

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

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|--------------------------------|---|
| 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

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| 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

