MGSGO VG95218T60

Halogen-free power cables for marine in acc. with VG 95218 part 60



For fixed installation on ships in all locations and on open decks. The definitions for installation in BV 3400 apply.

STANDARDS

VG 95218-60	General
VG 95218-2	Fire performance
VG 95218-2	Chemical behaviour

CABLE DESIGN

Marketing text 1	Copper: plain, round stranded, in accordance with VG 95218 part 60
Core insulation material	Cross-linked LS0H
Screen construction	Braiding
Screen material	Copper, bare
Material outer sheath	Crosslinked polymer

ELECTRICAL & THERMAL PARAMETERS

Rated voltage U0/U (Um)	0.6/1 (1.2) kV
Test voltage [kV]	3.5
Max. operation temperature at conductor [°C]	90
Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
Min. Installation temperature [°C]	-15

CHEMICAL PROPERTIES

Halogen free	acc. BS EN 60754-1/2
Low smoke	acc. BS EN 61034-2
Oil resistant	acc. IEC/EN 60811-404
Ozone resistance	Yes

MECHANICAL PARAMETERS

50 N/mm²
5 x OD (4 x OD for F-types)

CABLE PROPERTIES

Basic construction	External code	Diameter conductor [mm]	Cable diameter (min) [mm]	Cable diameter (max) [mm]	Cable weight [kg/km]
1X4	MGSGO 1X4 (T60)	2.7	7.5	8.5	150
1X6	MGSGO 1X6 (T60)	3.3	8.4	9.4	160
1X10	MGSGO 1X10 (T60)	4.2	9.5	10.5	220
1X16	MGSGO 1X16 (T60)	5.3	10	11.2	290
1X25	MGSGO 1X25 (T60)	6.6	12	13	420
3X25	MGSGO 3X25 (T60)	6.6	24	25.6	1,460
1X35	MGSGO 1X35 (T60)	7.9	13	14	540
1X50	MGSGO 1X50 (T60)	9.1	15	16.2	680
1X70	MGSGO 1X70 (T60)	11	17	18.2	910
1X95	MGSGO 1X95 (T60)	12.9	19.5	20.5	1,230
1X95F	MGSGO-RF 1X95 (T60)	13	19.6	21	1,210
1X120	MGSGO 1X120 (T60)	14.5	21	22.4	1,510
1X120F	MGSGO-RF 1X120 (T60)	14.6	21.8	23	1,500
1X150	MGSGO 1X150 (T60)	16.2	23	24.5	1,790
1X150F	MGSGO-RF 1X150 (T60)	16.3	24	25.2	1,830
1X185	MGSGO 1X185 (T60)	18	25.5	27	2,200
1X185F	MGSGO-RF 1X185 (T60)	18.1	26.2	27.4	2,190
1X240	MGSGO 1X240 (T60)	20.6	29	30.5	2,850
1X240F	MGSGO-RF 1X240 (T60)	20.7	29	30.5	2,780
2X1,5	MGSGO 2X1,5 (T60)	1.7	11.5	12.7	250
2X2,5	MGSGO 2X2,5 (T60)	2.2	12.5	13.5	300
2X4	MGSGO 2X4 (T60)	2.7	13.4	14.7	360
2X6	MGSGO 2X6 (T60)	3.3	14.7	16	450
2X10	MGSGO 2X10 (T60)	4.2	16.2	17.9	590
2X16	MGSGO 2X16 (T60)	5.3	19	20.5	800
2X25	MGSGO 2X25 (T60)	6.6	22	24	1,130
3X1,5	MGSGO 3X1,5 (T60)	1.7	12	13.2	290
3X2,5	MGSGO 3X2,5 (T60)	2.2	13	14.2	350
3X4	MGSGO 3X4 (T60)	2.7	14	15.2	430
3X6	MGSGO 3X6 60	3.3	15.5	17	540
3X10	MGSGO 3X10 (T60)	4.2	17.6	19.1	740

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CABLE PROPERTIES

Basic construction	External code	Diameter conductor [mm]	Cable diameter (min) [mm]	Cable diameter (max) [mm]	Cable weight [kg/km]
3X25F	MGSGO-RF 3X25 (T60)	6.6	24	25.6	1,460
3X35	MGSGO 3X35 (T60)	7.9	26	28.2	1,870
3X35F	MGSGO-RF 3X35 (T60)	8	26.6	28.4	1,820
3X50	MGSGO 3X50 (T60)	9.1	30	32.4	2,460
3X50F	MGSGO-RF 3X50 (T60)	9.5	31	33.2	2,500
3X70F	MGSGO-RF 3X70 (T60)	11.2	36	38.2	3,460
3X95F	MGSGO-RF 3X95 (T60)	13	41.6	43.8	4,540
3X120F	MGSGO-RF 3X120 (T60)	14.6	44.5	46.5	5,350
4X4	MGSGO 4X4 (T60)	2.7	15.2	16.7	530
4X6	MGSGO 4X6 (T60)	3.3	17	18.5	660
4X10	MGSGO 4X10 (T60)	4.2	19.4	20.9	890
4X16F	MGSGO-RF 4X16 (T60)	5.3	22	23.7	1,210
4X25F	MGSGO-RF 4X25 (T60)	6.6	26.4	28.2	1,740
4X25	MGSGO 4X25 (T60)	6.6	26.4	28	1,810
4X35F	MGSGO-RF 4X35 (T60)	8	31	33	2,410
4X50F	MGSGO-RF 4X50 (T60)	9.5	34.3	37	3,190

CABLE PROPERTIES ELECTRIC

Basic construction	External code	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]
1X4	MGSGO 1X4 (T60)	45	0.57
1X6	MGSGO 1X6 (T60)	65	0.86
1X10	MGSGO 1X10 (T60)	80	1.43
1X16	MGSGO 1X16 (T60)	120	2.29
1X25	MGSGO 1X25 (T60)	150	3.58
3X25	MGSGO 3X25 (T60)	120	3.58
1X35	MGSGO 1X35 (T60)	195	5.01
1X50	MGSGO 1X50 (T60)	225	7.15
1X70	MGSGO 1X70 (T60)	295	10
1X95	MGSGO 1X95 (T60)	350	13.6
1X95F	MGSGO-RF 1X95 (T60)	350	13.6
1X120	MGSGO 1X120 (T60)	400	17.16
1X120F	MGSGO-RF 1X120 (T60)	400	17.16
1X150	MGSGO 1X150 (T60)	460	21.45

CABLE PROPERTIES ELECTRIC

Basic construction	External code	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]
3X25F	MGSGO-RF 3X25 (T60)	125	3.58
3X35	MGSGO 3X35 (T60)	125	5.01
3X35F	MGSGO-RF 3X35 (T60)	145	5.01
3X50	MGSGO 3X50 (T60)	145	7.15
3X50F	MGSGO-RF 3X50 (T60)	180	7.15
3X70F	MGSGO-RF 3X70 (T60)	225	10
3X95F	MGSGO-RF 3X95 (T60)	280	13.6
3X120F	MGSGO-RF 3X120 (T60)	320	17.16
4X4	MGSGO 4X4 (T60)	30	0.57
4X6	MGSGO 4X6 (T60)	40	0.86
4X10	MGSGO 4X10 (T60)	55	1.43
4X16F	MGSGO-RF 4X16 (T60)	75	2.29
4X25F	MGSGO-RF 4X25 (T60)	100	3.58
4X25	MGSGO 4X25 (T60)	100	3.58
4X35F	MGSGO-RF 4X35 (T60)	125	5.01
4X50F	MGSGO-RF 4X50 (T60)	155	7.15

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