBASE-T, 10 Gigabit Ethernet over limited distances as specified in the industry 10GBASE-T standards
- 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM
- Token Ring 4/16

ADDITIONAL SPECIFICATIONS

Mechanical Test	
Ultimate breaking strength:	> 400 N (90 lbf)
Minimum bend radius:	8 x cable diameter
Engineering Test	
Nominal velocity of propagation (NVP):	CMR – 69%, CMP – 71% nominal
Operating voltage, maximum:	80 V

ENGINEERING DRAWING

