TX6000™ Enhanced Category 6 U/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**

**Electrical performance:** 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.

**Conductors/insulators:**
- Plenum – 23 AWG bare copper wire covered by FEP/polyolefin insulation
- Riser – 23 AWG bare copper wire covered by polyolefin insulation

**Flame rating:**
- Plenum – NFPA 262 and CSA FT-6
- Riser – UL1666 and CSA FT-4

**PoE compliance:**
Meets IEEE 802.3af and IEEE 802.3at for PoE applications

**Installation tension:**
25 lbf (110 N) maximum

**Temperature rating:**
32°F to 122°F (0°C to 50°C) during installation
-4°F to 167°F (-20°C to 75°C) during operation

**Cable jacket:**
- Plenum – low smoke, flame-retardant PVC
- Riser – flame-retardant PVC

**Cable diameter:**
- Plenum - 0.225 in. (5.7mm) nominal
- Riser - 0.243 in. (6.2mm) nominal

**Cable weight:**
- Plenum – 30 lbs./1000 ft. (13.6 kg/305m)
- Riser – 25 lbs./1000 ft. (11.4 kg/305m)

**Packaging:**
1000 ft. (305m), in Reelex™ packaging. Package tested to ISTA Procedure 1A

**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 head room guaranteed

**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™ U/UTP Copper Cable is a component of the Panduit TX6000™ 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

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TX6000™ Enhanced Category 6 U/UTP Copper Cable

additional specifications

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<thead>
<tr>
<th>Mechanical Test</th>
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<tbody>
<tr>
<td>Ultimate Breaking Strength</td>
<td>&gt;90 lbf (400 N)</td>
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<tr>
<td>Minimum Bend Radius</td>
<td>4 x cable diameter</td>
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<table>
<thead>
<tr>
<th>Electrical Test</th>
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<tr>
<td>Nominal Velocity of Propagation (NVP)</td>
<td>CMR – 70%, CMP – 72%</td>
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<tr>
<td>Operating Voltage, Maximum</td>
<td>80V</td>
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cable construction

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