

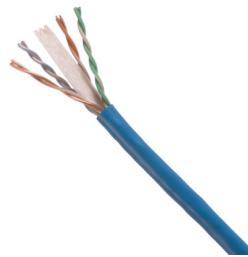
# TX6™ ER Category 6 U/UTP 22 AWG Copper Cable

North America (NA)

**PANDUIT®**  
SPECIFICATION SHEET

## SPECIFICATIONS

Category 6 cable shall meet ANSI/TIA-568-2.D Category 6 component Standard. The conductors shall be 22 AWG construction with FEP insulation. The copper conductors shall be twisted in pairs, separated by tape divider, and covered by a low smoke, flame-retardant (CMP) PVC jacket. Provides less voltage drop, increased current carrying capacity and reduced heat generation for PoE applications. The cable shall exceed the 100-meter distance for security, ICT, building automation, and IoT applications.



## TECHNICAL INFORMATION

<b>Electrical performance:</b>	Certified channel performance in a 4-connector configuration up to 100 meters and meets ANSI/TIA-568-2.D Category 6 Standard at swept frequencies up to 250MHz Certified component performance up to 100 meters and meets the component requirements of ANSI/TIA-568-2.D Category 6 component Standard at swept frequencies up to 250 MHz
<b>Standards compliance:</b>	UL Listed CMP-LP (0.7A)
<b>Conductors/insulators:</b>	22 AWG solid copper covered by FEP insulation
<b>Insulation diameter:</b>	0.045 in. - 0.050 in. (1.14mm - 1.27mm)
<b>Flame rating:</b>	Plenum - NFPA 262 and CSA FT-6
<b>PoE compliance:</b>	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
<b>Installation tension:</b>	25 lbf (110N) maximum
<b>Temperature rating:</b>	32°F to 122°F (0°C to 50°C) during installation -4°F to 221°F (-20°C to 105°C) during operation
<b>Cable jacket:</b>	Low smoke, flame-retardant (CMP) PVC
<b>Cable diameter:</b>	0.243 in. (6.1mm) nominal
<b>Cable weight:</b>	38 lbs./1000 ft. (18 kg/305m)
<b>Packaging:</b>	1000 ft. (305m) in an easy payout carton Package tested to ISTA Procedure 1A

## KEY FEATURES AND BENEFITS

<b>Longer runs for labor and material savings:</b>	Provides power and bandwidth at extended distances of 150 meters based on the IEEE 802.3 application standards. Maximum distance is subject to change based on manufacturers equipment and varying environmental conditions.
<b>High powered applications:</b>	Larger AWG conductors for higher power applications (reduced heat generation, higher maximum current carrying capabilities, improved attenuation).
<b>Limited Power (LP) Listing:</b>	Complies with Category 6 requirements up to a 100-meter channel with a 0.7A LP certification.
<b>Extended temperature range:</b>	Allows operation in 105°C (221°F) ambient environment providing error-free performance in high-density cabinets and large cable bundles running PoE+ or PoE++ applications
<b>Reelex™ packaging:</b>	Compact carton ensures proper performance and provides quick installation
<b>Packaging options:</b>	Available in longer length packaging

## APPLICATIONS

Interoperable and backward compatible, the TX6 U/UTP Cabling System provides design flexibility to protect network investments well into the future. With certified performance to the ANSI/TIA-568-2.D Category 6 Standards for a 100 meter channel, this system will support the following applications:

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



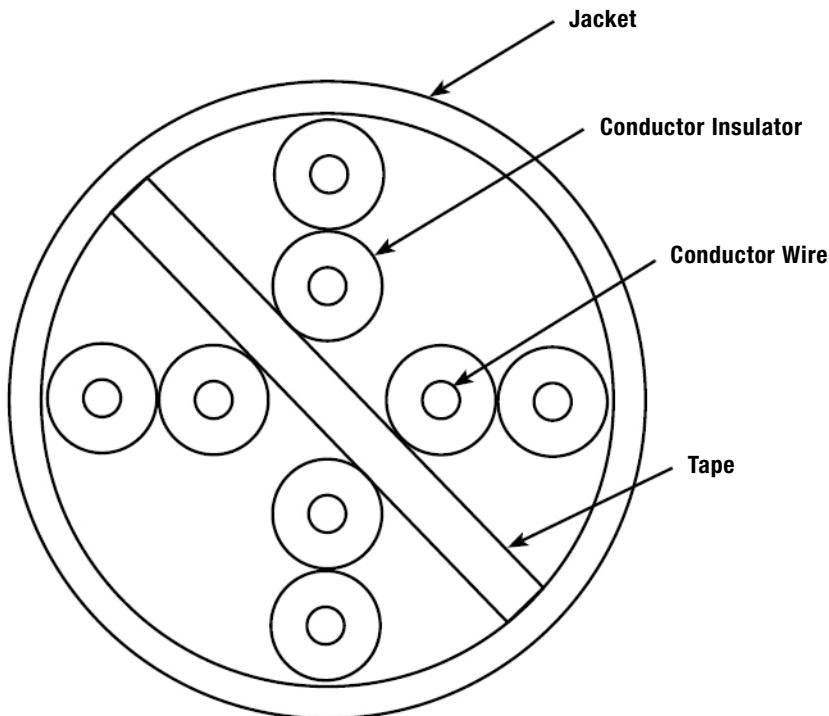
All listed part numbers are compliant with the U.S. Trade Agreements Act (TAA) for purchases shipped to customers in the United States.

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## ADDITIONAL INFORMATION

Mechanical Testing	
Ultimate Breaking Strength	>400 N (90 lbf)
Minimum Bend Radius	4 x cable diameter
Engineering Testing	
Nominal Velocity of Propagation (NVP)	74% nominal
Operating Voltage, Maximum	80 V

## ENGINEERING DRAWING



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