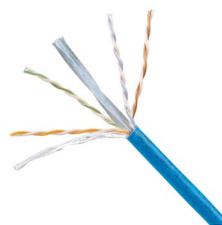


TX6™ Category 6 U/UTP Copper Cable

specifications

Category 6 U/UTP cable shall meet ANSI/TIA-568.2-D and IEC 61156-5 Category 6 component standards. The conductors shall be 24 AWG copper insulated with HDPE polymer. The copper conductors shall be twisted in pairs, separated by a cross divider and covered by a flame retardant PVC (CM) jacket.



technical information

Electrical performance:	Certified performance in a 4-connector configuration up to 100 meters, meets ANSI/TIA-568.2-D, ISO 11801 Class E and IEC 61156-5 Category 6 channel and component requirements
Conductors/insulators:	24 AWG solid copper insulated with HPDE
Insulation diameter:	0.86 - 1.21mm (0.034 - 0.048 in.)
Certification:	ANATEL 2485-09-6246
Flame rating:	UL 1685; EN50575: Euroclass Eca
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	110 N (25 lbf) maximum
Temperature rating:	0° to 50°C (32° to 122°F) during installation -20° to 75°C (-4° to 167°F) during operation
Cable jacket:	Flame retardant PVC
Cable diameter:	5.8mm (0.229 in.) nominal
Cable weight:	12 kg/305m (26 lbs./1000 ft.)
Packaging:	305m (1000 ft.) easy-pay-out box Packaged tested to ISTA procedure 1A

key features and benefits

Third party tested	Cable has been tested as part of the TX6™ 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-D Category 6 standard
Descending length cable markings	Easy identification of remaining cable reduces installation time and cable scrap
Cross divider	Separates twisted pairs for robust cable performance
Tested beyond the standards	Cable has been characterized to 350 MHz, 100 MHz above the standard
Easy payout box	Ensures proper performance and provides quick installation

applications

TX6™ U/UTP Copper Cable is a component of the Panduit® TX6™ 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-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), 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

TX6™ U/UTP Copper Cabling

CM: PUC6C04**-FE

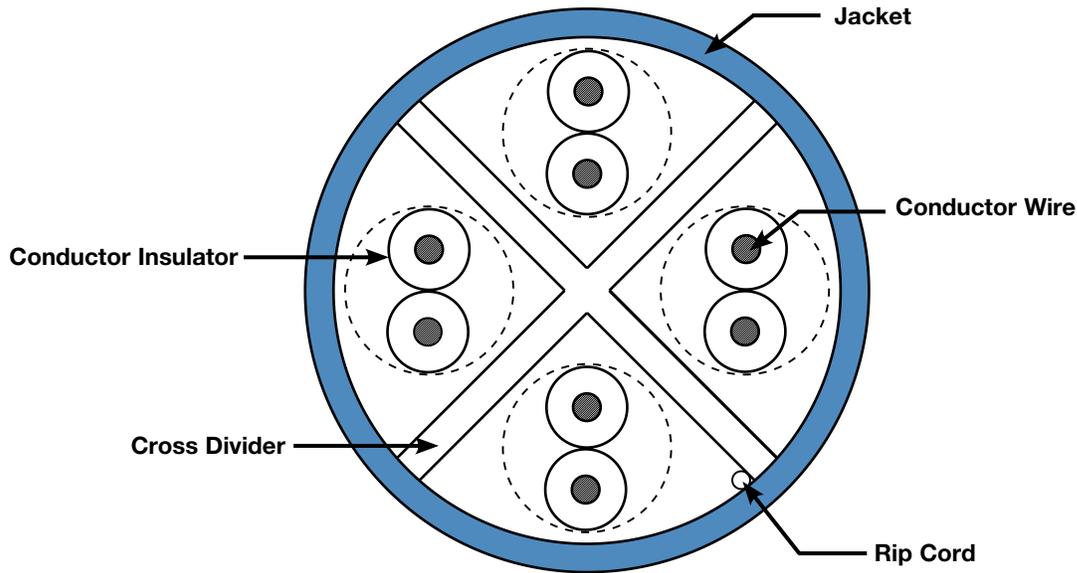
**To designate a color, add suffix BU (Blue), WH (White), YL (Yellow), IG (International Gray), BL (Black), RD (Red), GR (Green), OR (Orange), or VL (Violet).

TX6™ Category 6 U/UTP Copper Cable

additional specifications

Mechanical Test	
Ultimate Breaking Strength	>400 N (90 lbf.)
Minimum Bend Radius	4x cable diameter
Electrical Test	
DC Resistance	<9.38 Ohm per 100m (328 ft.)
DC Resistance Unbalance	<5%
Mutual Capacitance	<5.6 nF per 100m (328 ft.)
Capacitance Unbalance	<330 pF per 100m (328 ft.)
Characteristic Impedance	100 Ohm +/-15% up to 100 MHz
Nominal Velocity of Propagation (NVP)	65%
Operating Voltage, Maximum	80 V

cable construction



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