Power cable >= 1 kV, for permanent installation

# MarineLine YOZp X-FR 0,6/1 kV

Article number: 27180 | 02-10-2026

## Description

3 G 1,5 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

PRODUCED WITH 100% GREEN ENERGY

* 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 | 0,147 kg/m |
| Sheath marking | {Length} 0000 TKF - MarineLine YOZp X-FR 0,6/1 kV - 3G1,5 mm² +90 ° C - LSHF - IEC 60092-353, 60332-3-22, 60331-2 - {Batch} |

## Trade lengths

| | | Minimal order |
|---|---|---|
| | (27180 / 8713182120948) | 1 MTR |

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## Construction characteristics

| | |
|---|---|
| Standardization | IEC 60092-350/-360/-353 |
| Number of cores | 3 |
| Nominal cross section conductor | 1,5 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 | Colour |
| Conductor coding in accordance with HD 308 S2 | Yes |
| Colour insulated wires | Green/Yellow - Blue- Brown |
| Protective conductor | Yes |
| 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 | 1,57 mm |
| Insulation thickness | 0,7 mm |
| Diameter shield wires | 0,2 mm |
| Diameter over braiding | 7,9 mm |
| Nominal outer sheath thickness | 1,1 mm |
| Outer diameter approx. | 10,2 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 | 70 mm |
| Min. permitted bending radius, stationary application/permanent installation | 60 mm |
| Tensile load | 68 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 | 12,1 Ohm/km |
| Conductor AC resistance @ max. cont. Conductor temp. | 15 Ohm/km |
| Capacity | 37 nF/km |
| Inductance | 0,307 mH/km |


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