

Utility Grade UTG10 U/UTP Copper Cable

North
America

PANDUIT[®]
SPECIFICATION SHEET

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 Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
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 -4°F to 167°F (-20°C to 75°C) during operation
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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Riser: PUR6004*-UTG

*To designate a color, add suffix BU (Blue), WH (White), YL (Yellow), BL (Black), IG (International Gray), RD (Red), GR (Green), OR (Orange), or VL (Violet).

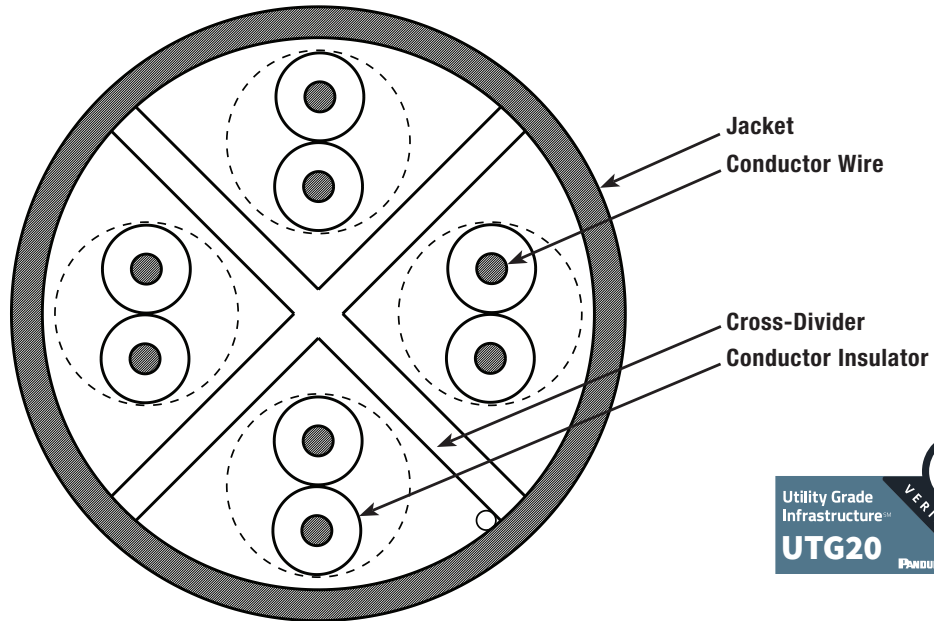
Utility Grade UTG10 U/UTP Copper Cable

additional specifications

Mechanical Test	
Ultimate Breaking Strength	90 lbf (400 N)
Minimum Bend Radius	4 × cable diameter
Electrical Test	
Nominal Velocity of Propagation (NVP)	70%
Operating Voltage, Maximum	80 V

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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