**TX5500™ UTP Copper Cable**

## Specifications

Category 5e cable shall exceed IEC 61156-5 and ANSI/TIA-568-C.2 Category 5e component standards. The conductors shall be 24 AWG construction with HDPE insulation. The copper conductors shall be twisted in pairs and all four pairs shall be covered by a CM 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 D and ANSI/TIA-568-C.2 Category 5e ratified standards at swept frequencies up to 100 MHz.
Certified component performance up to 100 meters and exceeds the component requirement of the IEC 61156-5 and ANSI/TIA-568-C.2 Category 5e ratified standards at swept frequencies up to 100 MHz.

**Conductors/Insulators:**
24 AWG solid copper insulated with HDPE.

**Certification:**
ANATEL 2488-09-6246.

**Flame Rating:**
CM – UL 1685.

**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 75°C (-4°F to 167°F) during operation.

**Cable Jacket:**
Flame-retardant PVC.

**Cable Diameter:**
4.9mm (0.193 in.) nominal.

**Cable Weight:**
8.2 kg/305m (18 lbs./1000 ft.).

**Packaging:**
305m (1000 ft.) in a carton. Package tested to ISTA Procedure 1A.

## Key Features and Benefits

- **Third Party Tested:**
  Cable has been tested as part of the TX5500TM UTP Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of the following standards: ISO 11801 Class D and ANSI/TIA-568-C.2.

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

- **Tested Beyond the Standards:**
  Cable has been characterized to 450 MHz, 350 MHz above the standard.

- **Easy Payout Carton:**
  Improves installation time and prevents tangling.

## Applications

TX5500™ UTP Cable is a component of the Panduit® TX5500™ Copper Cabling System. The end-to-end system provides Gigabit Ethernet performance with usable bandwidth beyond 100 MHz. With certified performance to the ANSI/TIA-568-C.2 Category 5e and ISO 11801 Class D standards, 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
- Token Ring 4/16

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#### Additional Specifications

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<tbody>
<tr>
<td><strong>Mechanical Test</strong></td>
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<tr>
<td>Ultimate Breaking Strength</td>
<td>&gt;400 N (90 lbf)</td>
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<tr>
<td>Minimum Bend Radius</td>
<td>4 x cable diameter</td>
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<tr>
<td><strong>Electrical Test</strong></td>
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<tr>
<td>Nominal Velocity of Propagation (NVP)</td>
<td>67%</td>
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<tr>
<td>Operating Voltage, maximum</td>
<td>80V</td>
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#### Cable Construction

![Diagram of TX5500™ UTP Copper Cable]

- **Jacket**
- **Conductor Wire**
- **Conductor Insulator**
- **Rip Cord**