



Power cable ≥ 1 kV, for permanent installation

MarineFlex YOZp X-FR 0,6/1 kV

Article number: 27372

02-10-2026

Description

3 G 50 mm²

Application:

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

Characteristics (properties):

- 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	2,358 kg/m
Sheath marking	{Length} 0000 TKF - MarineFlex YOZp X-FR 0,6/1 kV - 3G50 mm ² +90 ° C - LSHF - IEC 60092-353, 60332-3-22, 60331-1 - {Batch}

Trade lengths

Minimal order

(27372 / 8713182309909)	1000 MTR
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Construction characteristics

Standardization	IEC 60092-350/-360/-353
Number of cores	3
Nominal cross section conductor	50 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	Colours and numbers
Conductor coding in accordance with HD 308 S2	Yes
Colour insulated wires	Green/Yellow - Blue- Brown
Protective conductor	Yes
Number of PE conductors	1
Nominal cross section PE conductor	50 mm ²
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	9 mm
Insulation thickness	1 mm
Diameter shield wires	0,3 mm
Diameter over braiding	29,1 mm
Nominal outer sheath thickness	1,8 mm
Outer diameter approx.	32,7 mm

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Properties

Flame retardant	IEC 60332-1 / IEC 60332-3-22 Cat. A
Fire resistant	IEC 60331-1/2
Halogen free	IEC 60754-1/2
Low smoke	IEC 61034-2
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	229 mm
Min. permitted bending radius, stationary application/permanent installation	197 mm
Tensile load	2.250 N
Max. permitted 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	0,386 Ohm/km
Conductor AC resistance @ max. cont. Conductor temp.	0,492 Ohm/km
Capacity	61 nF/km
Inductance	0,212 mH/km