

LMGSGO VG95218T61

Halogen-free light power cables for marine in acc. with VG 95218 p. 61



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).

STANDARDS / APPROVALS



VG 95218-61	General
VG 95218-2	Fire performance
VG 95218-2	Chemical behaviour

CABLE DESIGN

Conductor	Copper: plain, round stranded, in accordance with VG 95218 part 61
Core insulation material	Cross-linked LS0H
Screen construction	Braiding
Screen material	Copper, bare
Material outer sheath	Crosslinked polymer

ELECTRICAL PARAMETERS

Rated voltage U ₀ /U (Um)	300/500 V
Test voltage [kV]	2.5

THERMAL PARAMETERS

Max. conductor temperature [°C]	90
Laying temperature (min) [°C]	-15

CHEMICAL PARAMETERS

Flame retardant	In accordance with EN/IEC 60332-1-2
-	In accordance with EN/IEC 60332-1-24
Low smoke	acc. IEC/EN 61034-2
Halogen free	acc. IEC/EN 60754-1/2
Oil resistant	acc. IEC/EN 60811-404
Ozone resistance	Yes

MECHANICAL PARAMETERS

Permanent tensile strength (rule)	50 N/mm ²
Bending radius (rule)	5 x OD

CABLE PROPERTIES

Basic construction	SAP code	External code	Diameter conductor [mm]	Cable diameter (min) [mm]	Cable diameter (max) [mm]	Cable weight [kg/km]
2X1,5	20136683	T61A019	1.7	7	8	104
2X2,5	20136684	T61A020	2.2	7.7	8.8	138
3X1,5	20136167	T61A021	1.7	7.2	8.4	119
3G1,5	20136688	T61A022	1.7	7.2	8.4	119
3X2,5	20136168	T61A023	2.2	8	9.4	168
3G2,5	20136169	T61A024	2.2	8	9.4	168
4X1,5	20136170	T61A025	1.7	7.8	9.4	156
4X2,5	20136681	T61A026	2.2	8.7	10.4	208
5X1,5	20136682	T61A027	1.7	8.3	9.6	185
5G1,5	20136685	T61A028	1.7	8.3	9.6	184
5G2,5	20227684	T61A107	2.2	10.5	12	298
7X1,5	20355371	T61A116	1.7	9.3	10.8	240
7G1,5	20418338	T61A117	1.7	9.3	10.8	240
10X1,5	20418200	T61A120	1.7	10.8	12.5	330
10G1,5	20418339	T61A121	1.7	10.8	12.5	330
12X1,5	20418340	T61A122	1.7	12	13.5	370
14X1,5	20355372	T61A123	1.7	12.7	14.2	420
16X1,5	20418481	T61A124	1.7	13.2	14.8	470
24X1,5	20418221	T61A126	1.7	15.5	17.5	660
27X1,5	20418222	T61A127	1.7	16.6	18.3	720
33X1,5	20418482	T61A128	1.7	17.5	19.5	850
37X1,5	20418483	T61A129	1.7	20	22	1,000

CABLE PROPERTIES ELECTRIC

Basic construction	SAP code	External code	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]
2X1,5	20136683	T61A019	20	0.21
2X2,5	20136684	T61A020	25	0.36
3X1,5	20136167	T61A021	15	0.21
3G1,5	20136688	T61A022	20	0.21
3X2,5	20136168	T61A023	20	0.36
3G2,5	20136169	T61A024	25	0.36
4X1,5	20136170	T61A025	13	0.21
4X2,5	20136681	T61A026	15	0.36
5X1,5	20136682	T61A027	13	0.21
5G1,5	20136685	T61A028	13	0.21
5G2,5	20227684	T61A107	15	0.36
7X1,5	20355371	T61A116	12	0.21
7G1,5	20418338	T61A117	12	0.21
10X1,5	20418200	T61A120	11	0.21
10G1,5	20418339	T61A121	11	0.21
12X1,5	20418340	T61A122	10	0.21
14X1,5	20355372	T61A123	10	0.21
16X1,5	20418481	T61A124	9	0.21
24X1,5	20418221	T61A126	8	0.21
27X1,5	20418222	T61A127	7	0.21
33X1,5	20418482	T61A128	7	0.21
37X1,5	20418483	T61A129	6	0.21

The values of current carrying capacity are for continuous load at 45 °C ambient temperature, one cable installed on a surface.