



Shipboard low voltage cable

MarineMultiFlex BOQp 1,8/3 kV

Article number: 16544

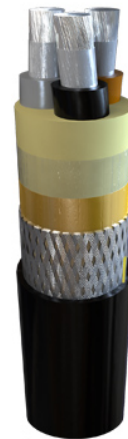
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Description3 x 120 mm² Class 5**Application:**

Lightweight, armoured, double screened, low voltage power cables for power and lighting applications in all ship areas. Applicable where repeated bending and working in harsh environments is required, like azipod drives, powering underwater dredger motors and use in cable chains.

Characteristics:

- Class 5 conductors
- Filled cable for grant optimal sealing in cable transits
- Halogen free and low smoke, flame retardant in fire conditions
- High abrasion resistance due to PUR outer sheath and a special combined EMI screening for use in frequency drive applications
- Different outer sheaths, other than black, available on request

**Core identification:**

- HD308 S2

Trading information

Product group	Shipboard low voltage cable
Series	Shipboard cable
Type	MarineMultiFlex BOQp 1,8/3 kV
Net. Weight	5,688 kg/m
Sheath marking	{Length} TKF - 3X120 Class 5 - 1,8/3 kV - CS 90 - mbzh - MarineMultiFlex BOQp HALOGEN FREE {Batch}

Trade lengths

Reel à 1	(16544 / 8713182129132)
Reel à 500	(16544H X 500/20 / 8713182129125)



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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, tinned
Shape of conductor	Round
Core insulation	Rubber (EPR)
Conductor category	Class 5 = flexible
Core identification	HD 308 S2
Core lay-up	Concentric layers
Binder/filler	FRNC filler
Screening	Yes
Construction outer shield	EMC-screen consists of copper/PETtape and (CU) braiding
Material outer sheath	PUR (Polyurethane)
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
Low smoke	IEC 61034-2
Nominal cross section conductor	120 mm ²
Outer diameter approx.	52.6 mm
Diameter conductor	15.1 mm
Insulation thickness	2.4 mm
Diameter over braiding	46.9 mm
Diameter shield wires	0.4 mm
Nominal outer sheath thickness	2.7 mm
Min. bending radius after installation	316 mm
Min. bending radius during installation	631 mm
Tensile load	5400 N

Technical characteristics

Test voltage	6500 V
Nominal voltage U ₀	1.8 kV
Nominal voltage U	3 kV
Conductor DC resistance @ 20°C	0.164 Ohm/km
Conductor AC resistance @ max. cont. Conductor temp.	0.209 Ohm/km
Maximum conductor temperature	90 °C
Permitted cable outer temperature, in movement	-20 / 70 °C
Permitted cable outer temperature, fixed	-40 / 70 °C