

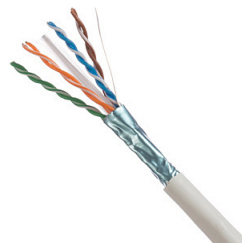
# Shielded Keystone Category 6A F/UTP Copper Cable

Latin America,  
Europe, Middle  
East, Africa,  
Asia Pacific

**PANDUIT**<sup>TM</sup>  
SPECIFICATION SHEET

## SPECIFICATIONS

Category 6A cable shall exceed ISO 11801 Class E<sub>A</sub> and ANSI/TIA-568.2-E Category 6A 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 (LSZH) jacket.



## Shielded Keystone Category 6A F/UTP Copper Cable

LSZH: NFL6X04\*\*-FEG

\*\*Colors: BU (Blue), WH (White), RD (Red), OR (Orange), YL (Yellow), GR (Green), VL (Violet), IG (International Gray), orBL (Black)

## TECHNICAL INFORMATION

<b>Electrical performance:</b>	Certified channel performance in a 4-connector configuration up to 100m and exceeds ISO 11801 Class E <sub>A</sub> and ANSI/TIA-568.2-E Category 6A standards at swept frequencies up to 500 MHz
<b>Conductors/insulators:</b>	24 AWG bare copper wire covered with polyethylene (PE) insulation
<b>Insulation diameter:</b>	0.95mm – 1.08mm (0.037 in. – 0.043 in.)
<b>Flame rating:</b>	IEC 60332-1, IEC 60332-3-22, IEC 60754, IEC 61034, EN 50575 Euroclass: Dca-s2,d2,a1
<b>PoE compliance:</b>	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
<b>Installation tension:</b>	110 N (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>	Flame retardant LSZH
<b>Cable diameter:</b>	6.9mm (0.272 in.)
<b>Cable weight:</b>	15 kg/305m (33 lbs./1000 ft.)
<b>Packaging:</b>	305m (1000 ft.) on a reel Packaged tested to ISTA Procedure 1A

## KEY FEATURES AND BENEFITS

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

## APPLICATIONS

Shielded Keystone Copper Cable is a component of the Shielded Keystone 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<sub>A</sub> and ANSI/TIA-568.2-E Category 6A channel 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), 10GBASE-T
- 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM
- Token ring 4/16

# Shielded Keystone Category 6A F/UTP Copper Cable

## 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 velocity, maximum:	80 V

## ENGINEERING DRAWING

