

TX6A™ Unshielded Category 6A Copper Cable

specifications

Category 6A/Class E_A cable shall be constructed of 23 AWG copper conductors with HDPE insulation. The copper conductors shall be twisted in pairs with each pair individually covered with a metallic foil barrier tape. The foil barrier tape shall not be grounded. All four pairs shall then be covered with a Low Smoke Zero Halogen (LSZH) jacket.



technical information

| | |
|---|---|
| Category 6A/Class E_A channel performance: | Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of ISO 11801 Class E _A standards swept up to 650 MHz for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the Panduit® TX6A™ UTP Copper Cabling System. |
| Cable diameter: | 7.2mm (0.283 in.) nominal |
| Conductors/insulators: | 23 AWG solid copper insulated with flame retardant HDPE (LSZH) |
| Flame rating: | LSZH (60332-1): IEC 60332-1, IEC 60754, IEC 61034, EuroClass Dca-s2,d2,a1 LSZH (Cca): IEC 60332-1, IEC 60754, IEC 61034, EN 50575: EuroClass Cca-s1a,d0,a1 Note that the d0 classification applies only to product manufactured on or after February 9, 2020. Product manufactured prior has the d1 classification. |
| PoE compliant: | Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications |
| Installation tension: | 110N (25 lbf) maximum |
| Temperature rating: | 0°C to 50°C (32°F to 122°F) during installation -20°C to 75°C (-4°F to 167°F) during operation |
| Cable jacket: | HDPE (LSZH) |
| Cable weight: | 15.4 kg/305m (33.9 lbs./1000 ft.); 25.3 kg/500m (55.8 lbs./1640 ft.) |
| Packaging: | 17.8 kg/305m (39.2 lbs./1000 ft.); 26.2 kg/500m (57.8 lbs./1640 ft.) Package tested to ISTA procedure 1A |

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LSZH (60332-1): PUL6X04*-HE+

LSZH (Cca): PUY6X04*-HE+

* To designate colour, add suffix WH (White) and BU (Blue). For additional cable colours, contact customer service.
+ G for 305m reel; D for 500m reel

key features and benefits

| | |
|---|--|
| Robust cable design | Small cable diameter delivers superior PSANEXT and PSAACRF suppression |
| Round cable design | Improves fill capacity, cable management, reduces required bend radius and allows efficient use of pathways and spaces |
| Highest density | All testing based on 48-port/1RU panels |
| Descending length cable markings | Easy identification of remaining cable to reduce installation time and cable scrap |

applications

The TX6A™ UTP Copper Cable with MaTriX Technology is a component of the TX6A™ Copper Cabling System. Interoperable and backward compatible, this end-to-end system provides design flexibility to protect network investments well into the future.

Key applications include:

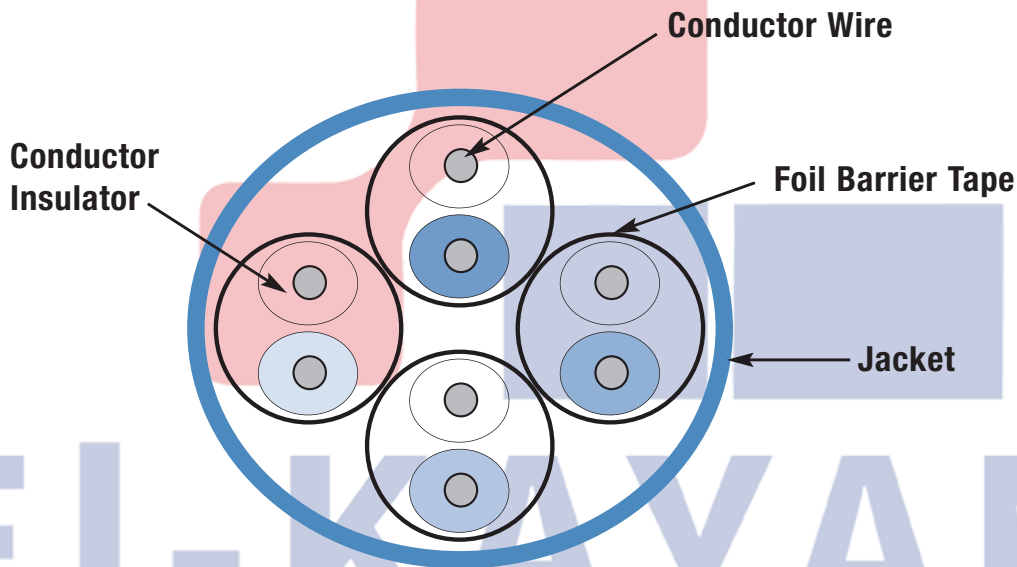
- 10GBASE-T Ethernet
- Data center I/O consolidation
- Data center server virtualization
- Consolidation of network interconnects
- Back-bone aggregation
- Parallel processing and high speed computing

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additional specifications

| Mechanical Test | |
|---------------------------------------|-------------------------------------|
| Ultimate Breaking Strength | > 90 lbf (400 N) |
| Minimum Bend Radius | 4 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) | Panduit 76% |
| Operating Voltage, Maximum | 80 V |

cable construction



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For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information

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