# NetKey™ NK6™ Shielded Category 6 F/UTP Copper Cable

Latin America and Asia Pacific

PANDUIT®
SPECIFICATION SHEET

SPECIFICATIONS

Category 6 cable shall exceed ISO 11801 Class E and ANSI/TIA-568.2-D Category 6 channel standards. The conductors shall be 24 AWG construction with polyethylene (PE) insulation. The copper conductors shall be twisted in pairs, separated by a cross divider, and all four pairs shall be covered with an overall foil and a flame retardant CM (PVC) jacket.
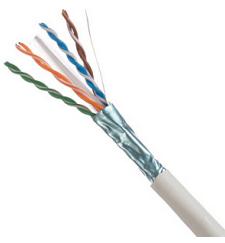
TECHNICAL INFORMATION

Electrical performance:	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 250 MHz
Conductors/insulators:	24 AWG bare copper wire covered with polyethelyne (PE) insulation
Insulation diameter:	0.95mm – 1.08mm (0.037 in. – 0.043 in.)
Flame rating:	UL 1685
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	25 lbf (110N) maximum
Cable jacket:	Flame retardant PVC
Cable diameter:	6.9mm (0.272 in.)
Cable weight:	15 kg/305m (33 lbs./1000 ft.)
Temperature rating:	0°C to 50°C (32°F to 122°F) during installation -20°C to 75°C (-4°F to 167°F) during operation
Packaging:	305m (1000 ft.) on a reel Packaged tested to ISTA Procedure 1A

KEY FEATURES AND BENEFITS

Descending length cable markings:	Easy identification of remaining cable reduces installation time and cable scrap
Overall foil:	Provides superior structural integrity and reduces external interference to ensure exceptional cable performance at all swept frequencies
Third-party tested:	Cable has been tested as part of the NetKey NK6 Category 6 F/UTP Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of ISO 11801 Class E and ANSI/TIA-568.2-D Category 6 standards
Reel packaging:	Ensures proper performance and provides quick installation

APPLICATIONS

NetKey NK6 Shielded Copper Cable is a component of the NetKey NK6 Shielded Copper Cabling System. Interoperable and backwards compatible, this end-to-end system provides design flexibility to protect network investments well into the future.With certified performance to the ISO 11801 Class E and ANSI/TIA-568.2-D Category 6 standards, this system is ideal for today's high performance workstations and will support the following applications:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet), 1GBASE-T
- 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM
- Token ring 4/16

ADDITIONAL SPECIFICATIONS

Mechanical Test	
Ultimate breaking strength:	> 400 N (90 lbf)
Minimum bend radius:	8 x cable diameter
Electrical Test	
Nominal velocity of propagation (NVP):	65% nominal
Operating voltage, maximum:	80 V

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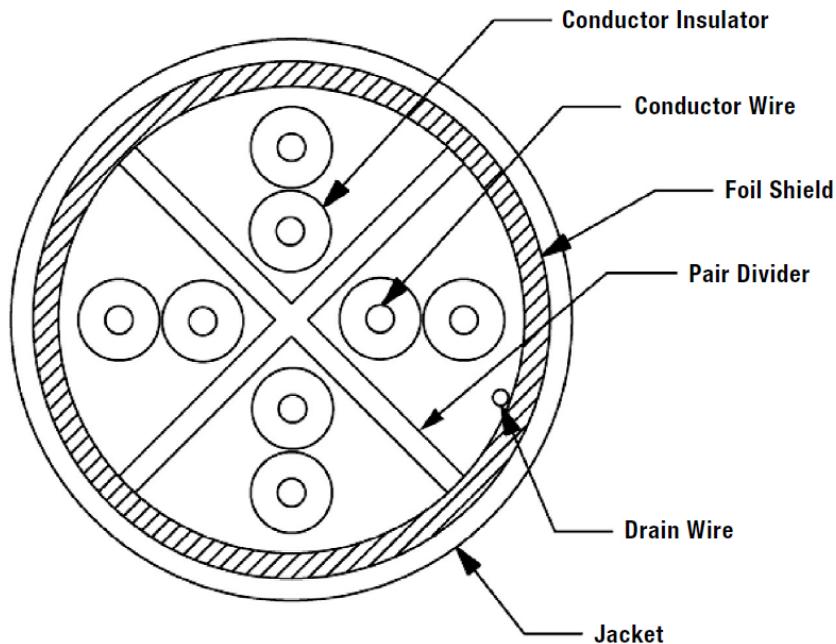
For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information
Visit us at www.panduit.com
Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300