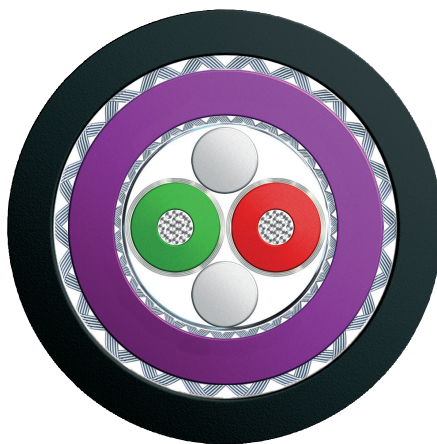


Armoured PROFIBUS DP Fire Resistant Marine Offshore Cable



Application

Offshore installations, Maritime Environment, Outdoor and direct burial installations, 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
Inner Jacket	FR-LSZH Violet (Ø 8,50 mm)
Armour	Galvanised Steel Wire Braid (GSWB) or Tinned Copper Wire Braid (TCWB)
Outer Jacket	FR-LSZH SHF-1 or XL-HFFR MUD Resistant (Ø 11,80 mm nom.)

Armoured PROFIBUS DP Fire Resistant Marine Offshore Cable

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
Rodent Resistance:	YES

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
	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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Fire Resistant Marine Offshore Cable

Specification

Part Number	Outer Jacket Type	Armour Type	Outer Jacket Colour	Overall Diameter [mm nom.]
AMDFR122-WBZF1	SHF1	GSWB	Black	11,80
AMDFR122-WBZFM	MUD	GSWB	Black	11,80
AMDFR122-TWZF1	SHF1	TCWB	Black	11,80
AMDFR122-TWZFM	MUD	TCWB	Black	11,80