



Power cable ≥ 1 kV, for permanent installation

MarineFlex YOZp X-FR 0,6/1 kV

Article number: 27365

17-10-2023

Description

3 x 16 mm²

Application:

Armoured, heavy-duty, fire-resistant, ultra-flexible, low voltage power cables for power and lighting applications in all ship areas.

Characteristics:

- The only flexible fire-resistant class 5 conductor cable
- Lightweight
- Halogen-free and low smoke
- Fire-resistant according to IEC 60331 1/2
- Tinned copper wire braid armouring
- Different colour outer sheaths, other than orange, available on request
- DC voltage: 0,9/1,5 kV (if voltage to earth does not exceed 0,9 kV)

Core identification:

- HD308 S2



* This image may differ from the actual product.

Trading information

Product group	Power cable ≥ 1 kV, for permanent installation
Type	MarineFlex YOZp X-FR 0,6/1 kV
Net. Weight	0.996 kg/m
Sheath marking	{Length} TKF - 3X16 Class 5 - 0,6/1 kV - CS 90 - mbzh - MarineFlex YOZp X-FR HALOGEN FREE FIRE RESISTANT {Batch}

Trade lengths

Minimal order

(27365 / 8713182275129)

1 MTR



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Construction characteristics

Standardization	IEC 60092-350/-360/-353
Number of cores	3
Nominal cross section conductor	16 mm ²
Conductor material	Copper
Conductor surface	Bare
Standardization conductor material	IEC 60228
Shape of conductor	Round
Conductor category	Class 5 = flexible
Material core insulation	Mica + XLHFFR
Core identification	HD 308: option 3a
Conductor coding in accordance with HD 308 S2	Yes
Colour insulated wires	Blue - Brown - Black
Screening	Yes
Construction outer shield	Tinned copper braiding
Binder/filler	FRNC filler
Material outer sheath	Flame Retardant Halogen Free Polyolefin Compound
Colour outer sheath	Orange
Diameter conductor	5.2 mm
Diameter over braiding	19.1 mm
Outer diameter approx.	21.9 mm

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Properties

Flame retardant according to IEC 60332-1-2	Yes
Flame retardant according to IEC 60332-3-22 (Cat A)	Yes
Halogen free according to EN IEC 60754-1	Yes
Halogen free according to EN IEC 60754-2	Yes
Low smoke according to EN IEC 61034-2	Yes
Insulation integrity according to IEC 60331	Yes
UV resistant	Yes
UV protection	NEN EN 50289-4-17A
UV rating	Limited / Test duration $720 \leq h < 2000$

Technical characteristics

Min. bending radius during installation	154 mm
Min. permitted bending radius, stationary application/permanent installation	132 mm
Tensile load	720 N
Max. conductor temperature	90 °C
Transportation and storage temperature	-40 / 50 °C
Permitted cable outer temperature during assembling/handling	-20 / 50 °C
Permitted cable outer temperature after assembling without vibration	-40 / 70 °C



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Electrical characteristics

Nominal voltage U ₀	0.6 kV
Nominal voltage U	1 kV
Test voltage	3.5 kV
Conductor DC resistance @ 20°C	1.21 Ohm/km
Conductor AC resistance @ max. cont. Conductor temp.	1.4 Ohm/km
Capacity	61 nF/km
Inductance	0.227 mH/km