

TX6™ Category 6 U/UTP Copper Cable

North America

PANDUIT®
SPECIFICATION SHEET

SPECIFICATIONS

Category 6 cable shall meet ANSI/TIA-568.2-E Category 6 component Standard. The conductors shall be 24 AWG construction with FEP/polyolefin insulation. The copper conductors shall be twisted in pairs and covered by a low smoke, flame-retardant (CMP) PVC jacket.



TECHNICAL INFORMATION

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100m and meets ANSI/TIA-568.2-E Category 6 Standard at swept frequencies up to 250MHz
	Certified component performance up to 100m and meets the component requirements of ANSI/TIA-568.2-E Category 6 component Standard at swept frequencies up to 250 MHz
Conductors/insulators:	24 AWG solid copper covered by FEP/polyolefin insulation
Insulation diameter:	0.033 in. - 0.046 in. (0.83mm - 1.17mm)
Flame rating:	NFPA 262 and CSA FT-6
Installation tension:	25 lbf (110N) maximum
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
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:	Low smoke, flame-retardant PVC
Cable diameter:	0.215 in. (5.4mm) nominal
Cable weight:	28 lbs./1000 ft. (13 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 U/UTP Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of the following Standard: ANSI/TIA-568.2-E Category 6
Guaranteed channel performance above the standards:	Industry leading guaranteed channel performance exceeding the TIA/ISO Standards with headroom guaranteed
Descending length cable markings:	Easy identification of remaining cable reduces installation cable markings time and cable scrap
Tested beyond the standards:	Cable has been characterized to 550 MHz, 300 MHz above the standard
Extended temperature range:	Allows operation in 75°C (167°F) ambient environment providing error-free performance in high-density cabinets and large cable bundles running PoE+ or PoE++ applications
Reelex™ packaging:	Compact carton ensures proper performance and provides quick installation

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CMP: PUP6C04**-WZ

**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 panduit.com for connectivity components.

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APPLICATIONS

Interoperable and backward compatible, the TX6 U/UTP Cabling System provides design flexibility to protect network investments well into the future. With certified performance to the ANSI/TIA-568.2-E 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), 10GBASE-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:	> 90 lbf (400 N)
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Minimum bend radius:	4 x cable diameter
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Electrical Test

Nominal velocity of propagation (NVP):	70% nominal
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Operating voltage, maximum:	80 V
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ENGINEERING DRAWING

