

NetKey® NK6™ Category 6 U/UTP Copper Cable

PANDUIT
SPECIFICATION SHEET

SPECIFICATIONS

Category 6 U/UTP copper cable meets ANSI/TIA-568.2-E Category 6 and ISO 11801 Class E channel standards. The conductors are 24 AWG copper insulated with HDPE polymer. The copper conductors are twisted in pairs, separated by a cross divider and covered by a low smoke zero halogen or flame retardant PVC (CM) jacket.



NetKey® NK6™ U/UTP Copper Cable

CM: NUC6C04**-ME

**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 performance in a 4-connector configuration up to 100m, meets ANSI/TIA-568.2-E Category 6 and ISO 11801 Class E channel requirements
Conductors/insulators:	24 AWG solid copper insulated with HDPE polymer
Insulation diameter:	0.88mm - 0.98mm (0.034 in. - 0.038 in.)
Flame rating:	UL 1685
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:	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:	Flame retardant PVC (CM)
Cable diameter:	5.6mm (0.222 in.) nominal
Cable weight:	11 kg/305m (25 lbs./1000 ft.)
Packaging:	305m (1000 ft.) Reelex™ easy payout box Packaged tested to ISTA procedure 1A

KEY FEATURES AND BENEFITS

Third-party tested:	Cable has been tested as part of the NetKey NK6 Category 6 U/UTP Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of the 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

APPLICATIONS

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

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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 DRAWING

