

NetKey® Category 6 U/UTP Copper Cable

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. The copper conductors shall be twisted in pairs, separated by a cross divider and covered by a flame retardant PVC (CMR) jacket.



NetKey U/UTP Copper Cable

CMR: NUR6C04**-M

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

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
Conductor/insulator:	24 AWG solid copper insulated with HDPE
Flame rating:	UL 1666
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	110N (25 lbf.) maximum
Temperature rating:	0° to 50°C (32° to 122°F) during installation -20° to 75°C (-4° to 167°F) during operation
Cable jacket:	Flame-retardant PVC (CMR)
Cable diameter:	5.6mm (0.222 in.) nominal
Cable weight:	11 kg/305m (24 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 U/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

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

