NetKey® NK6™ Category 6 U/UTP Copper Cable – Europe

Category 6 cable shall meet the ISO 11801 Class E and ANSI/TIA-568-C.2 Category 6 channel standards. The conductors shall be 24 AWG insulated with polyethylene. The copper conductors shall be twisted in pairs, separated by a cross divider and covered by a LSFRZH jacket.

technical information

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100 meters and meets ISO 11801 Class E and ANSI/TIA-568-C.2 Category 6 standards at swept frequencies up to 250MHz.
Conductors/ insulators:	24 AWG solid copper insulated with polyolefin
Flame rating:	EN 50575: Euroclass B2ca-s1a-d1-a1
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	110 N (25 lbf)
Temperature rating:	-20º C to 75º C (-4º F to 167º F) during operation 0º C to 50º C (32º F to 122º F) during installation
Cable jacket:	LSFRZH
Cable diameter:	5.9mm (0.235 inch) nominal
Cable weight:	12kg/305m (26 lbs./1000 ft.)
Packaging:	305m (1000 ft.) easy payout carton

key features and benefits

Easy payout carton	Ensures proper performance and provides quick installation
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 standards: ISO 11801 Class E and ANSI/TIA-568-C.2 Category 6
Descending length cable marking	Easy indentification of remaining cable reduces installation time and cable scrap
Robust design	Cross divider separates twisted pairs for robust cable design

applications

NK6™ U/UTP Copper Cable is a component of the Panduit NK6™ U/UTP Copper Cabling System. This end-to-end system provides Gigabit Ethernet performance with usable bandwidth beyond 250MHz. With certified performance the ISO 11801 Class E and ANSI/TIA-568-C.2 Category 6 standards, this system will support the following applications:

* Ethernet 10BASE-T
*100BASE-T (Fast Ethernet)
*1000BASE-T (Gigabit Ethernet)

NetKey® Network Components

NetKey® UTP Copper Cable

LSFRZH:	NUW6C04**-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® Category 6 All Molded Punchdown Patch Panels

24-port, 1 RU:	NK6PP24P
48-port, 2 RU:	NK6PP48P

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

NetKey® Category 6 All Molded Modular Patch Panels

24-port, 1 RU:	NKPP24P
48-port, 2 RU:	NKPP48P

Termination and Cable Prep Tools

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

** Part number available in WH (White). For additional colors, please contact Panduit Customer Service.

*For standard colors 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 colors 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 meter lengths other than 1 meter, 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-meter patch cord is NK6PC5MBUY.
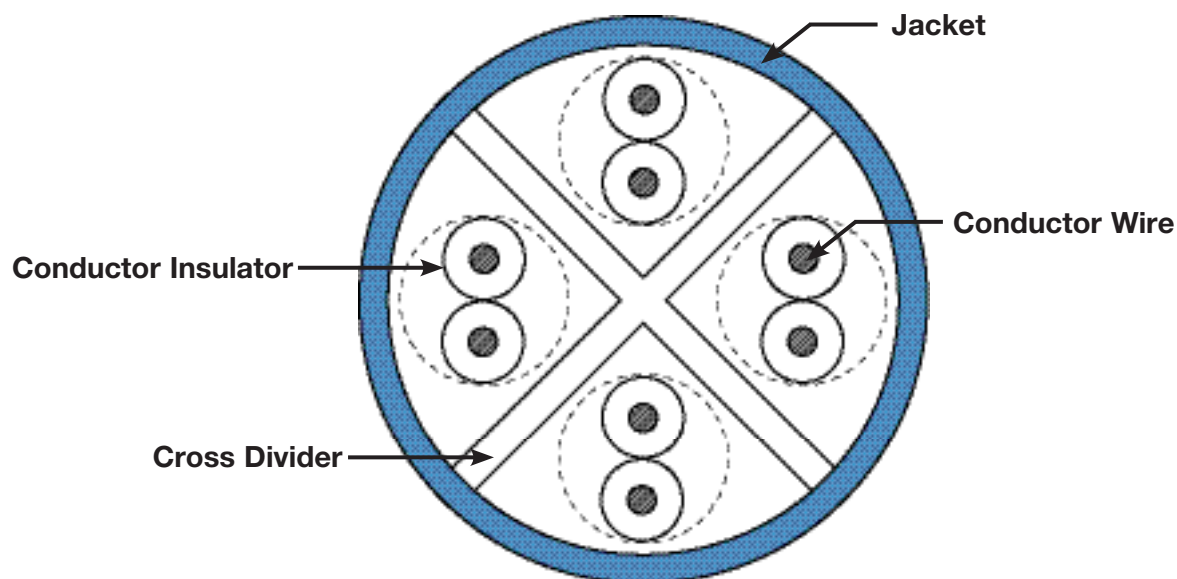
Fluke JackRapid™ Termination Tool available through distribution. To locate the local office, visit www.flukenetworks.com/contact. JackRapid™ is a trademark of Fluke Networks.

NetKey® NK6™ Category 6 U/UTP Copper Cable – Europe

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%

cable construction

Jacket

Conductor Wire

Conductor Insulator

Cross Divider

For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300

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