

NetKey® Unshielded Category 6A Copper Cable

specifications

Category 6A/Class E_A cable shall be constructed of 23 AWG copper conductors with HDPE Low Smoke Zero Halogen (LSZH) 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 HDPE 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 500 MHz for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the Panduit® NetKey® 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 LSZH (Cca): IEC 60332-1, IEC 60754, IEC 61034, EuroClass Cca-s1a,d1,a1 per EN 13501
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 60°C (-4°F to 140°F) during operation
Cable jacket:	HDPE (LSZH)
Cable weight:	15.0 kg/305m (33.1 lbs./1000 ft.); 24.6 kg/500m (54.2 lbs./1640 ft.)
Packaging:	17.4 kg/305m (38.4 lbs./1000 ft.); 27.0 kg/500m (59.5 lbs./1640 ft.) Package tested to ISTA procedure 1A

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LSZH (60332-1): NUL6X04*-HE+

LSZH (Cca): NUY6X04*-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 NetKey® 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:

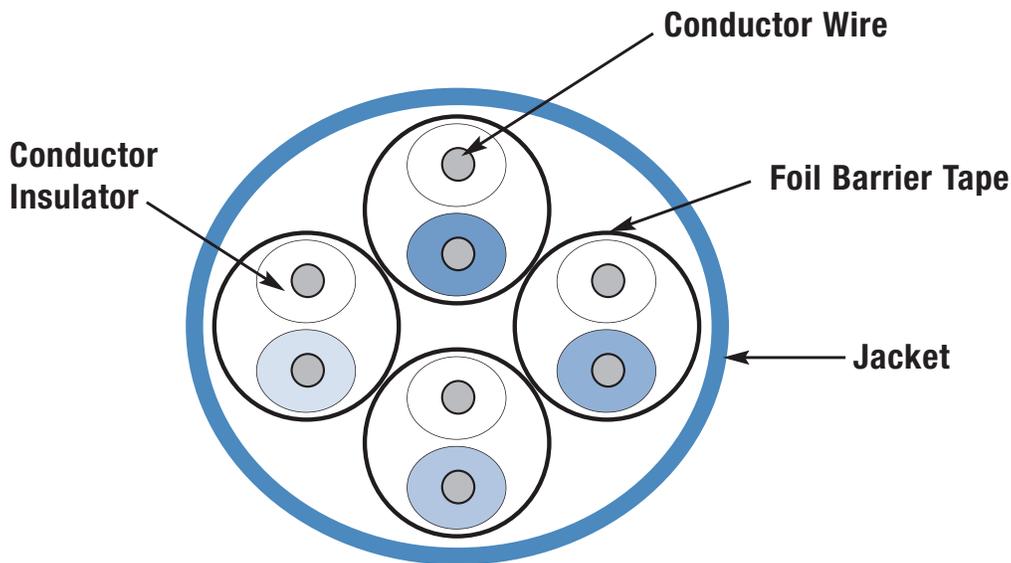
- 10GBASE-T Ethernet
- Data center I/O consolidation
- Data center server virtualization
- Consolidation of network interconnects
- Back-bone aggregation
- Parallel processing and high speed computing

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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	80V

cable construction



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For more information

Visit us at www.panduit.com

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