

## MMGSGSGO 6/10kV

### Power cables for marine in accordance with VG 95218 part 14 type A



#### Application

These single-core medium-voltage cables are suitable for fixed installation on ships and off-shore units in all locations and on open decks. The definitions for installation in BV 3400 apply. The cables are certified from Bundesamt für Ausrüstung, Informationstechnik und Nutzung der Bundeswehr (BAAINBw).

#### Global data

Type designation	MMGSGSGO
Standard	VG 95218 part 14

#### Design features

Conductor	Copper, round stranded in accordance with VG 95218 part 14
Insulation	Ethylen-propylene rubber (EPR)
Electrical field control	Inner and outer layer of semiconductive rubber compound
Individual screen	Copper wires wrapped in a traverse spiral and/or copper tapes.
Inner covering	Polyolefine compound, black
Screen	Plain copper wire braid. Over the braid is a transparent foil
Outer sheath	Compound from crosslinked polyolefine compound
Outer sheath colour	Red

#### Electrical parameters

Rated voltage	6 / 10 / 12 kV ( U <sub>0</sub> / U / U <sub>m</sub> )
AC test voltage	21 kV
Current Carrying Capacity description	The definitions in BV 3400 apply

#### Chemical parameters

Smoke emission	according to VG 95218-2
Acidity of fire gases	according to VG 95218-2
Flame propagation	according to VG 95218-2
Resistance to oil	according to VG 95218-2
Resistance to chemicals	according to VG 95218-2

#### Thermal parameters

Max. operating temperature of the conductor	90 °C
Ambient temperature for fix installation min.	-30 °C
Laying temperature min.	-15 °C

#### Mechanical parameters

Max. tensile load on the conductor	50 N/mm <sup>2</sup>
Bending radii min.	6 x D

Number of cores x cross section	Part number	MLFB Number	Designation acc. to VG 95218-Txxx Dash No.	Conductor diameter nom. mm	Outer diameter max. mm	Bending radius fixed min. mm	Weight (approx.) kg/km	Permissible tensile force max. N	Nominal operating capacitance $\mu\text{F}/\text{km}$	Inductance nom. mH/km	Current carrying capacity (1) A
1x35F/16		5BG5 925	T014A001	8	26.5	159	1190	1750	0.3	0.29	197
1x50F/16	20321022	5BG5 926	T014A002	9.5	28.5	171	1330	2500	0.33	0.28	239
1x70F/16		5BG5 927	T014A003	11.2	29.5	177	1600	3500	0.38	0.27	307
1x95F/16		5BG5 928	T014A004	13	31.5	189	1950	4750	0.42	0.26	367
1x120F/16		5BG5 929	T014A005	14.6	34.5	207	2260	6000	0.46	0.25	435
1x150F/25	20321021	5BG5 930	T014A006	16.3	35.5	213	2600	7500	0.5	0.24	502

(1) The values are for continuous load at 45 °C ambient temperature, three cables installed in trefoil formation on a surface.