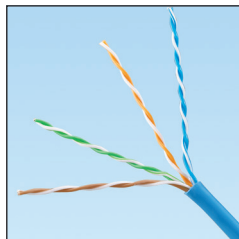


# TX6™ Category 6 U/UTP Copper Cable

## specifications

Category 6 cable shall meet ANSI/TIA-568-C.2 Category 6 component standard. The conductors shall be 23 AWG construction with FEP/polyolefin (CMP) or polyolefin (CMR) insulation. The copper conductors shall be twisted in pairs and covered by a low smoke, flame-retardant (CMP) PVC jacket or a flame-retardant (CMR) PVC jacket.



## technical information

|                                |                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Electrical performance:</b> | Certified channel performance in a 4-conductor configuration up to 100 meters and meets ANSI/TIA-568-C.2 Category 6 standard at swept frequencies up to 250MHz<br><br>Certified component performance up to 100 meters and meets the component requirements of ANSI/TIA-568-C.2 Category 6 component standard at swept frequencies up to 250 MHz |
| <b>Conductors/insulators:</b>  | Plenum – 23 AWG solid copper covered by FEP/polyolefin insulation<br>Riser – 23 AWG solid copper covered by polyolefin insulation                                                                                                                                                                                                                |
| <b>Flame rating:</b>           | Plenum – NFPA 262<br>Riser – UL1666                                                                                                                                                                                                                                                                                                              |
| <b>PoE compliance:</b>         | Meets IEEE 802.3af and IEEE 802.3at 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<br>-4°F to 167°F (-20°C to 75°C) during operation (Riser)<br>-4°F to 167°F (-20°C to 75°C) during operation (Plenum)                                                                                                                                                                             |
| <b>Cable jacket:</b>           | Plenum – low smoke, flame-retardant PVC<br>Riser – flame-retardant PVC                                                                                                                                                                                                                                                                           |
| <b>Cable diameter:</b>         | Plenum – 0.224 in. (5.7mm) nominal<br>Riser – 0.210 in. (5.3mm) nominal                                                                                                                                                                                                                                                                          |
| <b>Cable weight:</b>           | Plenum – 29 lbs./1000 ft. (13 kg/305m)<br>Riser – 22 lbs./1000 ft. (10 kg/305m)                                                                                                                                                                                                                                                                  |
| <b>Packaging:</b>              | 1000 ft. (305m) in an easy payout carton<br>Package tested to ISTA Procedure1A                                                                                                                                                                                                                                                                   |

## key features and benefits

|                                         |                                                                                                                                                                                                                     |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Third party tested</b>               | Cable has been tested as part of the Category 6 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>Descending length cable markings</b> | Easy identification of remaining cable reduces installation time and cable scrap                                                                                                                                    |
| <b>Tested beyond the standards</b>      | Cable has been characterized to 350 MHz, 100 MHz above the standard                                                                                                                                                 |
| <b>Easy payout carton</b>               | Ensures proper performance and provides quick installation                                                                                                                                                          |

## applications

Interoperable and backward compatible, the Panduit TX6™ Cabling System provides design flexibility to protect network investments well into the future. With certified performance to the ANSI/TIA-568-C.2 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), 10GBASE-T (10 Gigabit Ethernet over limited distances as specified in the industry 10GBASE-T standards)
- 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM
- Token Ring 4/16

**www.panduit.com**

### Category 6 U/UTP Copper Cable

|                |            |
|----------------|------------|
| <b>Plenum:</b> | PUP6C04*-U |
| <b>Riser:</b>  | PUR6C04*-U |

### Cable Prep Tools

|                             |       |
|-----------------------------|-------|
| <b>Wire snipping tool:</b>  | CWST  |
| <b>Wire stripping tool:</b> | CJAST |

\*For standard cable colors, add suffix BU (Blue), WH (White), RD (Red), OR (Orange), YL (Yellow), GR (Green), VL (Violet), IG (International Gray), or BL (Black). Cable available in a standard pallet configuration of 36 cartons per pallet.

For other colors or pallet configurations, contact customer service.

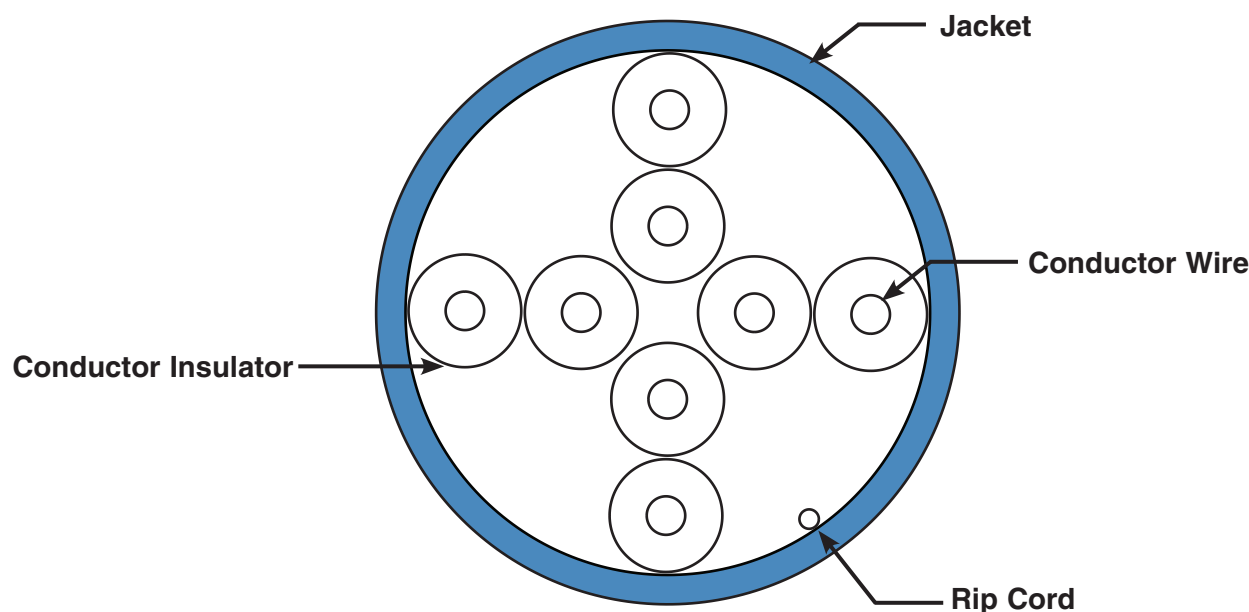
Visit [www.panduit.com](http://www.panduit.com) for connectivity components.

# TX6™ Category 6 U/UTP Copper Cable

## additional specifications

| Mechanical Test                              |                        |
|----------------------------------------------|------------------------|
| <i>Ultimate Breaking Strength</i>            | >90 lbf (400N)         |
| <i>Minumum Bend Radius</i>                   | 4 x cable diameter     |
| Electrical Test                              |                        |
| <i>Nominal Velocity of Propagation (NVP)</i> | CMP – 72%<br>CMR – 69% |
| <i>Operating Voltage, Maximum</i>            | 80V                    |

## cable construction



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