Category 6A UTP Copper Cable

**Specifications**

Category 6A cable shall be constructed of 23 AWG copper conductors, twisted in pairs and separated by an integrated pair separator.

**Technical Information**

**Electrical performance:** Certified component and channel performance in a 4-connector configuration up to 100 meters and meets/exceeds the requirements of ISO 11801 Class E2a and ANSI/TIA-568-C.2 Category 6A standards for swept frequencies up to 500 MHz

**Conductors/insulators:** 23 AWG solid bare copper wire covered by HDPE and Foam PE insulation

**Flame rating:** FEP plenum (CMP): NFPA 262
PE riser (CMR): UL 1666
HDPE (LSZH): IEC 60332-1
PVC (CM): IEC 60332-1 and UL 1685

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

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

**Temperature rating:** -20°C to 75°C (-4°F to 167°F)

**Cable jacket:** FEP plenum (CMP): flame retardant PVC
PE riser (CMR): flame retardant PVC
HDPE (LSZH): low smoke flame retardant PVC
PVC (CM): PVC

**Cable diameter:**
- CMP, LSZH, CM: 8.3mm (0.325 in.)
- CMR: 8.6mm (0.340 in.)

**Cable weight:**
- 20.4 kg/305m (45 lbs./1000 ft.)
- 23.4 kg/305m (52 lbs./1000 ft.) on a reel

**Packaging:**
- 23.4 kg/305m (52 lbs./1000 ft.) on a reel
- Packaged tested to ISTA Procedure 1A

**Key Features and Benefits**

**Extended temperature range**
- Allows operation in a 75°C ambient environment providing error free performance in high-density

**Innovative pair divider**
- Separates pairs for exceptional cable performance and also improves alien crosstalk by creating spacing between cables when bundled

**Descending length cable markings**
- Easy identification of remaining cable reduces installation time and cable scrap

**Bulk packaging**
- Supplied 305m (1000 ft.) to a reel

**Applications**

Category 6A UTP Copper Cable is a component of the TX6A™ 10Gig™ UTP Copper Cabling System when installed according to the above length considerations. Interoperable and backwards 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 E2a and ANSI/TIA-568-C.2 Category 6A standards. Usage of the TX6A™ 10Gig™ UTP Copper Cabling System includes:
-• Ethernet 10GBASE-T
-• Virtual business management applications

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<table>
<thead>
<tr>
<th>Mechanical Test</th>
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<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>
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<table>
<thead>
<tr>
<th>Electrical Test</th>
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<tbody>
<tr>
<td>DC Resistance</td>
<td>&lt;9.38 ohm per 100m (328 ft.)</td>
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<tr>
<td>DC Resistance Unbalance</td>
<td>&lt;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>LSZH/CM: 65% nominal</td>
</tr>
<tr>
<td></td>
<td>CMR/CMR: 70% nominal</td>
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 contacted Customer Service by email: cs@panduit.com or by phone: 800.777.3300