



Power cable ≥ 1 kV, for permanent installation

MarineFlex YOZp EMC 1,8/3 kV

Article number: 17785

17-10-2023

Description

3 x 120/70 mm²

Application:

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

Characteristics:

- 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



* This image may differ from the actual product.

Core identification:

- HD308 S2

Trading information

Product group	Power cable ≥ 1 kV, for permanent installation
Type	MarineFlex YOZp EMC 1,8/3 kV
Net. Weight	5.643 kg/m
Sheath marking	{Length} TKF - 3X120/70 Class 5 - 1,8/3 kV - CS 90 - mbzh - MarineFlex YOZp EMC HALOGEN FREE {Batch}

Trade lengths

Minimal order

	(17785 / 8713182212575)	1 MTR
Reel à 500	(17785H X 500/20 / 8713182212568)	1 PCE
Reel à 1000	(17785H X 1000/30 / 8713182212544)	1 PCE



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Construction characteristics

Standardization	IEC 60092-350/-360/-353
Number of cores	3
Nominal cross section conductor	120 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 copper/PETtape and (CU) braiding
Binder/filler	FRNC filler
Nominal equivalent cross section of reinforcement	70 mm ²
Material outer sheath	Flame Retardant Halogen Free Polyolefin Compound
Colour outer sheath	Black
Diameter conductor	14 mm
Insulation thickness	2 mm
Diameter shield wires	0.5 mm
Diameter over braiding	45.6 mm
Nominal outer sheath thickness	2.7 mm
Outer diameter approx.	50.8 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
UV resistant	Yes
UV protection	NEN EN 50289-4-17A

Technical characteristics

Min. bending radius during installation	356 mm
Min. permitted bending radius, stationary application/permanent installation	204 mm
Tensile load	5,400 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	1.8 kV
Nominal voltage U	3 kV
Test voltage	6.5 kV
Conductor DC resistance @ 20°C	0.161 Ohm/km
Conductor AC resistance @ max. cont. Conductor temp.	0.19 Ohm/km
Capacity	87 nF/km
Inductance	0.192 mH/km