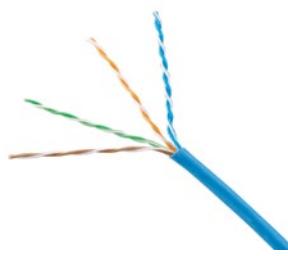# NetKey® Category 6 U/UTP Copper Cable

PANDUIT®
SPECIFICATION SHEET

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 and covered by a flame-retardant PVC (CM) jacket.

TECHNICAL INFORMATION

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100m and meets the requirements of ANSI/TIA-568.2-E Category 6 and ISO 11801 Class E channel standards at swept frequencies up to 250 MHz
Conductors/insulators:	24 AWG solid copper insulated with HDPE
Insulation diameter:	0.88mm – 0.98mm (0.035 in. – 0.039 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 (-4°F to 167°F) during operation
Cable jacket:	PVC (CM)
Cable diameter:	5.2mm (0.204 in.) nominal
Cable weight:	10 kg/305m (22 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 Category 6 U/UTP Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of ANSI/TIA-568.2-E Category 6 and ISO 11801 Class E standards
Descending length cable markings:	Easy identification of remaining cable reduces installation time and cable scrap
Reduced cable diameter:	For improved installation and termination
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

NetKey® Category 6 U/UTP Copper Cable

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

Jacket

Conductor wire

Conductor insulator

Rip cord

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