

LMGSGO 300/500 V

Light power cables for marine according to VG 95218 part 61



Application

For fixed installation on ships in all locations and on open decks. The definitions for installation in BV 3400 apply. The cables are certified from the Bundesamt für Ausrüstung, Informationstechnik und Nutzung der Bundeswehr (BAAINBw).

Global data

Type designation	LMGSGO
Standard	VG 95218 Part 61

Design features

Conductor	Copper, round stranded, in accordance with VG 95218 part 61
Insulation	Crosslinked polyalkene compound
Core identification	According to VG 95218 part 61
Core arrangement	Lapped foil over the laid-up cores
Screen	Plain copper wire braid. Over the braid is a transparent foil.
Outer sheath	Compound from crosslinked elastomer, colour: black

Electrical parameters

Rated voltage	300/500V
Max. permissible operating voltage AC	0.318/0.55 kV
Max. permissible operating voltage DC	0.413/0.825 kV
AC test voltage	2.5 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. permissible temperature at conductor	90 °C
Max. short circuit temperature of the conductor	250 °C
Laying temperature min.	-15 °C

Mechanical parameters

Max. tensile load on the conductor	50 N/mm ²
Min. bending radius	5 x D

Number of cores x cross section	Part number	MLFB Number	Designation acc. to VG 95218-61 Dash No.	Conductor diameter max. mm	Outer diameter min. mm	Outer diameter max. mm	Bending radius fixed min. mm	Weight (ca.) kg/km	Permissible tensile force max. N	Current carrying capacity (1) A
Type B (2 core)										
2x1,5	20136683	5BG5 525	019	1.7	7	8	40	100	150	20
2x2,5	20136684	5BG5 526	020	2.2	7.7	8.8	44	135	250	25
Type B (3 core)										
3x1,5	20136167	5BG5 527	021	1.7	7.2	8.4	42	115	225	15
3G1,5	20136688	5BG5 528	022	1.7	7.2	8.4	42	115	225	20
3x2,5	20136168	5BG5 530	023	2.2	8	9.4	47	165	375	20
3G2,5	20136169	5BG5 531	024	2.2	8	9.4	47	165	375	25
Type B (4 core)										
4x1,5	20136170	5BG5 532	025	1.7	7.8	9.4	47	150	300	13
4x2,5	20136681	5BG5 533	026	2.2	8.7	10.4	52	200	500	15
Type A (5 core)										
5x1,5	20136682	5BG5 534	027	1.7	8.3	9.6	48	180	375	13
5G1,5	20136685	5BG5 535	028	1.7	8.3	9.6	48	180	375	13
Type A (multicore)										
7x1,5	20026280	5BG5 505	005	1.7	9.3	10.8	54	230	525	12
7G1,5	20026291	5BG5 522	105	1.7	9.3	10.8	54	230	525	12
7x2,5	20026288	5BG5 520	017	2.2	10.3	12	60	310	875	11
10x1,5	20026281	5BG5 506	006	1.7	10.8	12.5	62.5	315	750	11
10G1,5	20039506	5BG5 523	106	1.7	10.8	12.5	62.5	315	750	11
12x1,5	20026282	5BG5 507	007	1.7	12	13.5	67.5	355	900	10
14x1,5	20026283	5BG5 508	008	1.7	12.7	14.2	71	400	1050	10
16x1,5	20038696	5BG5 510	009	1.7	13.2	14.8	74	450	1200	9
19x1,5	20113835	5BG5 511	010	1.7	13.9	15.3	76.5	485	1425	8
24x1,5	20026284	5BG5 512	011	1.7	15.5	17.5	87.5	635	1800	8
27x1,5	20026285	5BG5 513	012	1.7	16.6	18.3	91.5	690	2025	7
33x1,5	20038695	5BG5 514	013	1.7	17.5	19.5	97.5	825	2475	7
37x1,5	20026289	5BG5 524	018	1.7	20	22	110	965	2775	