Power cable >= 1 kV, for permanent installation

MarineLine YOZp X-FR 0,6/1 kV

Article number: 27121 | 02-10-2026

Description

27 x 2,5 mm²

Application:

Lightweight, fire resistant, armoured, reduced diameter low voltage power cables for power and lighting applications in all ship areas.

Characteristics (properties):

- Class 2 conductors
- Lightweight, reduced diameter
- Halogen free and low smoke
- Fire resistant according IEC 60331 1/2 (≥ 120min.)
- 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	MarineLine YOZp X-FR 0,6/1 kV
Net. Weight	1,255 kg/m
Sheath marking	{Length} 0000 TKF - MarineLine YOZp X-FR 0,6/1 kV - 27x2,5 mm² +90 ° C - LSHF - IEC 60092-353, 60332-3-22, 60331-1 - {Batch}

Trade lengths

		Minimal order
	(27121 / 8713182372224)	1000 MTR

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Construction characteristics

Standardization	IEC 60092-350/-360/-353
Number of cores	27
Nominal cross section conductor	2,5 mm²
Conductor material	Copper
Conductor surface	Bare
Standardization conductor material	IEC 60228
Shape of conductor	Round
Conductor category	Class 2 = stranded
Material core insulation	Mica + XLHFFR
Core identification	Colours and numbers
Conductor coding in accordance with HD 308 S2	Yes
Colour insulated wires	Black, with white printed numbers
Screening	Yes
Construction outer shield	Tinned copper braiding
Binder/filler	Polyester tape
Material outer sheath	Flame Retardant Halogen Free Polyolefin Compound
Colour outer sheath	Orange
Diameter conductor	2,04 mm
Insulation thickness	0,7 mm
Diameter shield wires	0,3 mm
Diameter over braiding	24,9 mm
Nominal outer sheath thickness	1,6 mm
Outer diameter approx.	28,1 mm

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

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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	197 mm
Min. permitted bending radius, stationary application/permanent installation	169 mm
Tensile load	1.013 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	7,41 Ohm/km
Conductor AC resistance @ max. cont. Conductor temp.	9,3 Ohm/km
Inductance	0,279 mH/km

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