

# 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**

**VG 95218-2**

**VG 95218-2**

General

Fire performance

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

## 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	13.4	14.7	360
3X6	MGSGO 3X6 (T60)	3.3	14.7	16	450
3X10	MGSGO 3X10 (T60)	4.2	16.2	17.9	590
3X16	MGSGO 3X16 (T60)	5.3	19	20.5	800
3X25	MGSGO 3X25 (T60)	6.6	22	24	1,130
3X35	MGSGO 3X35 (T60)	7.9	13	14	540
3X50	MGSGO 3X50 (T60)	9.1	15	16.2	680
3X70	MGSGO 3X70 (T60)	11	17	18.2	910
3X95	MGSGO 3X95 (T60)	12.9	19.5	20.5	1,230
3X120	MGSGO 3X120 (T60)	14.5	21	22.4	1,510
3X150	MGSGO 3X150 (T60)	16.2	23	24.5	1,790
3X185	MGSGO 3X185 (T60)	18	25.5	27	2,200
3X240	MGSGO 3X240 (T60)	20.6	29	30.5	2,850
3X300	MGSGO 3X300 (T60)	24	34	35.5	3,400
3X360	MGSGO 3X360 (T60)	28	40	41.5	4,000
3X420	MGSGO 3X420 (T60)	33	47	48.5	4,600
3X480	MGSGO 3X480 (T60)	38	54	55.5	5,200
3X540	MGSGO 3X540 (T60)	43	61	62.5	5,800
3X600	MGSGO 3X600 (T60)	48	68	69.5	6,400
3X660	MGSGO 3X660 (T60)	53	75	76.5	7,000
3X720	MGSGO 3X720 (T60)	58	82	83.5	7,600
3X780	MGSGO 3X780 (T60)	63	89	90.5	8,200
3X840	MGSGO 3X840 (T60)	68	96	97.5	8,800
3X900	MGSGO 3X900 (T60)	73	103	104.5	9,400
3X960	MGSGO 3X960 (T60)	78	110	111.5	10,000
3X1020	MGSGO 3X1020 (T60)	83	117	118.5	10,600
3X1080	MGSGO 3X1080 (T60)	88	124	125.5	11,200
3X1140	MGSGO 3X1140 (T60)	93	131	132.5	11,800
3X1200	MGSGO 3X1200 (T60)	98	138	139.5	12,400
3X1260	MGSGO 3X1260 (T60)	103	145	146.5	13,000
3X1320	MGSGO 3X1320 (T60)	108	152	153.5	13,600
3X1380	MGSGO 3X1380 (T60)	113	159	160.5	14,200
3X1440	MGSGO 3X1440 (T60)	118	166	167.5	14,800
3X1500	MGSGO 3X1500 (T60)	123	173	174.5	15,400
3X1560	MGSGO 3X1560 (T60)	128	180	181.5	16,000
3X1620	MGSGO 3X1620 (T60)	133	187	188.5	16,600
3X1680	MGSGO 3X1680 (T60)	138	194	195.5	17,200
3X1740	MGSGO 3X1740 (T60)	143	201	202.5	17,800
3X1800	MGSGO 3X1800 (T60)	148	208	209.5	18,400
3X1860	MGSGO 3X1860 (T60)	153	215	216.5	19,000
3X1920	MGSGO 3X1920 (T60)	158	222	223.5	19,600
3X1980	MGSGO 3X1980 (T60)	163	229	230.5	20,200
3X2040	MGSGO 3X2040 (T60)	168	236	237.5	20,800
3X2100	MGSGO 3X2100 (T60)	173	243	244.5	21,400
3X2160	MGSGO 3X2160 (T60)	178	250	251.5	22,000
3X2220	MGSGO 3X2220 (T60)	183	257	258.5	22,600
3X2280	MGSGO 3X2280 (T60)	188	264	265.5	23,200
3X2340	MGSGO 3X2340 (T60)	193	271	272.5	23,800
3X2400	MGSGO 3X2400 (T60)	198	278	279.5	24,400
3X2460	MGSGO 3X2460 (T60)	203	285	286.5	25,000
3X2520	MGSGO 3X2520 (T60)	208	292	293.5	25,600
3X2580	MGSGO 3X2580 (T60)	213	299	300.5	26,200
3X2640	MGSGO 3X2640 (T60)	218	306	307.5	26,800
3X2700	MGSGO 3X2700 (T60)	223	313	314.5	27,400
3X2760	MGSGO 3X2760 (T60)	228	320	321.5	28,000
3X2820	MGSGO 3X2820 (T60)	233	327	328.5	28,600
3X2880	MGSGO 3X2880 (T60)	238	334	335.5	29,200
3X2940	MGSGO 3X2940 (T60)	243	341	342.5	29,800
3X3000	MGSGO 3X3000 (T60)	248	348	349.5	30,400
3X3060	MGSGO 3X3060 (T60)	253	355	356.5	31,000
3X3120	MGSGO 3X3120 (T60)	258	362	363.5	31,600
3X3180	MGSGO 3X3180 (T60)	263	369	370.5	32,200
3X3240	MGSGO 3X3240 (T60)	268	376	377.5	32,800
3X3300	MGSGO 3X3300 (T60)	273	383	384.5	33,400
3X3360	MGSGO 3X3360 (T60)	278	390	391.5	34,000
3X3420	MGSGO 3X3420 (T60)	283	397	398.5	34,600
