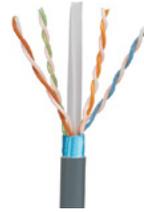


TX6A™ 10Gig™ Shielded Copper Cable – F/UTP

specifications

Category 6A cable shall be constructed of 23 AWG copper conductors with PE CM, CMR or LSZH 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. The TX6A10Gig Shielded Copper Cable must be installed as part of a complete TX6A10Gig Shielded Copper Cabling System to achieve 10GBASE-T certified performance.



technical information

Electrical performance: Certified channel performance in a 4-connector configuration up to 100m and exceeds the requirements of ISO 11801 Class E_A and ANSI/TIA-568.2-D Category 6A Standards for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the TX6A10Gig Shielded Copper Cabling System

Certified component performance up to 100m and meets or exceeds the component requirement of the ISO/IEC 11801 Category 6A and ANSI/TIA-568.2-D Category 6A Standards for supporting 10GBASE-T transmission over twisted-pair cabling systems

Conductors/insulators: 23 AWG solid bare copper wire covered by PE insulation

Insulation diameter: 0.0415" - 0.044"(1.05mm - 1.12mm)

Flame rating: LSZH: IEC 60332-3-22, IEC 60754-1, IEC 60754-2, IEC 601034-2, EN 50575: EuroClass Dca-s2,d2,a1
CM: UL 1685
CMR: UL 1666
CMP: NFPA 262

Standards compliance: UL Listed CMP-LP 0.7A and CMR-LP 0.5A

Installation tension: 110 N (25 lbf) maximum

PoE compliance: Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications

Temperature rating: -4°F to 167°F (-20°C to 75°C)
Installation (Operation)

Cable jacket: LSZH, CM, CMR, CMP

Cable diameter: LSZH: 7.3mm (0.287") nominal CM,CMR: 7.2mm (0.284) nominal
CMP: 7.5mm (0.296") nominal

Cable weight: LSZH: 16 kg/305m (35 lbs./1000') CM, CMR: 15 kg/305m (33 lbs./1000')
CMP: 19 kg/305m (42 lbs./1000')

Packaging LSZH: 18 kg/305m (40 lbs./1000') on a reel CM, CMR: 17 kg/ 305mm (37 lbs./1000') on a reel
CMP: 20 kg/305mm (46 lbs./1000')
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 500 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 305m (1000') to a reel

applications

TX6A 10Gig Shielded Copper Cable is a component of the TX6A 10Gig Shielded Copper Cabling System. This end-to-end system provides a cost-effective medium for ensuring that network bandwidth needs are easily met today and tomorrow. The shielded cabling system provides high performance, excellent EMI suppression, and aids in secure data transmission. The solution helps ensure

organizations efficiently and reliably meet their data transmission needs. Usage of the TX6A 10Gig Shielded Copper Cabling System include high bandwidth applications within data centers and connections to high-end workstations such as:

- 10GBASE-T Ethernet
- Data Center applications
- Virtual business management applications

TX6A 10Gig Shielded Copper Cable – F/UTP

LSZH:	PFL6X04*-CEG
CM:	PFC6X04*-CEG
CMR:	PFR6X04*-CG
CMP:	PF6X04*-UG

Jack Module: CJS6X88TGY

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

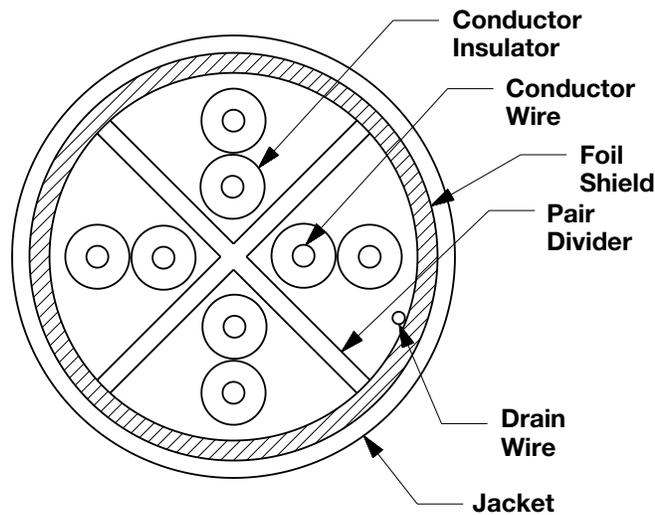
Wire snipping tool:	CWST
Wire stripping tool:	CJAST

*To designate color, add suffix BU (Blue) or WH (White). For additional cable colors, contact customer service.

Country of Origin, China: PFR6X04BU-CG and PFR6X04WH-CG

TX6A™ 10Gig™ Shielded Copper Cable – F/UTP

	LSZH	CM	CMR	CMP
Mechanical Test				
Ultimate Breaking Strength	>400 N (90 lbf)			
Minimum Bend Radius	8 x cable diameter during installation 4 x cable diameter during operation			
Electrical Test				
Mutual Capacitance	<5.6 nF per 100m (328 ft.) at 1 kHz			
Characteristic Impedance	100 Ohm +/-15% up to 100 MHz			
Nominal Velocity of Propagation (NVP)	63% nominal	65% nominal		70% nominal
DC Resistance	<9.38 Ohm per 100m (328 ft.)	<9.50 Ohm per 100m (328 ft.)	<7.32 Ohm per 100m (328 ft.)	8.9 Ohm per 100m (328 ft.)
DC Resistance Unbalance	<5%	<2%	<5%	<4%
Capacitance Unbalance	<330 pF per 100m (328 ft.)	<160 pF per 100m (328 ft.)	<330 pF per 100m (328 ft.) at 1 kHz (pair/ground)	<330 pF per 100m (328 ft.) at 1 kHz (pair/ground)
Maximum Operating Voltage	80V	80V	80V	80V



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