

PROFIBUS DP Fire Resistant Marine Offshore Cable



Application

Offshore installations, Maritime Environment, Profibus DP industrial communication, Harsh Environments. The cable design and structure comply with the circuit integrity performance during a fire of the relevant requirements of IEC 60331-23 and allows data transmission during the fire.

Cable Design

Conductor	Stranded Annealed Tinned Copper wire 22/19 AWG (19/0,16mm)
Insulation	XLPE + Fire Resistant Tape Ø 2,80 mm nom.
Pair	2 cores twisted to a pair (Red / Green)
Foil shield	Overall Aluminium/polyester foil
Braid shield	Annealed Tinned Copper Wire Braid, 80% nom. coverage
Outer Jacket	FR-LSZH SHF-1 or XL-HFFR SHF2 or XL-HFFR MUD Resistant (Ø 8,50 mm nom.)

Note

The MUD Resistant option has a dual outer jacket comprising of an FR-LSZH SHF-1 inner jacket further finished with an XL-HFFR MUD Resistant outer jacket.

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Performance

Frequency Range:	1 - 16 MHz
Impedance:	150 Ω
Max. DC Resistance :	55 Ω /km@20°C
Max. Resistance Unbalance:	3 %
Attenuation:	42 dB/Km max. @ 16.0 MHz
Capacitance:	28 pF/m
Capacitance Unbalance:	1.3 pF/m max.
Velocity of Propagation:	75 % nom.
Dielectric Strength:	1500 V/minute
Dielectric Strength to Shield:	1000 V/minute
Voltage Rating:	300 V
Min. Bend Radius:	150 mm
Cold Bend:	per CSA C22.2 No. 38-95
Cold Impact:	per CSA C22.2 No.0.3 (Min. -35°C)
Operating Temperature:	-35 °C up to +75 °C
UV Resistance:	YES
Mud Resistance:	Optional

Standards

Applicable Standards	SHF-1: DNV certified, IEC 60092-359, IEC 60092-360, IEC 60092-350, RoHS-2 2015/863/EU , RoHS-2 2011/65/EU
	SHF-2: DNV certified, IEC 60092-359, IEC 60092-360, IEC 60092-350, IEC 60811 -2-1, RoHS-2 2015/863/EU , RoHS-2 2011/65/EU
	MUD Resistant: DNV certified, IEC 60092-359, IEC 60092-360, IEC 60092-350, IEC 60811 -2-1, RoHS-2 2015/863/EU , RoHS-2 2011/65/EU , NEK TS 606
Flammability Rating	IEC 60331-23, IEC 60332-3 , IEC 60754-1/2, IEC 61034-1/2

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Specification

Part Number	Outer Jacket Type	Inner Jacket Colour	Outer Jacket Colour	Inner Jacket Diameter [mm nom.]	Overall Diameter [mm nom.]
AMDFR122-UAZF1	SHF1	-	Violet	-	8,50
AMDFR122-UAZF2	SHF2	-	Violet	-	8,50
AMDFR122-UAZFM	MUD	Violet	Black	8,50	10,70