



Power cable ≥ 1 kV, for permanent installation

MarineFlex YOZp 0,6/1 kV

Article number: 16191

27-08-2019

Description

3 x 35 mm²

Application:

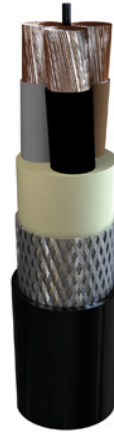
Lightweight, armoured, flexible low voltage power cables for power and lighting applications in all ship areas.

Characteristics:

- Class 5 conductors
- Easy installation in tight spaces due to flexible conductors
- Halogen free and low smoke, flame retardant
- Tinned copper wire braid armouring
- Excellent abrasion resistance
- Different colour outer sheaths, other than black, available on request

Core identification:

- HD308 S2



Trading information

| | |
|----------------|--|
| Product group | Power cable ≥ 1 kV, for permanent installation |
| Type | MarineFlex YOZp 0,6/1 kV |
| Net. Weight | 1,654 kg/m |
| Sheath marking | {Length} TKF - 3X35 Class 5 - 0,6/1 kV - CS 90 - mbzh - MarineFlex YOZp HALOGEN FREE {Batch} |

Trade lengths

| | |
|-------------|------------------------------------|
| | (16191 / 8713182053086) |
| Reel à 500 | (16191H X 500/20 / 8713182053079) |
| Reel à 1000 | (16191H X 1000/30 / 8713182053093) |



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Construction characteristics

| | |
|-------------------------------------|--|
| Certified for shipboard application | Yes |
| Standardization | IEC 60092-350/-360/-353 |
| Number of cores | 3 |
| Nominal cross section conductor | 35 mm ² |
| Conductor material | Copper |
| Conductor surface | Bare |
| Standardization conductor material | IEC 60228 |
| Shape of conductor | Round |
| Conductor category | Class 5 = flexible |
| Core insulation | XLPE (VPE) |
| Core identification | Colours and numbers |
| | Yes |
| Screening | Yes |
| Construction outer shield | tinned copper braiding |
| Core lay-up | Concentric layers |
| Binder/filler | FRNC filler |
| Material outer sheath | Flame Retardant Halogen Free Polyolefin Compound |
| Colour outer sheath | Black |
| Standardization sheath material | IEC 60092-360 |



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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 |
| Diameter conductor | 7.7 mm |
| Insulation thickness | 0.9 mm |
| Diameter shield wires | 0.3 mm |
| Diameter over braiding | 24.6 mm |
| Nom. equivalent cross section of reinforcement | 17.4 mm ² |
| Nominal outer sheath thickness | 1.8 mm |
| Outer diameter approx. | 28 mm |

Technical characteristics

| | |
|--|-------------|
| Tensile load | 1575 N |
| Min. bending radius during installation | 197 mm |
| Min. permitted bending radius, stationary application/permanent installation | 113 mm |
| Permitted cable outer temperature, in movement | -20 / 70 °C |
| Permitted cable outer temperature, fixed | -40 / 70 °C |
| Max. conductor temperature | 90 °C |



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Electrical characteristics

| | |
|---|--------------|
| Nominal voltage U0 | 0.6 kV |
| Nominal voltage U | 1 kV |
| Test voltage | 3500 kV |
| Conductor DC resistance @ 20°C | 0.554 Ohm/km |
| Conductor AC resistance @ max. cont. Conductor temp. | 0.66 Ohm/km |
| Capacity | 59 nF/km |
| Inductance | 0.211 mH/km |