TX5500™ F/UTP Copper Cable

PANDUIT®

SPECIFICATION SHEET

specifications

Category 5e cable shall exceed ANSI/TIA-568-C.2 and IEC 61156-5 Category 5e component standards. The conductors shall be 24 AWG construction with FEP (CMP) or polyethylene (CMR) insulation. All four pairs shall be shielded with an overall polyester aluminum foil with stranded copper drain wire and covered with a low smoke flame-retardant PVC jacket (CMP) or flame-retardant PVC (CMR) jacket.

technical information

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds ISO 11801 2nd Edition Class D and ANSI/TIA-568-C.2 Category 5e standards at swept frequencies up to 100 MHz
	Certified component performance up to 100 meters and exceeds the component requirement of IEC 61156-5 and ANSI/TIA-568-C.2 Category 5e component standards at swept frequencies up to 100 MHz
Conductors/ insulators:	Plenum: 24 AWG solid copper insulated with FEP Riser: 24 AWG solid copper insulated with polyethylene
Flame rating:	Plenum: NFPA 262 Riser: UL 1666
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
Installation tension:	25 lbf (110 N) maximum
Temperature rating:	32°F to 122°F (0°C to 50°C) during installation -4°F to 140°F (-20°C to 60°C) during operation
Cable jacket:	Plenum – low smoke flame-retardant PVC Riser – flame-retardant PVC
Cable diameter:	Plenum – 0.229 in. (5.81mm) nominal Riser – 0.241 in. (6.12mm) nominal
Cable weight:	Plenum – 30 lbs./1000 ft. (13.6 kg/305m) Riser – 29 lbs./1000 ft. (13.1 kg/305m)
Packaging:	1000 ft. (305m) on a reel Plenum – 37 lbs./1000 ft. (16.8 kg/305m) Riser – 36 lbs./1000 ft. (16.3 kg/305m) Package tested to ISTA procedure 1A

key features and benefits

Overall metallic foil shield	Provides the additional signal isolation advantage of an F/UTP design and is ideal for network installations that may be subjected to higher than normal external electromagnetic noise sources
Improved security	Reduces signal emissions for secure transmissions
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

applications

TX5500™ F/UTP Copper Cable is a component of the Panduit® TX5500™ Shielded Copper Cabling System. This end-to-end system provides design flexibility to protect network investments. With certified performance to the ISO 11801 Class D standards and ANSI/TIA-568-C.2 Category 5e, this system is ideal for today's high performance workstation applications.

Usage of the TX5500™ Shielded Copper Cabling System includes:

- 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

TX5500™ Shielded Copper Cabling System	
TX5500™ F/UTP Copper Cable	
Plenum:	PFP5504IG*-UY
Riser:	PFR5504IG*-UY
Mini-Com® TX5e™ Shielded Jack Module	
Jack module:	CJS5E88TGY
TX5e™ Shielded Patch Cords	
Meters:	STPCH**MBBL
Mini-Com® Angled All Metal Modular Patch Panels	
24-port, 1 RU:	CPA24BLY
48-port, 2 RU:	CPA48BLY
72-port, 2 RU:	CPA72BLY
Mini-Com® Flat All Metal 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

*For cable colors other than IG (International Gray), contact customer service.

**For standard 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. Standard patch cable color is Off White. For standard strain relief boot colors other than Black, replace suffix BL (Black) with BU (Blue), GR (Green), RD (Red), YL (Yellow) or OR (Orange) in the part number. For example, the part number for a 15-meter Off White patch cord with blue strain relief boots is STPCH15MBBU.

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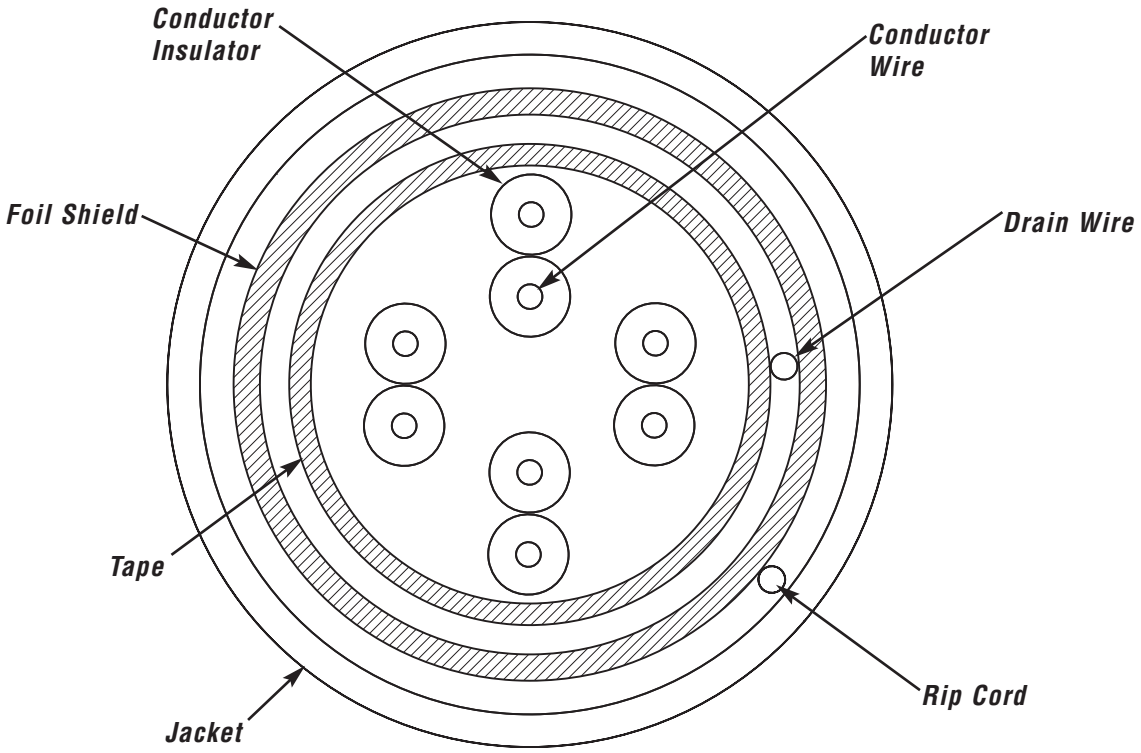
Additional Specifications

Mechanical Test	
Ultimate Breaking Strength	>90 lbf (400 N)
Minimum Bend Radius	8 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 100 MHz
Nominal Velocity of Propagation (NVP)	72% nominal

Cable Construction



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

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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 COSP140

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