

# TX6-28™ Category 6 U/UTP 28 AWG Copper Cable – North America

## specifications

Category 6 cable shall be constructed with 28 AWG copper conductors with FEP (CMP) insulation. The copper conductors shall be twisted in pairs, separated by a cross divider and covered by a low smoke, flame-retardant (CMP) PVC jacket. This innovative small cable diameter design allows for improved pathway capacity, tighter bend radius and provides flexibility when installing.



## technical information

<b>Electrical performance:</b>	Certified channel performance in a 4-connector configuration up to 50 meters and exceeds ANSI/TIA-568-C.2 Category 6 standard at swept frequencies up to 250 MHz. Note: The cable utilizes 28 AWG conductors which does not meet the 24 to 22 AWG conductor size of horizontal cable in ANSI/TIA-568-C.2, resulting in increased attenuation which de-rates the maximum channel distance to 50 meters (164 feet). Proper termination requires the use of jack CJT688TG*.
<b>Cable diameter:</b>	0.140 in (3.5mm) nominal
<b>Conductor/insulator:</b>	28 AWG bare copper covered by FEP insulation
<b>Flame rating:</b>	NFPA 262
<b>PoE compliance:</b>	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
<b>Installation tension:</b>	18 lbf (80N) maximum
<b>Temperature rating:</b>	32°F to 122°F (0°C to 50°C) during installation -4°F to 167°F (-20°C to 75°C) during operation and storage
<b>Cable jacket:</b>	Plenum – low smoke, flame retardant PVC
<b>Cable weight:</b>	10 lbs/kft (4.5kg/305m) nominal
<b>Packaging:</b>	1000 ft. (305m) in an EZ-Brake™ reel-in-a-box Package tested to ISTA Procedure 1A

## key features and benefits

<b>Third party tested</b>	Cable has been tested as part of the TX6-28™ Category 6 U/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 6
<b>Smaller cable diameter and round flexible design</b>	Allows efficient use of pathways and spaces by improving fill capacity and reducing required bend radius resulting in an easier cable routing and management
<b>Cross-divider</b>	Separates pairs for exceptional cable performance
<b>Extended temperature range</b>	Allows operation in 75° C (167° F) ambient environment providing error-free performance in high density cabinets and large cable bundles for running PoE plus applications
<b>EZ-Brake™ reel-in-a-box</b>	Ensures proper performance and provides quick installation
<b>Descending length cable markings</b>	Easy identification of remaining cable reduces installation time and cable scrap

## applications

TX6-28™ Category 6 U/UTP Copper Cable is a component of the Panduit TX6-28™ Copper Cabling System. Interoperable and backward compatible, this end-to-end system provides design flexibility to protect network investments well into the future.

With certified channel performance to the ANSI/TIA-568-C.2 Category 6 standard up to 50 meters, 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

### TX6-28™ U/UTP Copper Cabling System

### TX6-28™ U/UTP Copper Cable

**Plenum:** PUP6C2804\*\*-U

### Category 6 28 AWG Patch Cord

**Patch cord:** UTP28SP^\*\*

### Category 6 28/30 AWG Jack Module

**Jack module:** CJT688TG\*

### 8-Position, 8-Wire 28 AWG Modular Plug

**Modular plug:** SP628-C

### Cable Prep Tools

**Wire snipping tool:** CWST

**Wire stripping tool:** CJUST

\*\*To designate cable color, add suffix BU (Blue) or WH (White). For additional cable colors, contact Customer Service.

^For standard patch cord colors, add suffix IW (Off White) BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), GY (Gray), PK (Pink), or VL (Violet).

\*\*For patch cord lengths 1 to 50 feet (increments of one foot), and 55 to 150 feet (increments of five feet), change the length designation in the part number to the desired length. For lengths 0.5 to 10 meters (increments of half meter), 11 to 20 meters (increments of one meter), and 25 to 50 meters (increments of five meters), change the length designation in the part number to the desired length.

\*To designate color for jacks, add suffix IW (Off White), EI (Electric Ivory), IG (International gray), AW (Arctic White), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet).

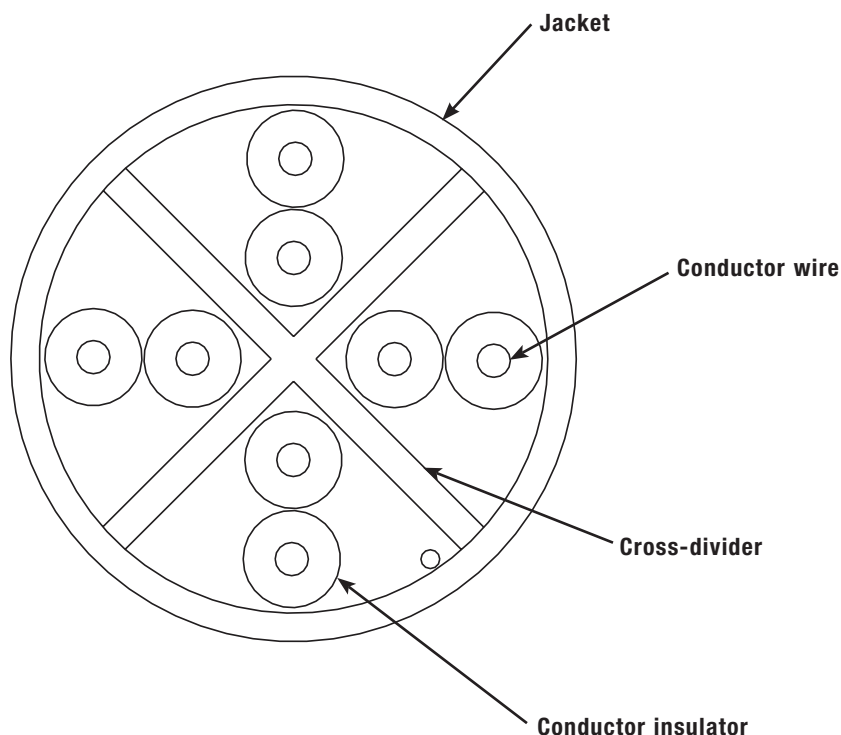
Visit [www.panduit.com](http://www.panduit.com) for connectivity components

# TX6-28™ Category 6 U/UTP 28 AWG Copper Cable – NA

## additional specifications

Mechanical Test	
Ultimate Breaking Strength	65 lbf (289 N)
Minimum Bend Radius	0.6 inches (15 mm)
Electrical Test	
Nominal Velocity of Propagation (NVP)	74%
Operating Voltage, Maximum	80V

## cable construction



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