**TX7000™ Shielded Marine Copper Cable – S/FTP**

**Specifications**

Category 7 cable shall meet or exceed the IEC 61156-5 Category 7 component standard and be characterized to 1000 MHz. The conductors shall be stranded copper wire construction with polyethylene insulation. The copper conductors shall be twisted in pairs each surrounded by a foil, covered with an overall braided shield within an oil and fuel resistant, halogen-free, fire retardant LSHF-FR jacket.

**Technical Information**

- **Electrical performance:** Certified channel performance in a 4-conductor configuration up to 100 meters and exceeds the requirements of ISO 11801 Class E, 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™ Shielded Copper Cabling System

- **Conductors/insulators:** Stranded copper wire insulated with polyethylene

- **Standards:** EN 50173-1, EN 50288-4-1, ISO/IEC 11801, IEC 61156-5, DNV specification number 6-827.50-2, IEC 60092-360

- **Certifications:** DNV certification number E-10447, ABS certification number 10-HS638424-1-PDA

- **Flame rating:** IEC 60754-1, IEC 60754-2, IEC 61034-2, IEC 60332-3-24

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

- **Chemical resistance:** Mineral oil IRM 902 (IEC 60811-2-1) 7 days/23°C (73°F); 4 hours/70°C (158°F)

- **Cable jacket:** Oil and fuel resistant, halogen free and fire retardant jacket LSHF-FR, (SHF1)

- **Cable diameter:** 7.9mm (0.314 in.) nominal

- **Cable weight:** 38 kg/500 m (84 lbs./500 m)

- **Packaging:** 500 or 1000 meters (1640 or 3280 feet) on a reel

  - Package tested to ISTA procedure 1A or 1B

**Key Features and Benefits**

- **23 AWG stranded conductor wire:** Provides exceptional signal strength and electrical performance for high vibration environments

- **Individually foiled pairs:** Prevents the coupling near-end crosstalk and alien crosstalk between twisted pairs to ensure 10GBASE-T transmission performance

- **Overall braided shield:** Provides superior structural integrity and reduces low frequency external interference to ensure exceptional cable performance

- **Robust jacketing:** Oil and fuel resistant for harsh environments

- **Tested beyond the standards:** Cable has been characterized to 1000 MHz, 400 MHz above the standard

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

- **Bulk packaging:** Supplied in reels for ease of installation

- **Third party tested:** Exceeds the application requirements of Det Norske Veritas, American Bureau of Shipping, and ETL

**Applications**

The TX7000™ Shielded Copper Cable is a component of the TX6A™ 10Gig™ Shielded Copper Cabling System. This end-to-end system provides a cost effective media for ensuring that the most challenging network bandwidth needs are easily met today and tomorrow. The durable, flame and oil resistant jacket used in the TX7000™ S/FTP Shielded Copper Cable makes it the ideal choice for use in harsh environments encountered in marine applications including ship and offshore/onshore units. The use of shielding in the cables offers superior performance in uncertain high EMI environments for ultimate signal integrity.

**Cable Prep Tools**

- **Wire stripping tool:** CJAST

- **Wire snipping tool:** CWST

**Mini-Com® TX6A™ 10Gig™ Shileded Jack Module**

- **Jack module:** CJS6X8BTGY

**Mini-Com® All Metal Shielded Flat Modular Patch Panels**

- **24-port, 2 RU:** CPA24BLY
- **48-port, 2 RU:** CPA48BLY

**Mini-Com® All Metal Shielded Angled Modular Patch Panels**

- **24-port, 1 RU:** CP24BLY
- **48-port, 2 RU:** CP48BLY
- **72-port, 2 RU:** CP72BLY

**Certification and Testing**

- **IEC 60754-1, IEC 60754-2, IEC 61034-2, IEC 60332-3-24**

**Certification and Certification numbers**

- **DNV certification number E-10447, ABS certification number 10-HS638424-1-PDA**

**Contact**

Contact customer service for bulk packaged and/or keyed jack modules and patch cords.
**TX7000™ Shielded Marine Copper Cable – S/FTP**

**additional specifications**

<table>
<thead>
<tr>
<th>Mechanical Test</th>
<th></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>8 x cable diameter</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical Test</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Velocity of Propagation (NVP)</td>
<td>76% nominal</td>
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</tbody>
</table>

**cable construction**

- Conductor Insulator
- Stranded Conductor Wire
- Foil Shield
- Overall Braid
- Jacket

**product offering**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Packaging Configuration</th>
<th>Reel Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSM7004*-KED</td>
<td>Standard Euro Pallet (12 reels/pallet)</td>
<td>500m</td>
</tr>
<tr>
<td>PSM7004*-KD</td>
<td>Standard Pallet (12 reels/pallet)</td>
<td>500m</td>
</tr>
<tr>
<td>PSM7004*-KM</td>
<td>Standard Pallet (4 reels/pallet)</td>
<td>1000m</td>
</tr>
<tr>
<td>PSM7004*-KEM</td>
<td>Standard Euro Pallet (4 reels/pallet)</td>
<td>1000m</td>
</tr>
</tbody>
</table>

*Cable color is IG (International Gray) or BU (Blue). For other cable colors, please contact customer service.

For more information

Visit us at www.panduit.com
Contact Customer Service by email: cs@panduit.com or by phone: 800.777.3300 and reference COSP182

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