



Power cable  $\geq 1$  kV, for permanent installation

## MarineLine YOZp EMC 1,8/3 kV

Article number: 17434

02-10-2026

### Description

3 x 10/10 mm<sup>2</sup>

### Application:

Low voltage shipboard power cables with enhanced EMC properties for use in sensitive EMC areas and suitable for Variable Frequency Drive applications. Enhanced shielding properties due to optimized tinned copper wire braid in combination with 100% foil-screen coverage.

### Characteristics (properties):

- Class 2 conductors
- Designed for situations that need Electro-Magnetic Interference to be limited to the minimum
- Halogen-free and low smoke, flame retardant
- Tinned copper wire braid armoring
- Different colour 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 $\geq 1$ kV, for permanent installation                                                                                |
| Type           | MarineLine YOZp EMC 1,8/3 kV                                                                                                       |
| Net. Weight    | 0,63 kg/m                                                                                                                          |
| Sheath marking | {Length} 0000 TKF - MarineLine YOZp EMC 1,8/3 kV - 3x10/10 mm <sup>2</sup> +90 ° C<br>- LSHF - IEC 60092-353, 60332-3-22 - {Batch} |

### Trade lengths

Minimal order

(17434 / 8713182397074)

1000 MTR

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### Construction characteristics

|                                               |                                                               |
|-----------------------------------------------|---------------------------------------------------------------|
| Standardization                               | IEC 60092-350/-360/-353                                       |
| Number of cores                               | 3                                                             |
| Nominal cross section conductor               | 10 mm <sup>2</sup>                                            |
| Conductor material                            | Copper                                                        |
| Conductor surface                             | Bare                                                          |
| Standardization conductor material            | IEC 60228                                                     |
| Shape of conductor                            | Round                                                         |
| Conductor category                            | Class 2 = stranded                                            |
| 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                                 | Polyester tape                                                |
| Nominal earthscreen cross section             | 10 mm <sup>2</sup>                                            |
| Material outer sheath                         | Flame Retardant Halogen Free Polyolefin Compound              |
| Colour outer sheath                           | Black                                                         |
| Diameter conductor                            | 3,85 mm                                                       |
| Insulation thickness                          | 2 mm                                                          |
| Diameter shield wires                         | 0,3 mm                                                        |
| Diameter over braiding                        | 18 mm                                                         |
| Nominal outer sheath thickness                | 1,5 mm                                                        |
| Outer diameter approx.                        | 21 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                  |

### Technical characteristics

|                                                                              |             |
|------------------------------------------------------------------------------|-------------|
| Min. bending radius during installation                                      | 147 mm      |
| Min. permitted bending radius, stationary application/permanent installation | 84 mm       |
| Tensile load                                                                 | 450 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 |

### Electrical characteristics

|                                                      |             |
|------------------------------------------------------|-------------|
| Nominal voltage $U_0$                                | 1,8 kV      |
| Nominal voltage $U$                                  | 3 kV        |
| Test voltage                                         | 6,5 kV      |
| Conductor DC resistance @ 20°C                       | 1,83 Ohm/km |
| Conductor AC resistance @ max. cont. Conductor temp. | 2,3 Ohm/km  |
| Capacity                                             | 55 nF/km    |
| Inductance                                           | 0,244 mH/km |