**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 FEP/polyolefin (CMP) insulation. The copper conductors shall be twisted in pairs, separated by a cross-divider and covered by a low smoke, flame-retardant (CMP) 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 (CMP-LP - 0.5A)
- Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
- UL PoH certified per UL4299

**Conductors/insulators:**

- Plenum – 23 AWG bare copper wire covered by FEP/polyolefin insulation

**Flame rating:**

- Plenum – NFPA 262 and CSA FT-6

**Installation tension:**

- 25 lbf (110 N) maximum

**Temperature rating:**

- 32°F to 122°F (0°C to 50°C) during installation
- -4°F to 194°F (-20°C to 90°C) during operation

**Cable jacket:**

- Plenum – low smoke, flame-retardant PVC

**Cable diameter:**

- Plenum – 0.225 in. (5.7mm) nominal

**Cable weight:**

- Plenum – 28 lbs./1000 ft. (13kg/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 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

www.panduit.com
Utility Grade UTG10 Copper Cable

### Additional Specifications

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

<table>
<thead>
<tr>
<th>Electrical Test</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Velocity of Propagation (NVP)</td>
<td>CMP – 72%</td>
</tr>
<tr>
<td>Operating Voltage, Maximum</td>
<td>80 V</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UL Verified UTG Attributes (UTG Framework 2.0)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum horizontal distance at 10 Mbps</td>
<td>185m (606 ft.)</td>
</tr>
<tr>
<td>Maximum horizontal distance at 100 Mbps</td>
<td>150m (492 ft.)</td>
</tr>
<tr>
<td>Maximum horizontal distance at 1 Gbps</td>
<td>100m (328 ft.)</td>
</tr>
<tr>
<td>Maximum horizontal distance at 10 Gbps</td>
<td>50m (164 ft.)</td>
</tr>
<tr>
<td>Maximum horizontal distance for HDBaseT and Gbps SDVoE distance</td>
<td>100m (328 ft.)</td>
</tr>
<tr>
<td>Video Surveillance (1080p HD and 4K UHD)</td>
<td>150-185m (492-606 ft.)</td>
</tr>
<tr>
<td>Maximum PoE distance - Type 1 (15.4 W)</td>
<td>185m (606 ft.)</td>
</tr>
<tr>
<td>Maximum PoE distance - Type 2 (30 W)</td>
<td>150m (492 ft.)</td>
</tr>
<tr>
<td>Maximum PoE distance - Type 3 (60 W)</td>
<td>100m (328 ft.)</td>
</tr>
<tr>
<td>Maximum PoE distance - Type 4 (100 W)</td>
<td>100m (328 ft.)</td>
</tr>
<tr>
<td>Maximum bundle size with PoE (Type 4 - 0.5A) @ 45°C</td>
<td>72 cables</td>
</tr>
</tbody>
</table>

| Flex Force Level | 1 |

### Cable Construction

- **Jacket**
- **Conductor Wire**
- **Cross-Divider**
- **Conductor Insulator**

---

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

For more information, visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com or by phone: 800.777.3300

©2022 Panduit Corp.
ALL RIGHTS RESERVED.

COSP525--WW-ENG

4/2022