

# NetKey® Category 6 U/UTP Copper Cable

Europe

**PANDUIT**™  
SPECIFICATION SHEET

## SPECIFICATIONS

Category 6 cable shall meet the ISO 11801 and ANSI/TIA-568.2-D 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

<b>Electrical performance:</b>	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds ISO 11801 Class E and ANSI/TIA-568.2-D Category 6 standards at swept frequencies up to 250MHz
<b>Cable diameter:</b>	6.3mm (0.250 in.) nominal
<b>Conductors/insulators:</b>	24 AWG solid copper insulated with polyolefin
<b>Insulation diameter:</b>	0.89mm - 0.94mm (0.035 in. - 0.037 in.)
<b>Flame rating:</b>	EN 50575: Euroclass Cca-s1a-d0-a1
<b>PoE compliance:</b>	Meets IEEE 802.3af, IEEE 802.3at and 802.3bt for PoE applications
<b>Installation tension:</b>	110N (25 lbf) maximum
<b>Temperature rating:</b>	0°C to 50°C (32°F to 122°F) during installation -20°C to 75°C (-4°F to 167°F) during operation
<b>Cable jacket:</b>	LSFRZH (Low Smoke Fire Retardant Zero Halogen)
<b>Cable weight:</b>	14 kg/305m (31 lbs./1000 ft.)
<b>Packaging:</b>	305m (1000 ft.) easy payout carton Packaged tested to ISTA procedure 1A

## KEY FEATURES AND BENEFITS

<b>Third party tested:</b>	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 standard: ISO 11801 Class E and ANSI/TIA-568.2-D Category 6 standard
<b>Easy payout carton:</b>	Ensures proper performance and provides quick installation
<b>Descending length cable markings:</b>	Easy identification of remaining cable reduces installation and cable scrap
<b>Cross divider:</b>	Separates twisted pairs for robust cable performance
<b>Tested beyond the Standards:</b>	Cable has been characterized to 350MHz, 100MHz above the standard

## APPLICATIONS

NetKey U/UTP Copper Cable is a component of the NetKey U/UTP Copper Cabling System. This end-to-end system provides Gigabit Ethernet performance with usable bandwidth beyond 250MHz. With certified performance to the ANSI/TIA-568.2-D Category 6 and ISO 11801 Class E standards, this system will support the following applications:

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

### NetKey U/UTP Copper Cable

**LSZH:** NUY6C04\*\*-FE

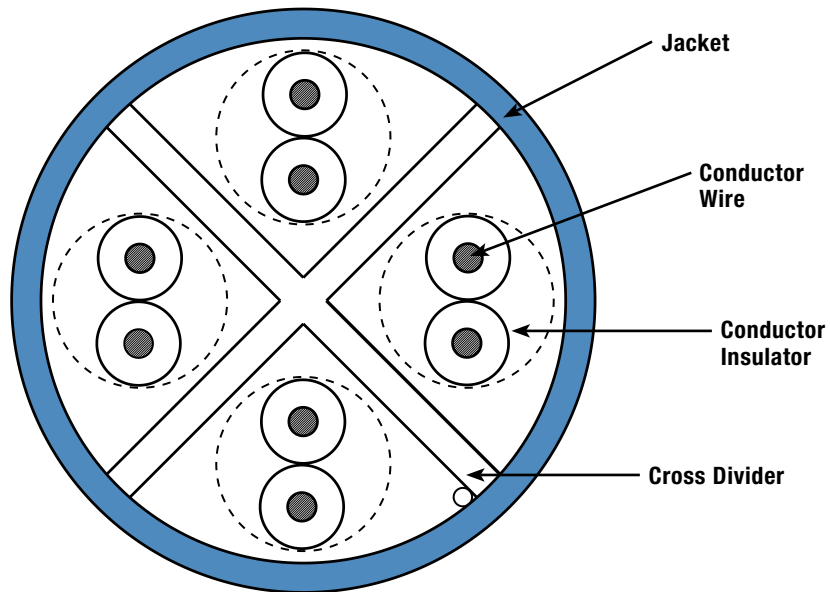
\*\*Colors: BU (Blue). Contact Customer Service for additional color availability.

# NetKey® Category 6 U/UTP Copper Cable

## ADDITIONAL SPECIFICATIONS

Mechanical Testing	
Ultimate breaking strength	>400 N (90 lbf)
Minimum bend radius	4x cable diameter
Engineering Testing	
Nominal Velocity of Propagation (NVP)	64% nominal
Operating voltage, maximum	80V

## ENGINEERING DRAWING



### WORLDWIDE SUBSIDIARIES AND SALES OFFICES

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