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 and separated by a cross divider with an overall AXT barrier tape. The AXT barrier tape shall not be grounded. All four pairs are surrounded by a PVC flame-retardant jacket.
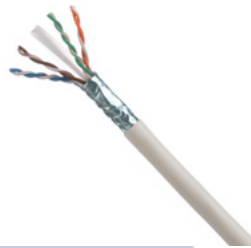
NetKey Category 6A U/UTP Copper Cable

LSZH:	NUL6X04**-FEG

**Colors: BU (Blue, WH (White), RD (Red), OR (Orange), YL (Yellow), GR (Green), VL (Violet), IG (International Gray), or BL (Black).

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 NetKey U/UTP Copper Cabling System.
Cable diameter:	6.8mm (0.271 in.) nominal
Insulation diameter:	1.05-1.13mm (0.041-0.044 in.)
Conductors/insulators:	23 AWG solid copper insulated with HDPE
Flame rating:	IEC 60332-1, IEC 60332-3-22, IEC 60754, IEC 61034 EN 50399: EuroClass Dca-s2,d2,a1
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:	14 kg/500m (31 lbs./1640 ft.)
Packaging:	305m (1000 ft.) on a reel Packaged tested to ISTA procedure 1A

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:	Easy identification of remaining cable to reduce installation time and cable scrap

APPLICATIONS

The NetKey U/UTP Copper Cable 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.
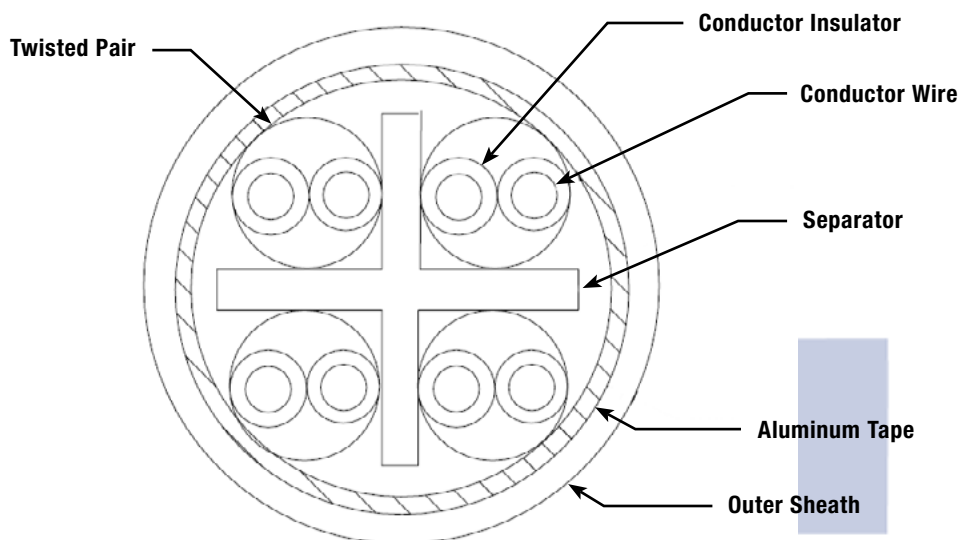
Key applications include:

- 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

ADDITIONAL SPECIFICATIONS

Mechanical Test	
Ultimate Breaking Strength	>400 N (90 lbf)
Minimum Bend Radius	8 x Cable Diameter
Engineering 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
Characterisitic Impedance	100 Ohm +/-15% up to 100 MHz
Nominal Velocity of Propagation (NVP)	63% nominal
Operating Voltage, Maximum	80 V

ENGINEERING DRAWING

Twisted Pair · Conductor Insulator · Conductor Wire · Separator · Aluminum Tape · Outer Sheath

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

For more information
Visit us at www.panduit.com
Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300