

specifications

Category 6 cable shall exceed IEC 61156-5 and ANSI/TIA/EIA-568-B.2-1 Category 6 component standards. The conductors shall be 24 AWG construction with HDPE insulation. The copper conductors shall be twisted in pairs, separated by a cross divider, and all four pairs shall be covered by a LSZH jacket.



technical information

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds ISO 11801 2nd Edition Class E and ANSI/TIA/EIA-568-B.2-1 Category 6 standards at swept frequencies up to 250 MHz Certified component performance up to 100 meters and exceeds the component requirements of IEC 61156-5 and ANSI/TIA/EIA-568-B.2-1 Category 6 component standards at swept frequencies up to 250 MHz
Conductor/Insulator:	24 AWG solid copper insulated with HDPE
Flame rating:	IEC 60332-1
Installation tension:	110 N (25 lbf) maximum
Temperature rating:	0°C to 50°C (32°F to 122°F) during installation -20°C to 60°C (-4°F to 140°F) during operation
Cable jacket:	LSZH
Cable diameter:	5.7 mm (0.224 in.)
Cable weight:	12 kg/305m (28 lbs./1000 ft.)
Packaging:	305m (1000 ft.), in an easy payout box 14 kg/305m (31 lbs./1000 ft.) 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 standards: ISO/IEC 11801 2nd Edition: 2002, EN 50173-1:2002, and ANSI/EIA/TIA-568-B.2-1
Cross-divider	Separates pairs for exceptional cable performance
Reduced attenuation	Maximizes the amount of signal that reaches the receiver and increases bandwidth
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™ 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 ISO 11801 Class E standards and NSI/TIA/EIA-568-B.2-1 Category 6, this system is ideal for today's high performance workstation applications. Usage of the TX6000™ Copper Cabling System includes:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet), 1GBASE-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
- Data system

T6000™ Copper Cabling System

TX6000™ UTP Copper Cable

LSZH: PUL6004*Y

MINI-COM® TX6™ PLUS UTP Jack Module

Jack Module: CJ688TG**

TX6™ PLUS UTP LSZH Patch Cords

1 meter: UTPSPL1M***Y

1 meters: UTPSPL2M***Y

3 meters: UTPSPL3M***Y

5 meters: UTPSPL5M***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 snipping tool: CCAST

*For colors and pallet configurations, reference back page.

**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).

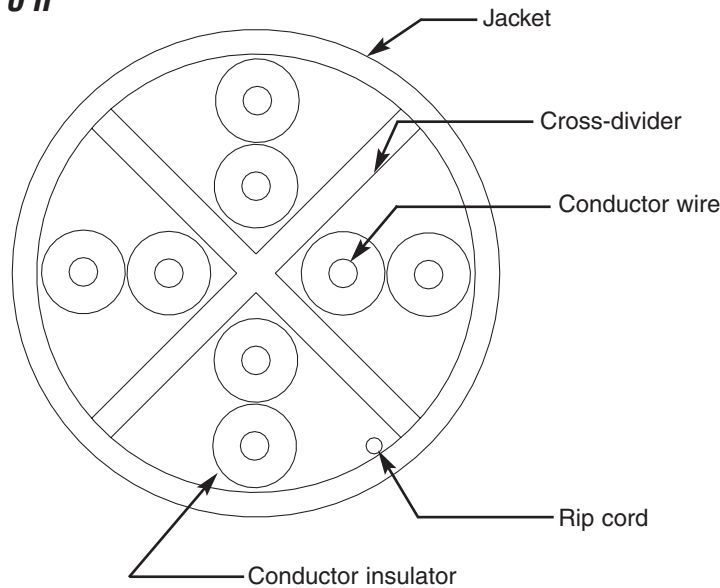
***For lengths 1 to 10 meters (increments of one meter) and 0.5, 1.5, 2.5, 15, 20, 25, 30, 35, 40 meters, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), GR (Green), YL (Yellow), OR (Orange) or VL (Violet) after the M in the part number. For example, the part number for a 15-meter patch cord with clear boots is UTPSPL15MBUY.

TX6000™ UTP Copper Cable

Additional Specifications

Mechanical Test	
Ultimate Breaking Strength	>400 N (90 lbf)
Minimum Bend Radius	4 x 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.) at 1 kHz
Capacitance Unbalance	<330 pF per 100m (328 ft.) at 1 kHz
Characteristic Impedance	100 Ohm +/-15% up to 100 MHz
Nominal Velocity of Propagation (NVP)	67% at 250 MHz

Cable Construction



Product Offering

Part Number	Packing Configuration	Color	Length per Carton or Reel
PUL6004BUY	Standard Pallet (27) cartons/pallet, 9 cartons x 3 layers	Blue	305 m / 1000 ft
PUL6004WH-EDY	Standard Pallet (27) cartons/pallet, 9 cartons x 3 layers	White	500 m / 1640 ft
PUL6004WH-EY	European Pallet (18) cartons/pallet, 6 cartons x 3 layers	White	305 m / 1000 ft
PUL6004BWH-J	Individual carton (Japan market only)	White	305 m / 1000 ft

For other color or pallet configurations, contact customer service.

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA
Markham, Ontario
cs-cdn@panduit.com
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
cs-emea@panduit.com
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
cs-ap@panduit.com
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
cs-japan@panduit.com
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Jalisco, Mexico
cs-la@panduit.com
Phone: 52.333.777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
cs-aus@panduit.com
Phone: 61.3.9794.9020

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 COSP149

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