Shipboard low voltage cable

# MarineLine YOZp 1,8/3 kV

Article number: 16501 | 26-07-2017

## Description

3 x 50 svs

Special Frequency Drive cables. These cables have increased isolation thickness to withstand voltage spikes that can occur in low-voltage frequency drives, and to withstand accelerated aging of the insulation material due to higher frequencies. The tinned copper wire braiding offers excellent EMI protection and mechanical protection. Special types available on request.

## Trading information

| | |
|---|---|
| Product group | Shipboard low voltage cable |
| Series | Shipboard cable |
| Type | MarineLine YOZp 1,8/3 kV |
| Net. Weight | 1,861 kg/m |
| Sheath marking | {Length} TKF - 3X50 svs - 1,8/3 kV - CS 90 - mbzh - MarineLine YOZp HALOGEN FREE {Batch} |

## Trade lengths

| | |
|---|---|
| Reel à 1 | (16501 / 8713182080228) |
| Reel à 500 | (16501H X 500/20 / 8713182080211) |



Subject to technical modifications | No rights can be derived from this information



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## Construction characteristics

| | |
|---|---|
| Standardization | IEC 60092-350/-360/-353 |
| Standardization conductor material | IEC 60228 |
| Standardization sheath material | IEC 60092-360 |
| Number of cores | 3 |
| Conductor material | Cu |
| Shape of conductor | Sector-shaped |
| Core insulation | XLPE (VPE) |
| Conductor category | Class 2 = stranded |
| Core identification | HD 308 S2 |
| Core lay-up | Concentric layers |
| Binder/filler | Polyester tape |
| Screening | Yes |
| Construction outer shield | tinned copper braiding |
| Material outer sheath | Flame Retardant Halogen Free Polyolefin Compound |
| Colour outer sheath | Black |


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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 |
| Nominal cross section conductor | 50 mm² |
| Outer diameter approx. | 27.8 mm |
| Diameter conductor | 12.96 mm |
| Insulation thickness | 2 mm |
| Diameter over braiding | 24.5 mm |
| Diameter shield wires | 0.3 mm |
| Nominal outer sheath thickness | 1.7 mm |
| Min. bending radius after installation | 111 mm |
| Min. bending radius during installation | 195 mm |
| Tensile load | 2250 N |

## Technical characteristics

| | |
|---|---|
| Test voltage | 6500 V |
| Nominal voltage U0 | 1.8 kV |
| Nominal voltage U | 3 kV |
| Conductor DC resistance @ 20°C | 0.387 Ohm/km |
| Conductor AC resistance @ max. cont. Conductor temp. | 0.49 Ohm/km |
| Inductance | 0.212 mH/km |
| Capacity | 61 nF/km |
| Maximum conductor temperature | 90 °C |
| Permitted cable outer temperature, in movement | -20 / 70 °C |
| Permitted cable outer temperature, fixed | -40 / 70 °C |


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