TX6500[™] Premium Category 6 U/UTP Copper Cable



specifications

Category 6 cable shall far exceed ANSI/TIA-568-C.2 and ISO 11801 Class E 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 an integrated pair divider and shall be 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-568-C.2 Category 6 and ISO 11801 Class E standards at swept frequencies up to 250 MHz		
	Certified component performance up to 100 meters and exceeds the component requirements of ANSI/TIA-568-C.2 Category 6 and IEC 61156-5 component standards at swept frequencies up to 250 MHz		
Standards	UL Listed CMP-LP (0.5A) for Plenum		
compliance:			
Conductors/	Plenum – 23 AWG bare copper wire covered by FEP insulation		
insulators:	Riser – 23 AWG bare copper wire covered by polyolefin insulation		
Flame rating:	Plenum – NFPA 262 and CSA FT-6		
	Riser – UL 1666 and CSA FT-4		
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications		
Installation tension:	25 lbf. (110 N) maximum		
Temperature rating:	Plenum – 32°F to 122°F (0°C to 50°C) during installation		
	-4°F to 194°F (-20°C to 90°C) during operation		
	Riser – 32°F to 122°F (0°C to 50°C) during installation		
	-4°F to 167°F (-20°C to 75°C) during operation		
Cable jacket:	Plenum – low smoke, flame-retardant PVC		
	Riser – flame-retardant PVC		
Cable diameter:	Plenum – 0.264 in. (6.7mm) nominal		
	Riser – 0.265 in. (6.8mm) nominal		
Cable weight:	Plenum – 32 lbs./1000 ft. (14.5 kg/305m)		
	Riser – 30 lbs./1000 ft. (13.6 kg/305m)		
Packaging:	1000 ft. (305m), EZ-Brake [∞] Reel-in-a-Box		
	Packaging tested to ISTA Procedure 1A		

key features and benefits

Third party tested	Cable has been tested as part of the TX6500° Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of the following standard: ANSI/TIA-568-C.2 Category 6	
Guaranteed channel performance Industry leading guaranteed channel performance above above the standards the TIA/ISO standards with headroom guarantee		
Integrated pair divider	Separates pairs for exceptional cable performance	
EZ-Brake [™] Reel-in-a-Box	Ensures proper performance and provides quick installation	
Tested beyond the standards the standard	Cable has been characterized to 600 MHz, 350 MHz above	
Extended temperature range	Allows operation in 90°C (194°F) ambient environment providing error-free performance in high-density cabinets and large cable bundles running PoE+ or PoE++ applications	
Reduced attenuation	Maximizes the amount of signal that reaches the receiver and increases bandwidth	

applications

TX6500[°] U/UTP Copper Cable is a component of the Panduit^{*} TX6500[°] 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-C.2 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)



TX6500™ Category 6 Copper Cable	U/UTP	
Plenum: Riser:	PUP6504*-UY PUR6504*-UY	
Mini-Com® TX6™ PLU Jack Module	IS UTP	
Jack module:	CJ688TG**	
TX6™ PLUS UTP Patcl	h Cords	
Foot lengths: Meter lengths:	UTPSP3***Y UTPSP1M^Y	
DP6™ PLUS Angled Po Patch Panels	unchdown	
24-port, 1 RU: 48-port, 2 RU:	DPA24688TGY DPA48688TGY	
DP6™ PLUS Flat Punc Patch Panels	hdown	
12-port: 24-port, 1 RU: 48-port, 2 RU:	DP12688TGY DP24688TGY DP48688TGY	
GP6™ PLUS Category Punchdown System	6	
See website (www.pandui complete system informat		
Cable Prep Tools		
Wire snipping tool: Wire stripping tool:	CWST CJAST	
*To designate color, add s WH (White), YL (Yellow), o For additional cable colors customer service	r IG (Int'l Gray).	
**To designate color, add suffix IW (Off White), El (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 ength designation in part number to the		

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.

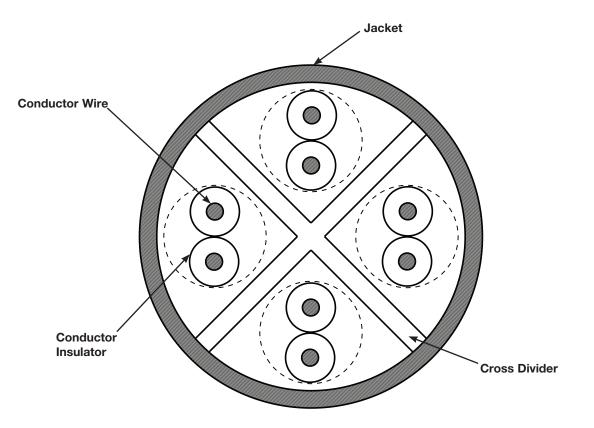
AFor lengths 1 to 10 meters (increments of one meter) and 0.5, 1.5, 2.5, 15, 20 meters, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet)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

TX6500[™] Premium Category 6 U/UTP Copper Cable

additional specifications

Mechanical Test	
Ultimate Breaking Strength	>90 lbf (400N)
Minumum Bend Radius	4 x cable diameter
Electrical Test	
Nominal Velocity of Propagation (NVP)	CMP – 73% nominal CMR – 70% nominal
Operating Voltage, Maximum	80 V

cable construction



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