TX6000™ Enhanced Category 6 UTP Copper Cable

**Specifications**

Category 6 cable shall exceed ANSI/TIA-568-C.2 and IEC 61156-5 Category 6 component standards. The conductors shall be 23 AWG construction with FEP/polyolefin (CMP) or polyolefin (CMR) insulation. The copper conductors shall be twisted in pairs, separated by a cross-divider and covered by a low smoke, flame-retardant (CMP) jacket or a flame-retardant (CMR) jacket.

**Technical Information**

<table>
<thead>
<tr>
<th>Electrical performance:</th>
<th>Certified channel performance in a 4-connector configuration up to 100 meters and exceeds ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E standards at swept frequencies up to 250 MHz. Certified component performance up to 100 meters and exceeds the component requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 6 component standards at swept frequencies up to 250 MHz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductor/insulator:</td>
<td>Plenum – 23 AWG bare copper wire covered by FEP/polyolefin insulation Riser – 23 AWG bare copper wire covered by polyolefin insulation</td>
</tr>
<tr>
<td>Flame rating:</td>
<td>Plenum – NFPA 262 and CSA FT-6 Riser – UL1666 and CSA FT-4</td>
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<tr>
<td>PoE compliance:</td>
<td>Meets IEEE 802.3af and IEEE 802.3at for PoE applications</td>
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<tr>
<td>Installation tension:</td>
<td>25 lbf (110 N) maximum</td>
</tr>
<tr>
<td>Temperature rating:</td>
<td>32°F to 122°F (0°C to 50°C) during installation -4°F to 167°F (-20°C to 75°C) during operation</td>
</tr>
<tr>
<td>Cable jacket:</td>
<td>Plenum – low smoke, flame-retardant PVC Riser – flame-retardant PVC</td>
</tr>
<tr>
<td>Cable diameter:</td>
<td>Plenum – 0.225 in. (5.7mm) nominal Riser – 0.243 in. (6.2mm) nominal</td>
</tr>
<tr>
<td>Cable weight:</td>
<td>Plenum – 30 lbs./1000 ft. (13.6 kg/305m) Riser – 28 lbs./1000 ft. (12.7 kg/305m)</td>
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<tr>
<td>Packaging:</td>
<td>1000 ft. (305m), in EZ-Brake™ reel-in-a-box Package tested to ISTA Procedure 1A</td>
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</tbody>
</table>

**Key Features and Benefits**

- Third party tested: Cable has been tested as part of the TX6000™ 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
- Guaranteed channel performance above the standards: Industry leading guaranteed channel performance above the TIA/ISO standards with headroom warranty
- Integrated pair divider: Separates pairs for exceptional cable performance
- ReelEx™ packaging: Ensures proper performance and provides quick installation
- Tested beyond the standards: Cable has been characterized to 550 MHz, 300 MHz above the standard
- Descending length cable markings: Easy identification of remaining cable reduces installation time and cable scrap

**Applications**

TX6000™ UTP Copper Cable is a component of the Panduit® TX6000™ UTP 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 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**
**TX6000™ Enhanced Category 6 UTP Copper Cable**

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### Additional Specifications

<table>
<thead>
<tr>
<th>Mechanical Test</th>
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<tbody>
<tr>
<td>Ultimate Breaking Strength</td>
<td>&gt; 90 lbf (400 N)</td>
</tr>
<tr>
<td>Minimum Bend Radius</td>
<td>4 x cable diameter</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical Test</th>
<th></th>
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<tbody>
<tr>
<td>Nominal Velocity of Propagation (NVP)</td>
<td>CMR – 70%, CMP – 72%</td>
</tr>
<tr>
<td>Operating Voltage, Maximum</td>
<td>80V</td>
</tr>
</tbody>
</table>

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### Cable Construction

![Diagram](image)

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**Worldwide Subsidiaries and Sales Offices**

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