Cable Solutions for Harsh Environments

The deployment of structured cabling in harsh environments places additional demands on the cabling that can be most satisfactorily addressed by deployment of high performance S/FTP Category 7 cabling. The main advantage of using a STP cabling system is the dramatic suppression of alien crosstalk ensuring signal integrity. The advantages of Category 7 shielded S/FTP cable with shielded Category 6A connectivity results in a 10 Gb/s high performance cabling infrastructure that will withstand the rigors of the harsh environments. Panduit understands the harsh and often unpredictable environments into which the 10 Gb/s cabling infrastructure is installed, and demonstrates how performance, quality and reliability will be met.

**Copper Cable for Harsh Environments**

- Durable flame and oil resistant jacket makes it the ideal choice for use in harsh environments
- Shielding in the cable offers superior performance in uncertain high EMI environments for ultimate signal integrity

**Copper Cable for Extreme Harsh Environments**

- Durable flame, oil, UV and MUD resistant jacket makes it the ideal choice for use in harsh environments, including outdoor use
- Shielding in the cable offers superior performance in uncertain high EMI environments for ultimate signal integrity

**Armored Copper Cable for Extreme Harsh Environments**

- Durable flame, oil, UV and MUD resistant jacket makes it the ideal choice for use in harsh environments, including outdoor use
- Shielding in the cable, combined with the stainless steel armor, offers superior performance in uncertain high EMI environments for ultimate signal integrity

**Additional benefits of Harsh Environment Cabling**

- Certified channel performance in a 4-connector 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
- Certified component performance up to 100 meters and meets or exceeds the component requirement of the IEC 61156-5 Category 7 standard at swept frequencies up to 600 MHz
- Individually foiled pairs with overall braided shield prevents coupling near-end and alien crosstalk between pairs while shield reduces low-frequency external interference to ensure 10GBASE-T performance
- Characterized to 1000 MHz, 400 Mhz above the standard
- Meets IEEE 802.3af and IEEE 802.3at for PoE applications
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Certifications</th>
<th>Conductors</th>
<th>Jacketing</th>
<th>Compatible Jack Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harsh Environment LSZH Copper Cable – S/FTP, 4-Pair</td>
<td>PSM7004BU-KEM DNV #E-12713</td>
<td>22 AWG stranded conductors are 4 x 2/0.27mm², twisted in pairs, each individual twisted pair is surrounded by a foil, covered with an overall braided shield.</td>
<td>Oil- and fuel-resistant, low smoke zero halogen (LSZH) (IEC 60332-3c) jacket</td>
<td>CJ6X8GTGY</td>
</tr>
<tr>
<td>Extreme Harsh Environment LSZH Copper Cable – S/FTP, 4-Pair</td>
<td>PSMD7004BL-LED DNV #E10447 ABS 10-HS694241-PDA</td>
<td>23 AWG stranded conductors are construction with foamed PE insulation, twisted in pairs, each surrounded by a foil, covered with an overall braided shield.</td>
<td>Oil-, fuel-, UV- and MUD-resistant LSZH (SHF2) (IEC 60332-1/-3) jacket</td>
<td>CJ6X8GTGY</td>
</tr>
<tr>
<td></td>
<td>PSMDA7004BL-LED DNV #E-12714</td>
<td>22 AWG conductors are constructed with foamed PE insulation, twisted in pairs, each surrounded by a foil, covered with an overall braided shield.</td>
<td>Thermoplastic copolymer inner jacket, which is covered by a stainless steel armor and an oil-, fuel-, UV- and MUD-resistant halogen-free, fire-retardant LSZH (SHF2) (IEC 60332-1/-3) jacket</td>
<td>CJ6X8GTGY</td>
</tr>
</tbody>
</table>

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For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com

or by phone: 800.777.3300

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