

# NetKey® Category 5e U/UTP Copper Cable

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



## technical information

|                                |                                                                                                                                                                                                                        |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Electrical performance:</b> | Certified performance in a 4-connector configuration up to 100 meets ANSI/TIA-568-C.2 Category 5e and ISO 11801 2nd Edition Class D channel requirements                                                               |
| <b>Conductor/insulator:</b>    | 24 AWG solid copper insulated with HDPE polymer                                                                                                                                                                        |
| <b>Flame rating:</b>           | LSZH – IEC 60332-1, 60754-1, 60754-2, 61034-2, EN50575: Euroclass Eca<br>PVC (CM) – UL 1685 EN 50575: Euroclass Eca<br>PVC (CMR) – UL 1666                                                                             |
| <b>PoE compliance:</b>         | Meets IEEE 802.3af and IEEE 802.3at for PoE applications                                                                                                                                                               |
| <b>Installation tension:</b>   | 110N (25 lbf.) maximum                                                                                                                                                                                                 |
| <b>Temperature rating:</b>     | 0° to 50°C (32° to 122°F) during installation -20° to 60°C (14° to 140°F) during operation                                                                                                                             |
| <b>Cable jacket:</b>           | LSZH – Low Smoke Zero Halogen<br>CM – PVC<br>CMR – Flame retardant PVC                                                                                                                                                 |
| <b>Cable diameter:</b>         | LSZH – 4.7mm (0.187 in.) nominal<br>PVC (CM), PVC (CMR) – 4.6mm (0.184 in.) nominal                                                                                                                                    |
| <b>Cable weight:</b>           | LSZH – 9 kg/305m (20 lbs./1000 ft.)<br>PVC (CM) – 8 kg/305m (18 lbs./1000 ft.)<br>PVC (CMR) – 8.5 kg/305m (19 lbs./1000 ft.)                                                                                           |
| <b>Packaging:</b>              | Packaging: 305m (1000 ft.) easy-pay-out box<br>LSZH – 11 kg/305m (23 lbs./1000 ft.)<br>PVC (CM) – 10 kg/305m (21 lbs./1000 ft.)<br>PVC (CMR) – 10.5 kg/305m (22 lbs./1000 ft.)<br>Packaged tested to ISTA procedure 1A |

## key features benefits

|                                         |                                                                                                                                                                                                                                        |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Third party tested</b>               | 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 standard: ANSI/TIA-568-C.2 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

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## DATA SHEET

### NetKey® Network Components

#### NetKey® UTP Copper Cable

|              |              |
|--------------|--------------|
| <b>LSZH:</b> | NUL5C04BU-C* |
| <b>CM:</b>   | NUC5C04BU-C* |
| <b>CMR:</b>  | NUR5C04BU-C  |

#### NetKey® Category 5e UTP Jack Module

|                   |              |
|-------------------|--------------|
| <b>Punchdown:</b> | NKP5E88MIW** |
| <b>Leadframe:</b> | NK5E88MIWY** |

#### NetKey® Category 5e UTP Patch Cords – CM

|                       |             |
|-----------------------|-------------|
| <b>Foot lengths:</b>  | NK5EPC3^Y   |
| <b>Meter lengths:</b> | NK5EPC1M^^Y |

#### NetKey® Category 5e Punchdown Patch Panels

|                       |             |
|-----------------------|-------------|
| <b>12-port:</b>       | NK5EPPG12WY |
| <b>24-port, 1 RU:</b> | NK5EPPG24Y  |
| <b>48-port, 2 RU:</b> | NK5EPPG48Y  |

#### NetKey® Category 5e All Molded Punchdown Patch Panels

|                       |           |
|-----------------------|-----------|
| <b>24-port, 1 RU:</b> | NK5EPP24P |
| <b>48-port, 2 RU:</b> | NK5EPP48P |

