



Part Number: ML11WBF04

4C1mm² XLPE/OS/LSZH/GSWA/SHF1 150/250 V (300 V)

Product Description

Marine Control Cable, 4 Cores 1.0mm² Bare Copper, XLPE Insulation, Overall foil shield with drain wire, LSZH Inner Jacket, Galvanized Steel Wire Armor, SHF1 Outer Jacket, IEC 60092-376

Technical Specifications

Physical Characteristics (Overall)

Conductor

Area	Material	No. of Conductors
1.0 mm ²	BC-Bare Copper (Stranded)	4

Insulation

Material
XL-PE

Color Chart

No. of Conductors	Color
4	Black, All the cores with number coding 1~4

Overall Shield or Un-shield Material

Type	Material	Drain Wire Material	Coverage [%]
Tape	Polyester Tape		100 %
Shield Tape	Aluminium Mylar Tape	Tinned Copper	100 %

Inner Jacket Material

Material	Nominal Diameter
LSZH	7.6 mm

Armour Material

Type	Material	Nominal Diameter
Armour	Galvanized Steel wire	9.2 mm

Outer Jacket Material

Material	Nominal Diameter
LSZH	11.5 mm

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR @ 20 °C
20.29 Ohm/km

Capacitance

Nom. Capacitance Core to Core
< 150 nF/km

Inductance

Nominal Inductance
<= 1 mH/km

Inductance to Resistance Ratio L/R

Max. Inductance to Resistance Ratio L/R
< 25 μ H/Ohm

Voltage

Voltage Rating	150/250 V (300 V)
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Temperature Range

Operating Temp. range	-30 °C To + 90 °C (EN)
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Mechanical Characteristics

Bulk Cable Weight	252 kg/km
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Standards

Cable Standards	IEC 60092-376
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Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV)	Yes
EU Directive 2003/96/EC (BFR)	Yes
EU Directive 2011/65/EU (ROHS II)	Yes
EU Directive 2012/19/EU (WEEE)	Yes
EU Directive 2015/863/EU	Yes
EU CE Mark	Yes
CA Prop 65 (CJ for Wire and Cable)	Yes
MII Order 39 (China RoHS)	Yes

Suitability

Suitability - UV Resistance	Yes (UL 1581)
Suitability - Oil Resistance	Yes

Flammability, LSZH, Toxicity Testing

ISO/IEC Flammability	IEC 60332-3-22 , IEC 60332-1-2
Smoke Density as per IEC 61034-2	<= 60 %
Halogen Acid Gas as per IEC 60754-1	<= 0.5 %
pH Content as per IEC 60754-2	>= 4.3
Conductivity as per IEC 60754-2	<= 10 μ S/mm

History

Update and Revision	Revision number: 0 Revision Date: 19-2-2020
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