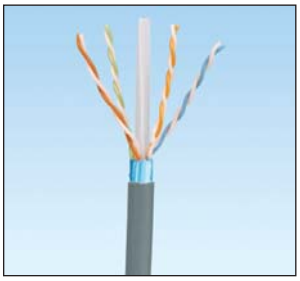
TX6000™ Shielded Copper Cable – F/UTP

PANDUIT®

SPECIFICATION SHEET

specifications

Category 6 cable shall be constructed of 23 AWG copper conductors with PE insulation. The copper conductors shall be twisted in pairs and separated by an integrated pair separator. All four pairs shall be surrounded by an overall metallic foil shield within a low smoke zero halogen jacket.



technical information

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of ISO 11801 Class E and ANSI/TIA-568-C.2 Category 6 standards for swept frequencies up to 250 MHz
Conductors/insulators:	23 AWG solid bare copper wire covered by PE insulation
Flame rating:	IEC 60332-1, IEC 60754-1, IEC 60754-2 and IEC61034-2
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
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:	7.2mm (0.283 in.) nominal
Cable weight:	25 kg/500m (55 lbs./1640 ft.)
Packaging:	26 kg/500m (57 lbs./1640 ft.) on a reel Packaged tested to ISTA Procedure 1A

key features and benefits

Integrated pair divider:	Separates pairs for exceptional cable performance
Overall foil shield:	Provides superior structural integrity and reduces low frequency external interference to ensure exceptional cable performance at all swept frequencies up to 250 MHz
Internal drain wire:	Facilitates means of grounding the cable and provides for efficient performance and protection of network investment
Descending length cable markings:	Easy identification of remaining cable reduces installation time and cable scrap
Bulk packaging:	Supplied 500m (1640 ft.) to a reel

applications

TX6000™ Shielded Copper Cable is a component of the Panduit® TX6000™ Shielded 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 and ANSI/TIA-568-C.2 Category 6 standards.

Usage of the TX6000™ Shielded 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

TX6000™ Shielded Copper Cabling System

TX6000™ Shielded Copper Cable – F/UTP

LSZH:	PFL6004DG-KD

TX6™ PLUS Shielded Jack Module

Jack module:	CJS688TGY

TX6A™ 10Gig™ Shielded Patch Cords

Meters:	STP6X**MIG
Feet:	STP6X***IG

Mini-Com® Angled All Metal Shielded Modular Patch Panels

24-port, 1 RU:	CPA24BLY
48-port, 2 RU:	CPA48BLY
72-port, 2 RU:	CPA72BLY

Mini-Com® Flat All Metal Shielded Modular Patch Panels

24-port, 1 RU:	CP24BLY
48-port, 2 RU:	CP48BLY
72-port, 2 RU:	CP72BLY

Cable Prep Tools

Wire snipping tool:	CWST
Wire stripping tool:	CJAST

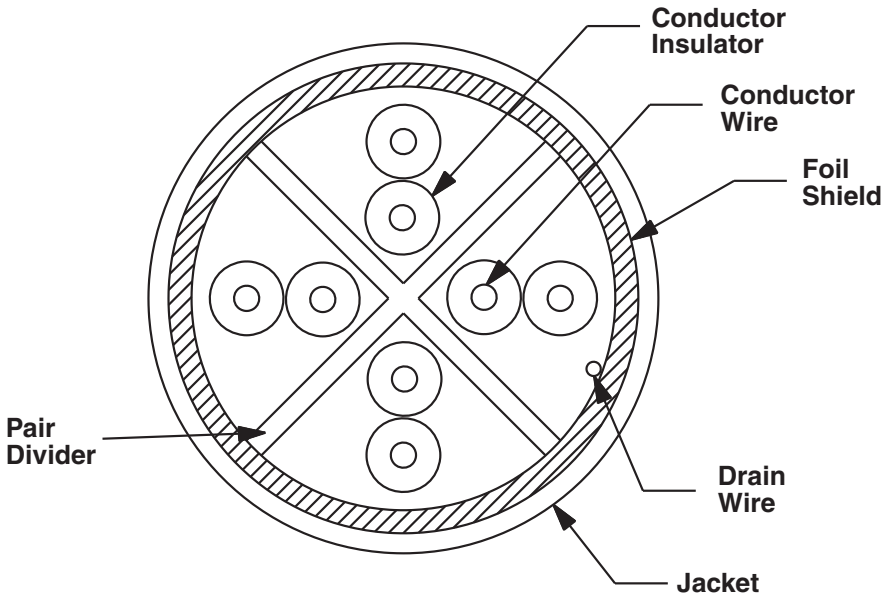
*DG in part number represents Dark Gray. For additional cable colors, contact customer service.

**For lengths 1 to 10 meters (increments of one meter) and 1.5, 2.5, 15, 20 meters, change the length designation in the part number to desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange) or VL (Violet) to the end of the part number, For example, the part number for a blue, 15-meter patch cord is STP6X15MBU.

***For lengths 3 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet, change the length designation in the part number to desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange) or VL (Violet) to the end of the part number. For example, the part number for a blue, 15-foot patch cord is STP6X15BU.

TX6000™ Shielded Copper Cable – F/UTP

Mechanical Test	
Ultimate Breaking Strength	>400 N (90 lbf)
Minimum Bend Radius	8 x cable diameter
Electrical Test	
DC Resistance	<9.38 ohm per 100m (328 ft.)
DC Resistance Unbalance	<2.5%
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)	65% nominal



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
Guadalajara, Mexico
cs-la@panduit.com
Phone: 52.33.3777.6000

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 COSP188

WW-COSP188
1/2011