

TX6™ Category 6 U/UTP Copper Cable

specifications

Category 6 cable shall meet ANSI/TIA-568-C.2 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-conductor configuration up to 100 meters and meets ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E standards at swept frequencies up to 250MHz Certified component performance up to 100 meters and meets the component requirements of ANSI/TIA-568-C.2 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
Flame rating:	Plenum – NFPA 262 and CSA FT-6 Riser – UL1666 and CSA FT-4
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
Installation tension:	25 lbf (110N) maximum
Temperature rating:	32°F to 122°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:	0.203 in. (5.2mm) 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 Procedure1A

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-C.2 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 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 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

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Plenum:	PUP6C04*-F
Riser:	PUR6C04*-F

Cable Prep Tools

Wire snipping tool:	CWST
Wire stripping tool:	CJAST

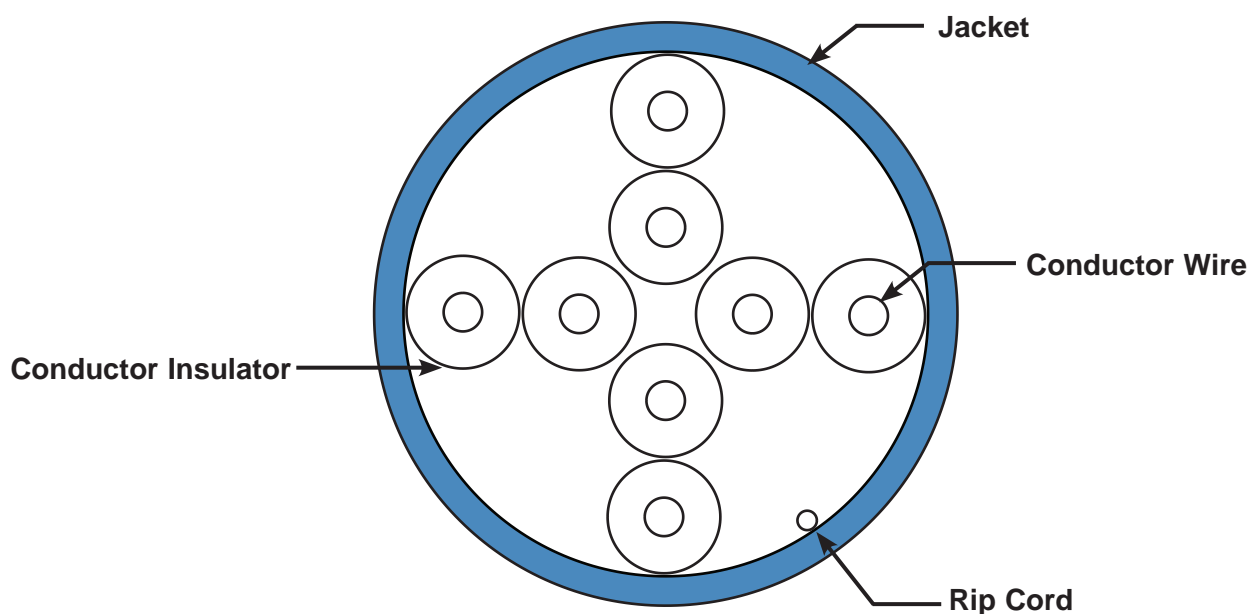
*For standard cable colors, add suffix BU (Blue) or WH (White). For additional colors, contact customer service.

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additional specifications

Mechanical Test	
<i>Ultimate Breaking Strength</i>	> 90 lbf (400N)
<i>Minimum Bend Radius</i>	4 x cable diameter
Electrical Test	
<i>Nominal Velocity of Propagation (NVP)</i>	Riser – 67%, Plenum – 69%
<i>Operating Voltage, Maximum</i>	80V

cable construction



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