TX6000™ Shielded Copper Cable – SF/UTP

**Specifications**

Category 6 cable shall be constructed of 23 AWG copper conductors with PE insulation. The copper conductors shall be twisted in pairs and separated by an integrated pair separator. All four pairs shall be surrounded by an overall metallic foil shield and an overall braided shield within a LSZH jacket.

**Technical Information**

**Electrical Performance:** Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of ISO 11801 Class E and ANSI/TIA-568-C.2 Category 6 standards for swept frequencies up to 250 MHz

**Conductors/Insulators:** 23 AWG solid bare copper wire covered by PE insulation

**Certifications:** ABS certificate number 13-HS1068054-PDA

**Flame Rating:** IEC 60332-1 EN50575: Euroclass Eca

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

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

**Temperature Rating:** 0°C to 50°C (32°F to 122°F) during installation
-20°C to 60°C (-4°F to 140°F) during operation

**Cable Jacket:** LSZH

**Cable Diameter:** 7.4mm (0.291 in.) nominal

**Cable Weight:** 29 kg/500m (63 lbs./1640 ft.)

**Packaging:** 500 meter (1640 feet) on a reel
Package tested to ISTA Procedure 1A

**Key Features and Benefits**

Integrated Pair Dividers: Separates pairs for exceptional cable performance

Overall Foil Shield: Provides superior structural integrity and reduces low frequency external interference to ensure exceptional cable performance at all swept frequencies up to 250 MHz

Overall Braided Shield: Provides superior structural integrity and reduces low frequency external interference to ensure exceptional cable performance at all swept frequencies up to 250 MHz

Descending Length Cable Markings: Easy identification of remaining cable reduces installation time and cable scrap

Bulk Packaging: Supplied 500m (1640 ft.) to a reel

**Applications**

TX6000™ Shielded Copper Cable is a component of the Panduit TX6000™ Shielded 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 ISO 11801 Class E and ANSI/TIA-568-C.2 Category 6 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

*To designate color, add suffix DG (Dark Gray) or WH (White). For additional cable colors, contact customer service.

**For lengths 1 to 10 meters (increments of one meter) and 1.5, 2.5, 15, 20 meters, change the length designation in the part number to desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet) to the end of the part number. For example, the part number for a blue, 15-meter patch cord is STP6X15BU.

***For lengths 3 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet, change the length designation in the part number to desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet) to the end of the part number. For example, the part number for a blue, 15-foot patch cord is STP6X15BU.
### TX6000™ Shielded Copper Cable – SF/UTP

#### Mechanical Test

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

#### Electrical Test

<table>
<thead>
<tr>
<th>Test</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Resistance</td>
<td>&lt;9.38 ohm per 100m (328 ft.)</td>
</tr>
<tr>
<td>DC Resistance Unbalance</td>
<td>&lt;2.5%</td>
</tr>
<tr>
<td>Mutual Capacitance</td>
<td>&lt;5.6 nF per 100m (328 ft.) at 1 KHz</td>
</tr>
<tr>
<td>Capacitance Unbalance</td>
<td>&lt;330 pF per 100m (328 ft.) at 1 kHz</td>
</tr>
<tr>
<td>Characteristic Impedance</td>
<td>100 Ohm +/-15% up to 100 MHz</td>
</tr>
<tr>
<td>Nominal Velocity of Propagation (NVP)</td>
<td>66% nominal</td>
</tr>
<tr>
<td>Operating Voltage, maximum</td>
<td>80V</td>
</tr>
</tbody>
</table>

For a copy of Panduit product warranties, log on to www.panduit.com/warranty.