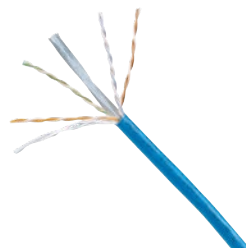# TX6000™ Unshielded Category 6 U/UTP Copper Cable

North America

PANDUIT®
SPECIFICATION SHEET

SPECIFICATIONS

Category 6 cable shall exceed the ANSI/TIA-568.2-E and IEC 61156-5 Category 6 component standards. The conductors shall be 23 AWG construction with FEP/polyolefin insulation. The copper conductors shall be twisted in pairs, separated by a cross-divider and covered by a low smoke, flame-retardant (CMP) jacket.

TX6000 Unshielded Category 6 U/UTP Copper Cable

CMP:	PUP6004 **-WZ

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

TECHNICAL INFORMATION

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100m and exceeds ANSI/TIA-568.2-E Category 6 and ISO 11801 Class E standards at swept frequencies up to 250 MHz
	Certified component performance up to 100m and exceeds the component requirements of ANSI/TIA-568.2-E and IEC 61156-5 Category 6 component standards at swept frequencies up to 250 MHz
Conductors/insulators:	23 AWG bare copper wire covered by FEP/polyolefin insulation
Insulation diameter:	0.034 in. – 0.044 in. (0.6mm – 1.2mm)
Flame rating:	NFPA 262 and CSA FT-6
Installation tension:	25 lbf (110 N) 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:	0.225 in. (5.7mm) nominal
Cable weight:	28 lbs./1000 ft. (13 kg/305m)
Packaging:	1000 ft. (305m) in easy payout carton
	Package tested to ISTA Procedure 1A

KEY FEATURES AND BENEFITS

Third-party tested:	Cable has been tested as part of the TX6000 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
Integrated pair divider:	Separates pairs for exceptional cable performance
Easy payout carton:	Ensures proper performance and provides quick installation
Tested beyond the standards:	Cable has been characterized to 550 MHz, 300 MHz above the standard
Descending length cable markings:	Easy identification of remaining cable reduces installation time and cable scrap

APPLICATIONS

TX6000 U/UTP Copper Cable is a component of the TX6000 Category 6 U/UTP Copper Cabling System. Interoperable and backward 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 and ISO 11801 Class E standards, this system will support the following applications:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet)
- 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM
- Token Ring 4/16

TX6000™ Unshielded 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	
Nominal velocity of propagation (NVP):	70% nominal
Operating voltage, maximum:	80 V

ENGINEERING DRAWING

Jacket

Conductor Wire

Cross-Divider

Conductor Insulator

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