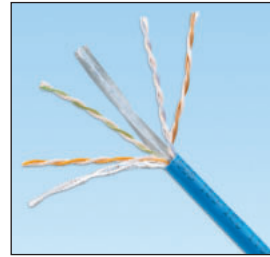# NetKey™ Category 6 UTP Copper Cable

specifications

Category 6 UTP cable meets ANSI/TIA/EIA-568-B.2-1 and IEC 61156-5 Category 6 component 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 PVC jacket.

technical information

Electrical performance:	Certified performance in a 4-connector configuration up to 100 meters, meets ANSI/TIA/EIA-568-B.2-1,ISO 11801 2nd Edition Class E and IEC 61156-5 Category 6 channel and component requirements
Conductor/insulator:	24 AWG solid copper insulated with HPDE polymer
Flame rating:	LSZH – IEC 60332-1, 60754-2, 61034 PVC (CM) – UL 1685
Installation tension:	110N (25 lbf) maximum
Temperature rating:	0° to 50°C (32° to 122°F) during installation -20° to 75°C (14° to 167°F) during operation
Cable jacket:	LSZH – Low Smoke Zero Halogen PVC (CM) – PVC
Cable diameter:	5.9mm (0.233 in.) nominal
Cable weight:	LSZH – 12.5 kg/305m (27 lbs./1000 ft.) PVC (CM) – 12 kg/305m (26 lbs./1000 ft.)
Packaging:	305m (1000 ft.) easy-pay-out box LSZH – 14.5 kg/305m (30 lbs./1000 ft.) PVC (CM) – 14 kg/305m (29 lbs./1000 ft.) Packaged tested to ISTA procedure 1A

key features and benefits

Third party tested	Cable has been tested as part of the NetKey™ Category 6 UTP Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of the following standard: ANSI/TIA/EIA-568-B.2-1 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

NetKey™ Network Components

NetKey™ UTP Copper Cable*

LSZH:	NUL6C04BU-CE
CM:	NUC6C04BU-CE

NetKey™ Category 6 UTP Jack Module

Punchdown:	NK688MIW**

NetKey™ Category 6 UTP Patch Cords – CM

Foot lengths:	NK6PC3^Y
Meter lengths:	NK6PC1M^^Y

NetKey™ Category 6 Punchdown Patch Panels

12-port:	NK6PPG12WY
24-port, 1 RU:	NK6PPG24Y
48-port, 2 RU:	NK6PPG48Y

NetKey™ Flush Mount Modular Patch Panels

Angled, 24-port, 1 RU:	NKPPA24FMY
Angled, 48-port, 2 RU:	NKPPA48FMY
Flat, 24-port, 1 RU:	NKPP24FMY
Flat, 48-port, 2 RU:	NKPP48FMY

Termination and Cable Prep Tools

JackRapid™ Termination Tool	JR-PAN-2
Conductor snipping tool:	CWST
Conductor stripping tool:	CJAST

*Standard cable colour is BU (Blue). Pallets are configured in 2 layers, 7 cartons per layer, total of 14 cartons per pallet.

**For standard colours other than Off White (IW), replace suffix with EI (Electrical Ivory), IG (International Gray), WH (White), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), or VL (Violet). Add -Q to end of part number for 25 pack convenience package.

^For standard foot lengths other than 3 feet, replace the 3 in the part number with 5, 7, 10, 14 or 20. For standard colours other than Off White, add suffix BU (Blue), RD (Red), YL (Yellow) or GR (Green) before the Y at the end of the part number. For example, the part number for a blue, Category 6, 5-foot patch cord is NK6PC5BUY.

^^For standard metre lengths other than 1 metre, replace the 1 in the part number with 2, 3, 4 or 5. For standard colors others than Off White, add suffix BU (Blue), RD (Red), YL (Yellow) or GR (Green) before Y at the end of the part number. For example, the part number for a blue, Category 6, 5-metre patch cord is NK6PC5MBUY.
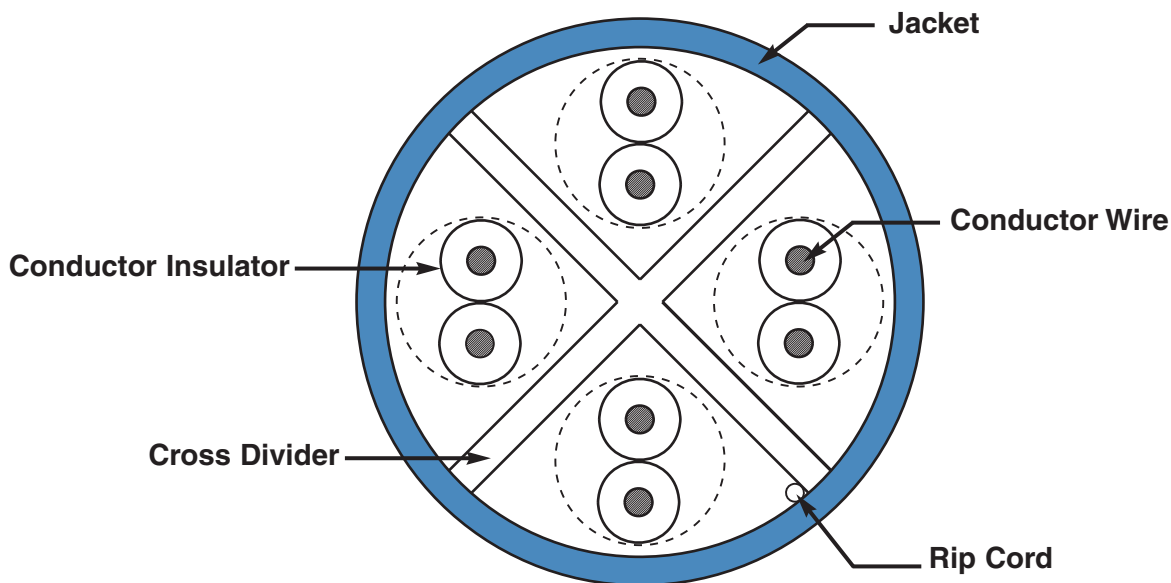
Fluke JackRapid™ Termination Tool available through distribution. To locate the local office, visit www.flukenetworks.com/contact.
JackRapid™ is a trademark of Fluke Networks.

Additional Specifications

Mechanical Test	
Ultimate Breaking Strength	>400 N (90 lbf)
Minimum Bend Radius	4 x cable diameter
Electrical Test	
DC Resistance	<9.38 Ohm per 100m (328 ft.)
DC Resistance Unbalance	<5%
Mutual Capacitance	<5.6 nF per 100m (328 ft.)
Capacitance Unbalance	<330 pF per 100m (328 ft.)
Characteristic Impedance	100 Ohm +/-15% up to 100 MHz
Nominal Velocity of Propagation (NVP)	65%

Cable Construction

Jacket

Conductor Wire

Conductor Insulator

Cross Divider

Rip Cord

For more information

Visit us at www.panduit.com

Contact Customer Service by email:
cs-emea@panduit.com

PANDUIT™