#### NetKey® Flush Mount Modular Patch Panels

|                               |            |
|-------------------------------|------------|
| <b>Angled, 24-port, 1 RU:</b> | NKPPA24FMY |
| <b>Angled, 48-port, 2 RU:</b> | NKPPA48FMY |
| <b>Flat, 24-port, 1 RU:</b>   | NKPP24FMY  |
| <b>Flat, 48-port, 2 RU:</b>   | NKPP48FMY  |

#### NetKey® Category 5e All Molded Modular Patch Panels

|                       |         |
|-----------------------|---------|
| <b>24-port, 1 RU:</b> | NKPP24P |
| <b>48-port, 2 RU:</b> | NKPP48P |

#### Termination and Cable Prep Tools

|                                     |          |
|-------------------------------------|----------|
| <b>JackRapid™ Termination Tool:</b> | JR-PAN-2 |
| <b>Conductor snipping tool:</b>     | CWST     |
| <b>Conductor stripping tool:</b>    | CJAST    |

\*For standard cable colors other than BU (Blue), replace BU in part number with WH (White) or IG (International Gray). Contact customer service for region availability. Standard pallets are configured in 4 layers, 9 cartons per layer, total of 36 cartons per pallet. Add E to end of part number for European pallets which are configured in 4 layers, 6 cartons per layer, total of 24 cartons per pallet.

\*\*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 5e 5-foot patch cord is NK5EPC5BUY.

^^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.

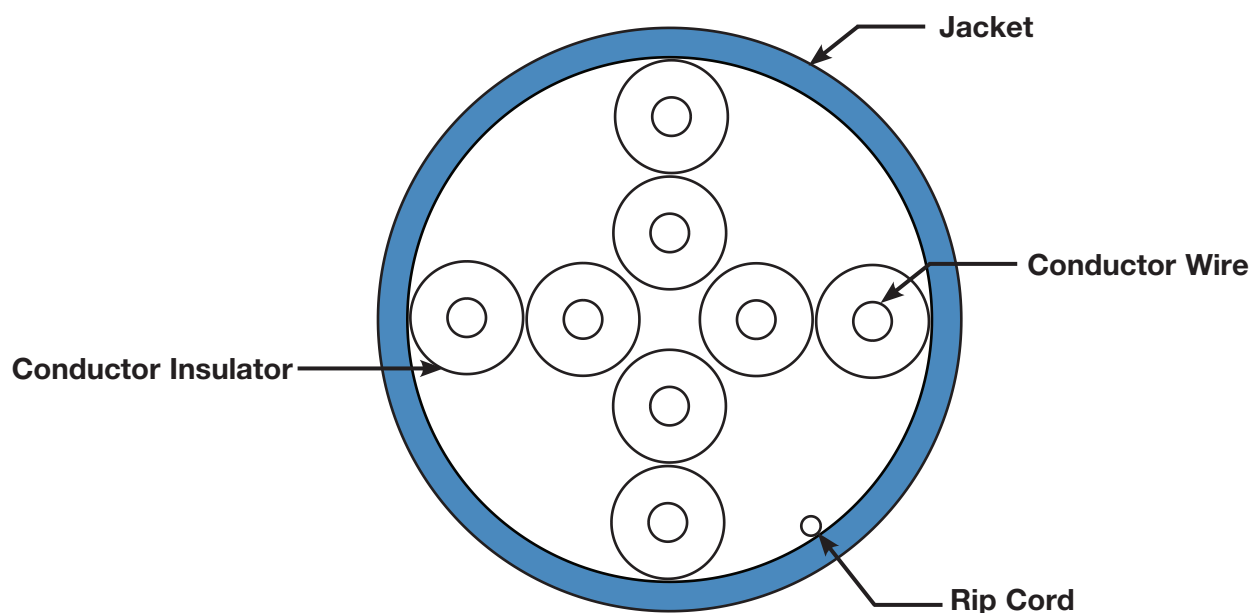
Fluke JackRapid- Termination Tool available through distribution. To locate the local office, visit [www.flukenetworks.com/contact](http://www.flukenetworks.com/contact). JackRapid- is a trademark of Fluke Networks.

# NetKey® Category 5e 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%                |

## cable construction



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