

# NetKey® Category 5e U/UTP Copper Cable

## SPECIFICATIONS

Category 5e cable shall meet ANSI/TIA-568.2-E Category 5e and ISO 11801 Class D channel standards. The conductors shall be 24 AWG copper insulated with HDPE. The copper conductors shall be twisted in pairs and all four pairs shall be covered by flame retardant PVC (CM) jacket.



## TECHNICAL INFORMATION

<b>Electrical performance:</b>	Certified performance in a 4-connector configuration up to 100m, meets ANSI/TIA-568.2-E Category 6 and ISO 11801 Class D channel requirements
<b>Insulation diameter:</b>	0.79mm - 0.89mm (0.031 in. - 0.035in.)
<b>Flame rating:</b>	UL 1685
<b>Conductor/insulator:</b>	23 AWG solid copper insulated with HDPE
<b>PoE compliance:</b>	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
<b>Installation tension:</b>	110N (25 lbf.) maximum
<b>Temperature rating:</b>	0° to 75°C (32° to 122°F) during installation -20° to 75°C (-4° to 167°F) during operation
<b>Cable jacket:</b>	Flame retardant PVC (CM)
<b>Cable diameter:</b>	5.2mm (0.204 in.) nominal
<b>Cable weight:</b>	8 kg/305m (18 lbs./1000 ft.)
<b>Packaging:</b>	305m (1000 ft.) easy-pay-out carton Packaged tested to ISTA procedure 1A

## KEY FEATURES AND BENEFITS

<b>Third-party tested:</b>	Cable has been tested as part of the NetKey Category 5e 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 5e standard
<b>Descending length cable markings:</b>	Easy identification of remaining cable reduces installation time and cable scrap
<b>Easy payout box:</b>	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

### NetKey U/UTP Copper Cable

**CM:** NUC5C04\*\*-ME

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

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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 DRAWINGS

