Utility Grade UTG10 U/UTP Copper Cable

**Specifications**

Utility Grade UTG10 cable shall be third-party verified to pass UTG Framework 2.0 testing. The cable shall also exceed ANSI/TIA-568.2-D and IEC 61156-5 Category 6 component standards. The conductors shall be 23 AWG construction with polyolefin (CMR) insulation. The copper conductors shall be twisted in pairs, separated by a cross-divider and covered by 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-568.2-D Category 6 and ISO 11801 Class E standards. Certified component performance up to 100 meters and exceeds the component requirements of ANSI/TIA-568.2-D and IEC 61156-5 Category 6 component standards at swept frequencies up to 450 MHz.

**Standards compliance:** UL Verified to UTG Framework 2.0

**PoE Performance:** 150m or more up to 100 W

**Conductors/Insulators:** Riser – 23 AWG bare copper wire covered by polyolefin insulation

**Flame rating:** Riser – UL1666 and CSA FT-4

**Insulation diameter:** Riser – 23 AWG bare copper wire covered by polyolefin insulation

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

**Temperature rating:** 32°F to 122°F (0°C to 50°C) during installation

**Cable jacket:** Flame-retardant PVC

**Cable diameter:** 0.243 in. (6.2mm) nominal

**Cable weight:** 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-568.2-D Category 6

**Extended Transmission Distances**

Supports low bit rate devices like OT and physical security applications at up to 150m, while also supporting increased distances for high bit rate IP-based applications.

**Higher Bandwidth Capabilities**

Maximum bandwidth of 450 MHz provides more headroom margin for connectivity performance and consistency with data transmission speeds up to 1 Gbps at 100m

**Extended AV distances**

Provides design flexibility for high definition 4K video surveillance, HDBaseT and Gbps SDVoE applications

**Increased PoE application distance**

Minimizes degradation of insertion loss and maintains performance at longer distances with edge devices while still meeting code compliance

**Ease of Installation**

Flex Force Level 1 parameters simplifies installation readiness and highlights the ease of handling for pulling, installing, and terminating

**Reelex™ packaging**

Ensures proper performance and provides quick installation

**Applications**

The Utility Grade UTG10 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-568.2-D 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)
- Smart building
- Power over Ethernet (PoE)
- High definition audio/visual

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additional specifications

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<tr>
<th>Mechanical Test</th>
<th>Electrical Test</th>
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<tbody>
<tr>
<td>Ultimate Breaking Strength</td>
<td>Nominal Velocity of Propagation (NVP)</td>
</tr>
<tr>
<td>90 lbf (400 N)</td>
<td>70%</td>
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<tr>
<td>Minimum Bend Radius</td>
<td>Operating Voltage, Maximum</td>
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<tr>
<td>4 x cable diameter</td>
<td>80 V</td>
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</tbody>
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UL® Verified UTG Attributes (UTG Framework 2.0)

- Maximum horizontal distance at 10 Mbps: 185m (606 ft.)
- Maximum horizontal distance at 100 Mbps: 150m (492 ft.)
- Maximum horizontal distance at 1 Gbps: 100m (328 ft.)
- Maximum horizontal distance at 10 Gbps: 50m (164 ft.)
- Maximum HDBaseT and Gbps SDVoE distance: 100m (328 ft.)
- Video Surveillance (1080p HD and 4K UHD): 150-185m (492-606 ft.)
- Maximum PoE distance - Type 1 (15.4 W): 185m (606 ft.)
- Maximum PoE distance - Type 2 (30 W): 150m (492 ft.)
- Maximum PoE distance - Type 3 (60 W): 100m (328 ft.)
- Maximum PoE distance - Type 4 (100 W): 100m (328 ft.)
- Maximum bundle size with PoE (Type 4 - 0.5A) @ 45°C: 72 cables

Flex Force Level: 1

cable construction

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