

specifications

Category 6 cable shall exceed ANSI/TIA/EIA-568-B.2-1 and IEC 61156-5 Category 6 component standards. The conductors shall be 23 AWG construction with FEP (CMP) or polyolefin (CMR) insulation. The copper conductors shall be twisted in pairs, separated by a cross-divider and covered by a low smoke, flame retardant (CMP) jacket or a flame retardant (CMR) jacket.



technical information

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds ANSI/TIA/EIA-568-B.2-1 and ISO 11801 2nd Edition Class E Category 6 standards at swept frequencies up to 250 MHz Certified component performance up to 100 meters and exceeds the component requirements of ANSI/TIA/EIA-568-B.2-1 and IEC 61156-5 Category 6 component standards at swept frequencies up to 250 MHz
Conductors/insulators:	Plenum – 23 AWG bare copper wire covered by FEP insulation Riser – 23 AWG bare copper wire covered by polyolefin (PE) insulation
Flame rating:	Plenum – NFPA 262 Riser – UL1666
Installation tension:	25 lbf (110 N) maximum
Temperature rating:	32°F to 122°F (0°C to 50°C) during installation 14°F to 140°F (-10°C to 60°C) during operation
Cable jacket:	Plenum – low smoke, flame retardant PVC Riser – flame retardant PVC
Cable diameter:	Plenum – 0.236 in. (5.9mm) nominal Riser – 0.240 in. (6.1mm) nominal
Cable weight:	Plenum – 28 lbs./1000 ft. (12.7 kg/305m) Riser – 31 lbs./1000 ft. (14.1 kg/305m)
Packaging:	1000 Ft. (305m), reel-in-a-box Plenum – 32 lbs./1000 ft. (14.5 kg/305m) Riser – 35 lbs./1000 ft. (15.9 kg/305m) 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/EIA-568-B.2-1 Category 6
Integrated pair divider	Separates pairs for exceptional cable performance
Reel-in-a-box	Ensures proper performance and provides quick installation
Descending length cable markings	Easy identification of remaining cable reduces installation time and cable scrap

applications

TX6000™ UTP Copper Cable is a component of the PANDUIT® TX6000™ 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/EIA-568-B.2-1 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

www.panduit.com

TX6000™ UTP Copper Cabling System

TX6000™ UTP Copper Cable

Plenum: PUP6004*-UY
Riser: PUR6004*-UY

MINI-COM® TX6™ PLUS UTP Jack Module

Jack module: CJ688TG**

TX6™ PLUS UTP Patch Cords

Foot lengths: UTPSP3***Y
Meter lengths: UTPSP1M*Y

DP6™ PLUS Angled Punchdown Patch Panels

24 port, 1 RU: DPA24688TGY
48 port, 2 RU: DPA48688TGY

DP6™ PLUS Flat Punchdown Patch Panels

12 port: DP12688TGY
24 port, 1 RU: DP24688TGY
48 port, 2 RU: DP48688TGY

GP6™ PLUS Category 6 Punchdown System

See website (www.panduit.com) or catalog for complete system information.

Cable Prep Tools

Wire snipping tool: CWST
Wire stripping tool: CCAST

*To designate a color, add suffix BU (Blue), WH (White), YL (Yellow) or IG (International Gray). For additional cable colors, contact customer service.

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

***For lengths 1 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet, change the length designation in part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange) or VL (Violet) before Y at the end of the part number. For example, the part number for a blue, 15-foot patch cord is UTPSP15BUY.

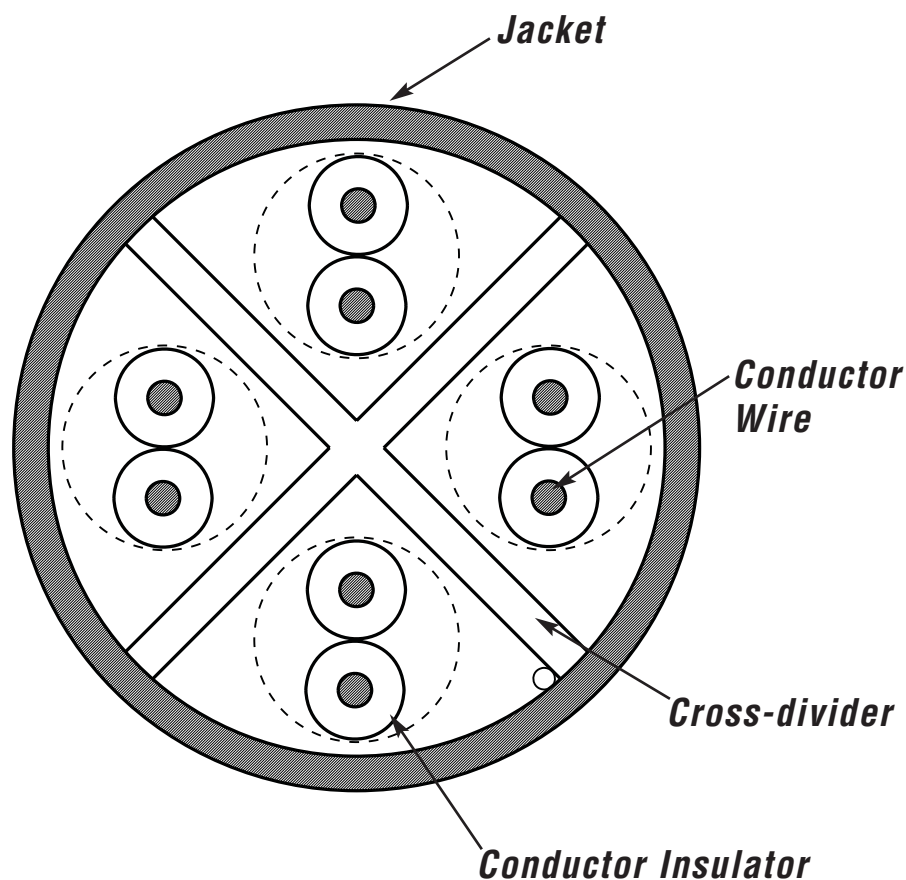
^For lengths 1 to 10 meters (increments of one meter) and 0.5, 1.5, 2.5, 15, 20 meters, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange) or VL (Violet) before Y at the end of the part number. For example, the part number for a blue, 5 meter patch cord is UTPSP5MBUY.

TX6000™ 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	<9.38 Ohm per 328 ft. (100m)
DC Resistance Unbalance	<5%
Mutual Capacitance	<5.6 nF per 328 ft. (100m) at 1 kHz
Capacitance Unbalance	<330 pF per 328 ft. (100m) at 1 kHz
Characteristic Impedance	100 Ohm +/-15 up to 500 MHz
Nominal Velocity of Propagation (NVP)	CMR – 70% nominal, CMP – 72% nominal

Cable Construction



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For a copy of *PANDUIT* product warranties, log on to www.panduit.com/warranty



For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800-777-3300 and reference COSP136

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