Power cable >= 1 kV, for permanent installation

MarineFlex YOZp X-FR 0,6/1 kV

Article number: 27341 | 02-10-2026

Description

4 x 70 mm²

* This image may differ from the actual product.

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

Trading information

Product group	Power cable >= 1 kV, for permanent installation
Type	MarineFlex YOZp X-FR 0,6/1 kV
Net. Weight	4,282 kg/m
Sheath marking	{Length} 0000 TKF - MarineFlex YOZp X-FR 0,6/1 kV - 4x70 mm² +90 ° C - LSHF - IEC 60092-353, 60332-3-22, 60331-1 {Batch}

Trade lengths

		Minimal order
	(27341 / 8713182123932)	1000 MTR

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Construction characteristics

Standardization	IEC 60092-350/-360/-353
Number of cores	4
Nominal cross section conductor	70 mm²
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	Blue - Brown - Black - Grey
Screening	Yes
Construction outer shield	Tinned copper braiding
Binder/filler	FRNC filler
Nominal equivalent cross section of reinforcement	32 mm²
Material outer sheath	Flame Retardant Halogen Free Polyolefin Compound
Colour outer sheath	Orange
Diameter conductor	10,6 mm
Insulation thickness	1,1 mm
Diameter shield wires	0,4 mm
Diameter over braiding	37 mm
Nominal outer sheath thickness	2,3 mm
Outer diameter approx.	41,6 mm

Subject to technical modifications | No rights can be derived from this information

Spinnerstraat 15 | P.O. Box 6 | 7481 KJ Haaksbergen | Nederland | Phone: +31 (0)53 573 22 55 | E-mail: info@tkf.nl

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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 <= h <2000

Technical characteristics

Min. bending radius during installation	292 mm
Min. permitted bending radius, stationary application/permanent installation	250 mm
Tensile load	4.200 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 U0	0,6 kV
Nominal voltage U	1 kV
Test voltage	3,5 kV
Conductor DC resistance @ 20°C	0,272 Ohm/km
Conductor AC resistance @ max. cont. Conductor temp.	0,347 Ohm/km
Capacity	79 nF/km
Inductance	0,2 mH/km