



Power cable ≥ 1 kV, for permanent installation

MarineFlex YOZp EMC 1,8/3 kV

Article number: 17826

02-10-2026

Description

3 x 50/25 mm²

Application:

Lightweight, EMC screened and armored, special frequency drive cables 1,8/3 kV which offer excellent EMI- and mechanical protection for use in places that need Electro-Magnetic Interference to be limited to the minimum.

Characteristics (properties):

- Class 5 conductors
- Easy installation in tight spaces due to flexible conductors
- Halogen-free and low smoke, flame retardant in fire conditions
- A combined screen of copper-pet tape and tinned copper wire braid for optimal screening
- Different outer sheaths, other than black, available on request

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 EMC 1,8/3 kV
Net. Weight	2,78 kg/m
Sheath marking	{Length} 0000 TKF - MarineFlex YOZp EMC 1,8/3 kV - 3x50/25 mm ² +90 ° C - LSHF - IEC 60092-353, 60332-3-22 - {Batch}

Trade lengths

		Minimal order
	(17826 / 8713182257705)	1000 MTR
Reel à 500	(17826H X 500/20 / 8713182257712)	2 PCE

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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	Crosslinked polyethylene (XLPE)
Core identification	Colours and numbers
Conductor coding in accordance with HD 308 S2	Yes
Colour insulated wires	Brown - Black - Grey
Screening	Yes
Construction outer shield	EMC-screen consists of Cu/PET-tape and tinned copper braiding
Binder/filler	FRNC filler
Nominal earthscreen cross section	25 mm ²
Material outer sheath	Flame Retardant Halogen Free Polyolefin Compound
Colour outer sheath	Black
Diameter conductor	9 mm
Insulation thickness	2 mm
Diameter shield wires	0,4 mm
Diameter over braiding	33,2 mm
Nominal outer sheath thickness	2,1 mm
Outer diameter approx.	37,4 mm

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Properties

Flame retardant	IEC 60332-1 / IEC 60332-3-22 Cat. A
Halogen free	IEC 60754-1/2
Low smoke	IEC 61034-2
UV resistant	Yes
UV protection	NEN EN 50289-4-17A
UV rating	Very good / Test duration ≥ 6000 h

Technical characteristics

Min. bending radius during installation	262 mm
Min. permitted bending radius, stationary application/permanent installation	150 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	1,8 kV
Nominal voltage U	3 kV
Test voltage	6,5 kV
Conductor DC resistance @ 20°C	0,386 Ohm/km
Conductor AC resistance @ max. cont. Conductor temp.	0,49 Ohm/km
Capacity	61 nF/km
Inductance	0,212 mH/km