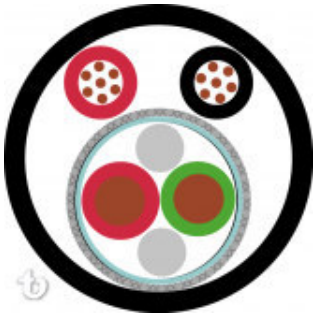
ProfiBus DP 2x22/1 AWG SF/UTP + 2x1.0 mm² LSZH-SHF2

Part Number: **7MG0110xxx**



Applications:	Offshore installations, Maritime Environment, Ships, High speed & Light craft, Profibus DP industrial communication, Harsh Environments, RS-485
General Construction:	One SF/UTP shielded Profibus core and two insulated conductors are cabled together and jacketed.
Outer Jacket Material:	XL-HFFR
Outer Diameter:	10.5 mm nom.
Weight:	115 kg/km

Design & Materials

Detailed Construction:
insulated conductors:
Conductor: Stranded bare copper, 7x0.43 mm (1 mm ^{2})
Insulation: XLPE, O.D 2.1 mm nom.
Color Code: Red, Black
Max. DC Resistance: 19.5 /km@20°C

ProfiBus Core:
Conductor: Annealed bare copper, 0.64 mm, 22 AWG
Insulation: Cellular PO, O.D 2.55 mm nom.
Color code: Green X Red
Shield Design: Aluminum Foil + Tinned copper braid, SF/UTP
Braid Coverage: 60%
Max. DC Resistance: 55.0 /km@20°C

Total number of conductors:	4
Outer Jacket Thickness:	1.1 mm nom.
Outer Jacket Color:	
Marking:	Per request

Standards

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

Electrical Properties:
Profibus cable transmission characteristics are suitable for DP applications as well as some PA applications
Voltage rate is 300 V, however the cable is not intended to be used for mains power supply, it may be used in 300 V electrical cabinets, switch-gear and alike.
Note - the below electrical properties refer to the Profibus cable

Performance

Impedance:	150
Attenuation:	42 dB/Km max. @ 16.0 MHz
Capacitance:	28.0 pF/m
Capacitance Core to Shield:	1.2 pF/m
Dielectric Strength:	700 V/minute
Dielectric Strength to Shield:	700 V/minute
Min. Insulation Resistance :	4 G •km
Voltage Rating:	300 V
Min. Bend Radius:	75 mm
Max. Operating Temperature:	+80 °C
Min. Operating Temperature:	-40 °C
UV resistance:	Yes

Prepared By	Revised By	Version Num	Modified on
Ofer Solter	Jacob Ben Ary	1.4	21-09-2015