

NetKey™ Category 5e U/UTP Copper Cable

PANDUIT™

DATA SHEET

Category 5e cable meets ANSI/TIA-568-C.2 Category 5e and ISO 11801 Class D channel standards. The conductors are 24 AWG copper insulated with polyethylene polymer. The copper conductors are twisted in pairs and all four pairs are covered by a flame-retardant PVC (CM) jacket.



technical information

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100 meters and meets the requirements of ANSI/TIA-568-C.2 Category 5e and ISO 11801 Class D standards at swept frequencies up to 100 MHz
Conductor/insulator:	24 AWG solid copper insulated with PE
Flame rating:	UL 1685
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
Installation tension:	110N (25 lbf.) maximum
Temperature rating:	0° to 50°C (32° to 122°F) during installation -10° to 60°C (14° to 140°F) during operation
Cable jacket:	PVC
Cable diameter:	4.8mm (0.190 in.) nominal
Cable weight:	8.5 kg/305m (18.7 lbs./1000 ft.)
Packaging:	305m (1000 ft.) easy-payout carton Package tested to ISTA Procedure 1A

key features and benefits

Third party tested	Cable has been tested as part of the NetKey™ Category 5e UTP Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of the following standards: ANSI/TIA-568-C.2 Category 5e and ISO 11801 Class D; Anatel certificate of homologation
Descending length cable markings	Easy identification of remaining cable reduces installation time and cable scrap
Easy-payout carton	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
- Token ring 4/16

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NetKey™ Network Components

NetKey™ UTP Copper Cable

CM: NUC5C04*-BY

NetKey™ Category 5e UTP Jack Module

Leadframe: NK5E88MIWY**

NetKey™ Category 5e UTP Patch Cords – CM

Meter lengths: NK5EPC1M^Y

NetKey™ Category 5e Punchdown Patch Panels

12-port: NK5EPPG12WY

24-port, 1 RU: NK5EPPG24Y

48-port, 2 RU: NK5EPPG48Y

NetKey™ Category 5e All Molded Punchdown Patch Panels

24-port, 1 RU: NK5EPP24P

48-port, 2 RU: NK5EPP48P

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 5e All Molded Modular Patch Panels

24-port, 1 RU: NKPP24P

48-port, 2 RU: NKPP48P

Termination and Cable Prep Tools

Conductor snipping tool: CWST

Conductor stripping tool: CJAST

*To designate color, add suffix BU (Blue), WH (White) or IG (International Gray). For additional cable colors, contact customer service.

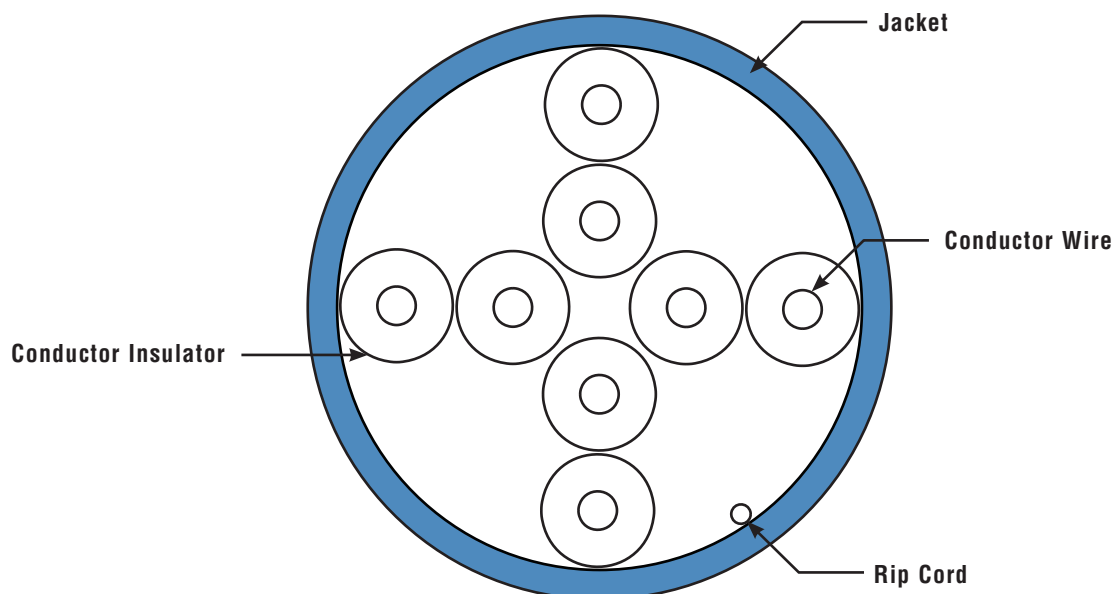
**For standard colors other than Off White (IW), replace suffix with EI (Electrical Ivory), IG (International Gray), WH (White), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green) or VL (Violet). Add -Q to end of part number for 25 pack convenience package.

^For standard meter lengths other than 1 meter, replace the 1 in the part number with 2, 3, 4 or 5. For standard colors other 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 5e, 5-meter patch cord is NK5EPC5MBUY.

additional specifications

Mechanical Test	
<i>Ultimate Breaking Strength</i>	>400 N (90 lbf.)
<i>Minimum Bend Radius</i>	4 x cable diameter
Electrical Test	
<i>Nominal Velocity of Propagation (NVP)</i>	70%

cable construction



WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA
Markham, Ontario
cs-cdn@panduit.com
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
cs-emea@panduit.com
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
cs-ap@panduit.com
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
cs-japan@panduit.com
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Guadalajara, Mexico
cs-la@panduit.com
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
cs-aus@panduit.com
Phone: 61.3.9794.9020

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

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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