RS-485/422/232 2x2x24/7 AWG SF/UTP LSZH-SHF2 MUD-Resistant

Part Number: **7MG0111xx**

Applications:	Offshore installations, Maritime Environment, Fixed or portable installations, RS-232, RS-422, Industrial communication, Harsh Environments, RS-485
General Construction:	The cable contains **two** twisted pairs, an overall shield made of aluminum-foil and an tinned copper braid, and an overall dual layer jacket.
Outer Jacket Material:	XL-HFFR
Outer Diameter:	10.7 mm nom.
Weight:	135 kg/km

Design & Materials

Conductor Material:	Annealed Tinned Copper
Conductor Size:	24 AWG
Conductor Construction:	7x0.20 mm
Insulation Material:	PO
Insulation O.D.:	1.3 mm nom.
Conductor Color Code:	Blue x White/Blue, Orange x White/Orange
Overall Shield Design:	Aluminum Foil + Braid
Overall Shield Material:	Aluminum/Polyester Foil
Overall Braid Material:	Annealed Tinned Copper
Braid Coverage:	75 % nom.
Overall Drain-wire Material:	Annealed Tinned Copper
Overall Drain-wire size:	26 AWG
Overall Drain-wire Construction:	Stranded
Inner Jacket Material:	FR-LSZH
Inner Jacket Thickness:	1.1 mm nom.
Inner Jacket Diameter nom.:	8.5 mm nom
Inner Jacket Color:	Purple
Total number of conductors:	4
Outer Jacket Thickness:	1.1 mm nom.
Outer Jacket Color:	
Marking:	

Standards

Applicable Standards:	DNV-GL certified, ABS certified, IEC 60092-359, IEC 60092-350, IEC 60811-2-1, RoHS-2 2011/65/EU , NEK TS 606
Flamability Rating:	IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, UL 1581 VW-1

Performance

Impedance:	120
Max. DC Resistance :	95.0 /km@20°C
Attenuation:	21.3 dB/Km max. @ 1 MHz 72.2 dB/Km max. @ 10 MHz 102.0 dB/Km max. @ 20 MHz
Capacitance:	42 pF/m
Velocity of Propagation:	66 % nom.
Dielectric Strength:	1000 V/minute
Dielectric Strength to Shield:	700 V/minute
Min. Bend Radius:	70 mm
Max. Operating Temperature:	+70 °C
Min. Operating Temperature:	-35 °C
UV resistance:	Yes
Mud Resistance:	Yes

Prepared By	Revised By	Version Num	Modified on
Ofer Solter	Ofer Solter	1.3	30-08-2015