

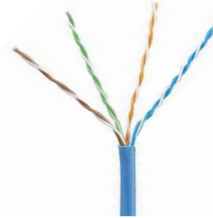
TX6™ Category 6 U/UTP Copper Cable

PANDUIT®

SPECIFICATION SHEET

specifications

Category 6 cable shall meet ANSI/TIA-568.2-D and IEC 61156-5 Category 6 standards. The conductors shall be 23 AWG construction with FEP/polyolefin (CMP) or polyolefin (CMR) insulation. The copper conductors shall be twisted in pairs and covered by a low smoke, flame-retardant (CMP) PVC jacket or a flame-retardant (CMR) PVC jacket.



technical information

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100 meters and meets ANSI/TIA-568.2-D Category 6 and ISO 11801 Class E standards at swept frequencies up to 250 MHz Certified component performance up to 100 meters and meets the component requirements of ANSI/TIA-568.2-D and IEC 61156-5 Category 6 component standards at swept frequencies up to 250 MHz
Conductors/insulators:	Plenum – 23 AWG solid copper covered by FEP/polyolefin insulation Riser – 23 AWG solid copper covered by polyolefin insulation
Insulation diameter:	Plenum – 0.031-0.048 in. (0.78-1.21mm) Riser – 0.031-0.048 in. (0.78-1.21mm)
Flame rating:	Plenum – NFPA 262 and CSA FT-6 Riser – UL1666 and CSA FT-4
Standard compliance:	UL Listed CMP-LP (0.5A) for Plenum
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at, and IEEE 802.3bt for PoE applications
Installation tension:	25 lbf (110 N) maximum
Temperature rating:	32°F to 122°F (0°C to 50°C) during installation Plenum – -4°F to 194°F (-20°C to 90°C) during operation Riser – -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 – 0.205 in. (5.2mm) nominal Riser – 0.214 in. (5.4mm) nominal
Cable weight:	Plenum – 22.9 lbs./1000 ft. (10.4 kg/305m) Riser – 21.5 lbs./1000 ft. (9.8 kg/305m)
Packaging	1000 ft. (305m) in an easy payout carton Package tested to ISTA Procedure 1A

key features and benefits

Third party tested	Cable has been tested as part of the Category 6 UTP Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of the following standards: ANSI/TIA-568.2-D Category 6 and ISO 11801 Class E
Descending length cable markings	Easy identification of remaining cable reduces installation time and cable scrap
Tested beyond the standards	Cable has been characterized to 350 MHz, 100 MHz above the standard
Easy payout carton	Ensures proper performance and provides quick installation

applications

Interoperable and backward compatible, the Panduit TX6™ Category 6 Cabling System provides design flexibility to protect network investments well into the future. With certified performance to the ANSI/TIA-568-C.2-D Category 6 and ISO 11801 Class E standards, this system will support the following applications:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (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

Category 6 U/UTP Copper Cable

Plenum: PUP6C04*-F

Riser: PUR6C04*-F

*For standard cable colors, add suffix BU (Blue), WH (White), RD (Red), OR (Orange), YL (Yellow), GR (Green), VL (Violet), IG (International Gray), or BL (Black).

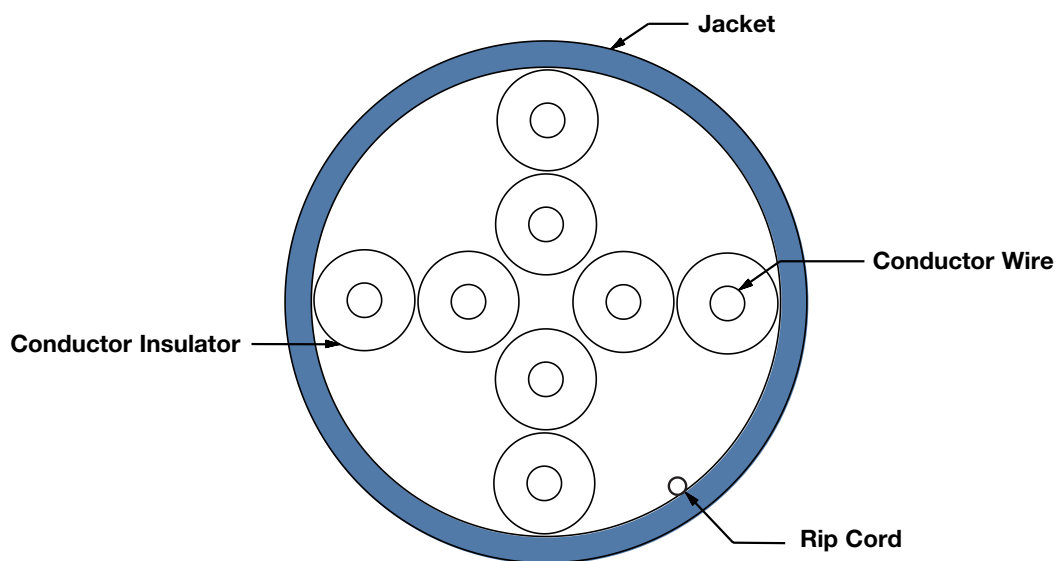
Visit www.panduit.com for connectivity components.

TX6™ Category 6 U/UTP Copper Cable

additional specifications

Mechanical Test	
Ultimate Breaking Strength	>90 lbf (400 N)
Minimum Bend Radius	4 x cable diameter
Electrical Test	
DC Resistance	6.82 Ohm per 100m (328 ft.)
Nominal Velocity of Propagation (NVP)	Riser – 67%, Plenum – 69%
Operating Voltage, Maximum	80 V

cable construction



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