TX7000™ Category 7 S/FTP Outside Plant [OSP] Copper Cable

Specifications

Category 7 OSP cable shall meet the IEC 61156-5 Category 7 and ANSI/TIA-568-C.2 Category 6A component standards. The conductors shall be 23 AWG with polyethylene insulation. The cable shall have a gel-filled construction and waterblock tape to prevent moisture migration in underground and wet applications and a wide temperature range for extreme weather environments. The copper conductors shall be twisted in pairs each covered by a foil shield within an overall braid shield and a UV-resistant and abrasion-resistant polyethylene (PE) jacket which is also flame retardant and halogen free. Product is to be used in duct and conduit installations only. Not to be used in aerial or direct burial installations.

Technical Information

Electrical performance: Certified channel performance in a 4-connector configuration up to 100 meters and exceeds ISO 11801 Class Ea and ANSI/TIA-568-C.2 Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the Panduit® TX6A™ 10Gig Copper Cabling System. Certified component performance up to 100 meters and exceeds the IEC 61156-5 Category 7 and ANSI/TIA-568-C.2 Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling.

Conductors/insulators: 23 AWG solid copper insulated with polyolefin


Flame rating: IEC 60332-1, IEC 60754-2, EN50399: Eca; Smoke classification: none

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

Installation tension: 22 lbf (100 N)

Temperature rating: -10ºC to 50ºC (14ºF to 122 ºF) during installation
-40ºC to 75ºC (-40ºF to 167 ºF) during operation

Cable jacket: Black UV- and abrasion-resistant polyethylene (PE)

Cable diameter: 8.5 mm (0.336 inch) nominal

Cable weight: 37 kg / 500m (82 lbs./ 1640 feet)

Packaging: 500 meter (1640 feet) reel Package tested to ISTA procedure 1A

Key Features and Benefits

Reel: Ensures proper performance and provides quick installation

Descending length cable markings: Print legend contains meter markings

Robust design: Protects against environmental elements that can cause electrical performance failures.

Flooding compound and waterblock tape: Waterproof gel and waterblock tape prevents moisture migration and water ingress

Applications

TX7000™ OSP Shielded Copper Cable is a component of the Panduit TX6A™ 10Gig Copper Cabling System. This end-to-end system provides a cost effective media for ensuring the most challenging network bandwidth needs are easily met today and tomorrow. Businesses are placing increased reliance on their networks to efficiently pass vital and time sensitive information throughout their enterprise.

Key applications include:
- 10GBASE-T Ethernet
- 1000BASE-T Gigabit Ethernet
- 10/100BASE-T Ethernet

Broadband Video
POE, POE+, POE++

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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>
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<tr>
<td></td>
<td>79% nominal</td>
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<tr>
<td>Minimum Bend Radius</td>
<td>Operating Voltage, Maximum</td>
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<td>80V</td>
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<td>8 x Cable Diameter</td>
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or by phone: 800.777.3300