NetKey® Category 6 U/UTP Copper Cable

PANDUIT®
SPECIFICATION SHEET

SPECIFICATIONS

Category 6 U/UTP copper cable shall meet ANSI/TIA-568.2-E Category 6 and ISO 11801 Class E channel standards. The conductors shall be 24 AWG copper insulated with HDPE polymer. The copper conductors shall be twisted in pairs, separated by a cross divider, and all four pairs are covered by a LSZH jacket.

NetKey U/UTP Copper Cable	
LSZH:	NUL6C04**-FE

**To designate a color, add suffix BU (Blue), WH (White), YL (Yellow), IG (International Gray), BL (Black), RD (Red), GR (Green), OR (Orange), or VL (Violet).

TECHNICAL INFORMATION

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100m and meets the requirements of ANSI/TIA-568.2-E Category 6 and ISO 11801 Class E channel standards at swept frequencies up to 250 MHz
Conductor/insulator:	24 AWG solid copper insulated with HDPE polymer
Insulation diameter:	0.86mm - 1.22mm (0.034 in. - 0.048 in.)
Flame rating:	IEC 60332-1, IEC 60332-3-22, IEC 60754, IEC 61034, EN 50575: Dca-s2,d2,a1
Certification:	ANATEL 02486-09-06246
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	110 N (25 lbf) maximum
Temperature rating:	0°C to 50°C (32°F to 122°F) during installation -20°C to 75°C (14°F to 167°F) during operation
Cable jacket:	LSZH
Cable diameter:	5.7mm (0.224 in.) nominal
Cable weight:	12 kg/305m (26 lbs./1000 ft.)
Packaging:	305m (1000 ft.) easy-pay-out box Packaged tested to ISTA procedure 1A

KEY FEATURES AND BENEFITS

Third-party tested:	Cable has been tested as part of the NetKey Category 6 UTP Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of the following standard: ANSI/TIA-568.2-E Category 6 standard
Descending length cable markings:	Easy identification of remaining cable reduces installation time and cable scrap
Cross divider:	Separates twisted pairs for robust cable performance
Easy payout box:	Ensures proper performance and provides quick installation

SPECIFICATIONS

Applications include:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), and 1000BASE-T (Gigabit Ethernet)
- 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM
- Token ring 4/16

ADDITIONAL SPECIFICATIONS

Mechanical Test	
Ultimate breaking strength:	> 400 N (90 lbf)
Minimum bend radius:	4 x cable diameter
Electrical Test	
Nominal velocity of propagation (NVP):	65% nominal
Operating voltage, maximum:	80 V

ENGINEERING DRAWINGS