NetKey® NK6™ Category 6 U/UTP Copper Cable

specifications

Category 6 U/UTP copper cable meets ANSI/TIA-568.2-D 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 or CMR) jacket in pairs, separated by a cross divider and covered by a flame retardant PVC (CM) jacket.
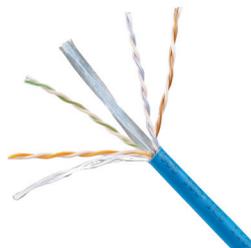
NetKey® NK6™ Copper Cabling System

**NetKey® NK6™ U/UTP Copper Cable**

CM:	NUC6C04**-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 performance in a 4-connector configuration up to 100 meters, meets ANSI/TIA-568.2-D Category 6 and ISO 11801 Class E channel requirements
Conductor/insulator:	24 AWG solid copper insulated with HDPE polymer
Insulation diameter:	0.86-1.21mm (0.034-0.048 in.)
Flame rating:	UL 1685 EN50575: Euroclass Eca
Certification:	ANATEL 2486-09-6246
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:	Flame retardant PVC
Cable diameter:	5.6mm (0.222 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® 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-D 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-pay-out 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%
Operating Voltage, Maximum	80 V

cable construction

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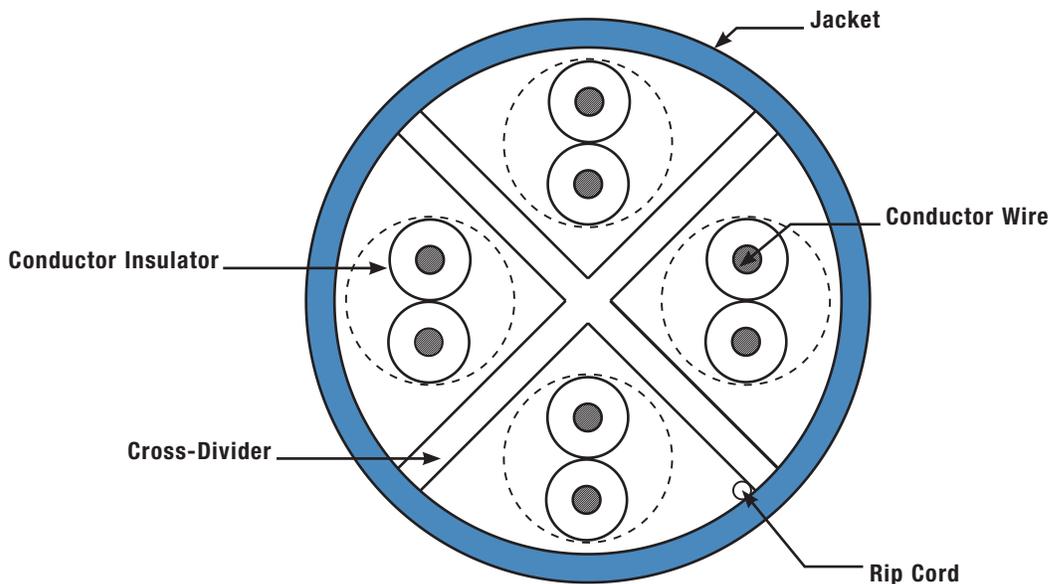
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