3X3480	MGSGO 3X3480 (T60)	288	404	405.5	35,200
3X3540	MGSGO 3X3540 (T60)	293	411	412.5	35,800
3X3600	MGSGO 3X3600 (T60)	298	418	419.5	36,400
3X3660	MGSGO 3X3660 (T60)	303	425	426.5	37,000
3X3720	MGSGO 3X3720 (T60)	308	432	433.5	37,600
3X3780	MGSGO 3X3780 (T60)	313	439	440.5	38,200
3X3840	MGSGO 3X3840 (T60)	318	446	447.5	38,800
3X3900	MGSGO 3X3900 (T60)	323	453	454.5	39,400
3X3960	MGSGO 3X3960 (T60)	328	460	461.5	40,000
3X4020	MGSGO 3X4020 (T60)	333	467	468.5	40,600
3X4080	MGSGO 3X4080 (T60)	338	474	475.5	41,200
3X4140	MGSGO 3X4140 (T60)	343	481	482.5	41,800
3X4200	MGSGO 3X4200 (T60)	348	488	489.5	42,400
3X4260	MGSGO 3X4260 (T60)	353	495	496.5	43,000
3X4320	MGSGO 3X4320 (T60)	358	502	503.5	43,600
3X4380	MGSGO 3X4380 (T60)	363	509	510.5	44,200
3X4440	MGSGO 3X4440 (T60)	368	516	517.5	44,800
3X4500	MGSGO 3X4500 (T60)	373	523	524.5	45,400
3X4560	MGSGO 3X4560 (T60)	378	530	531.5	46,000
3X4620	MGSGO 3X4620 (T60)	383	537	538.5	46,600
3X4680	MGSGO 3X4680 (T60)	388	544	545.5	47,200
3X4740	MGSGO 3X4740 (T60)	393	551	552.5	47,800
3X4800	MGSGO 3X4800 (T60)	398	558	559.5	48,400
3X4860	MGSGO 3X4860 (T60)	403	565	566.5	49,000
3X4920	MGSGO 3X4920 (T60)	408	572	573.5	49,600
3X4980	MGSGO 3X4980 (T60)	413	579	580.5	50,200
3X5040	MGSGO 3X5040 (T60)	418	586	587.5	50,800
3X5100	MGSGO 3X5100 (T60)	423	593	594.5	51,400
3X5160	MGSGO 3X5160 (T60)	428	600	601.5	52,000
3X5220	MGSGO 3X5220 (T60)	433	607	608.5	52,600
3X5280	MGSGO 3X5280 (T60)	438	614	615.5	53,200
3X5340	MGSGO 3X5340 (T60)	443	621	622.5	53,800
3X5400	MGSGO 3X5400 (T60)	448	628	629.5	54,400
3X5460	MGSGO 3X5460 (T60)	453	635	636.5	55,000
3X5520	MGSGO 3X5520 (T60)	458	642	643.5	55,600
3X5580	MGSGO 3X5580 (T60)	463	649	650.5	56,200
3X5640	MGSGO 3X5640 (T60)	468	656	657.5	56,800
3X5700	MGSGO 3X5700 (T60)	473	663	664.5	57,400
3X5760	MGSGO 3X5760 (T60)	478	670	671.5	58,000
3X5820	MGSGO 3X5820 (T60)	483	677	678.5	58,600
3X5880	MGSGO 3X5880 (T60)	488	684	685.5	59,200
3X5940	MGSGO 3X5940 (T60)	493	691	692.5	59,800
3X6000	MGSGO 3X6000 (T60)	498	698	699.5	60,400
3X6060	MGSGO 3X6060 (T60)	503	705	706.5	61,000
3X6120	MGSGO 3X6120 (T60)	508	712	713.5	61,600
3X6180	MGSGO 3X6180 (T60)	513	719	720.5	62,200
3X6240	MGSGO 3X6240 (T60)	518	726	727.5	62,800
3X6300	MGSGO 3X6300 (T60)	523	733	734.5	63,400
3X6360	MGSGO 3X6360 (T60)	528	740	741.5	64,000
3X6420	MGSGO 3X6420 (T60)	533	747	748.5	64,600
3X6480	MGSGO 3X6480 (T60)	538	754	755.5	65,200
3X6540	MGSGO 3X6540 (T60)	543	761	762.5	65,800
3X6600	MGSGO 3X6600 (T60)	548	768	769.5	66,400
3X6660	MGSGO 3X6660 (T60)	553	775	776.5	67,000
3X6720	MGSGO 3X6720 (T60)	558	782	783.5	67,600
3X6780	MGSGO 3X6780 (T60)	563	789	790.5	68,200
3X6840	MGSGO 3X6840 (T60)	568	796	797.5	68,800
3X6900	MGSGO 3X6900 (T60)	573	803	804.5	69,400
3X6960	MGSGO 3X6960 (T60)	578	810	811.5	70,000
3X7020	MGSGO 3X7020 (T60)	583	817	818.5	70,600
3X7080	MGSGO 3X7080 (T60)	588	824	825.5	71,200
3X7140	MGSGO 3X7140 (T60)	593	831	832.5	71,800
3X7200	MGSGO 3X7200 (T60)	5			

## 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 (Isec) [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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