

» 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_A 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

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Part Number	Certifications	Conductors	Jacketing	Compatible Jack Module
Harsh Environment LSZH Copper Cable – S/FTP, 4-Pair				
PSM7004BU-KEM	DNV #E-12713	22 AWG stranded conductors are 4 x 2/0.27mm ² , twisted in pairs, each individual twisted pair is surrounded by a foil, covered with an overall braided shield.	Oil- and fuel-resistant, low smoke zero halogen (LSZH) (IEC 60332-3c) jacket	CJ6X88TGY
Extreme Harsh Environment LSZH Copper Cable – S/FTP, 4-Pair				
PSMD7004BL-LED	DNV #E10447 ABS 10-HS638424-1-PDA	23 AWG stranded conductors are construction with foamed PE insulation, twisted in pairs, each surrounded by a foil, covered with an overall braided shield.	Oil-, fuel-, UV- and MUD-resistant LSZH (SHF2) (IEC 60332-1/-3) jacket	CJSM6X88TG
PSMDA7004BL-LED	DNV #E-12714	22 AWG conductors are constructed with foamed PE insulation, twisted in pairs, each surrounded by a foil, covered with an overall braided shield.	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	CJSM6X88TG

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