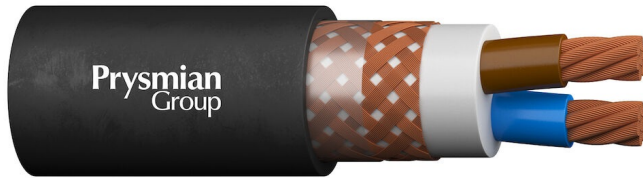


## MGSGO VG95218T60

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. The cables are certified from the Bundesamt für Ausrüstung, Informationstechnik und Nutzung der Bundeswehr (BAAINBw).

### STANDARDS / APPROVALS



VG 95218-60

VG 95218-2

VG 95218-2

General

Fire performance

Chemical behaviour

### CABLE DESIGN

Conductor	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 PARAMETERS

Rated voltage U <sub>0</sub> /U (Um)	0.6/1 (1.2) kV
Test voltage [kV]	3.5

### THERMAL PARAMETERS

Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
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 <sup>2</sup>
Bending radius (rule)	5 x OD (4 x OD for F-types)

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## CABLE PROPERTIES

Basic construction	SAP code	External code	Diameter conductor [mm]	Cable diameter (min) [mm]	Cable diameter (max) [mm]	Cable weight [kg/km]
1X4	20173653	T060A001	2.7	7.5	8.5	150
1X6	20113199	T060A002	3.3	8.4	9.4	160
1X10	20173654	T060A003	4.2	9.5	10.5	220
1X16	20155662	T060A004	5.3	10	11.2	290
1X25	20113198	T060A005	6.6	12	13	420
1X35	20026164	T060A006	7.9	13	14	540
1X50	20113200	T060A007	9.1	15	16.2	680
1X70	20113831	T060A008	11	17	18.2	910
1X95	20008525	T060A009	12.9	19.5	20.5	1,230
1X95F	20026167	T060A016	13	19.6	21	1,210
1X120	20026165	T060A010	14.5	21	22.4	1,510
1X120F	20160099	T060A017	14.6	21.8	23	1,500
1X150	20113197	T060A011	16.2	23	24.5	1,790
1X150F	20113377	T060A018	16.3	24	25.2	1,830
1X185	20016059	T060A012	18	25.5	27	2,200
1X185F	20026166	T060A015	18.1	26.2	27.4	2,190
1X240	20113832	T060A013	20.6	29	30.5	2,850
1X240F	20026258	T060A019	20.7	29	30.5	2,780
2X1,5	20136687	T060B034	1.7	11.5	12.7	250
2X2,5	20135967	T060B035	2.2	12.5	13.5	300
2X4	20135392	T060B036	2.7	13.4	14.7	360
2X6	20135393	T060B037	3.3	14.7	16	450
2X10	20135394	T060B038	4.2	16.2	17.9	590
2X16	20154011	T060B039	5.3	19	20.5	800
2X25	20154012	T060B040	6.6	22	24	1,130
3X1,5	20135395	T060B041	1.7	12	13.2	290
3X2,5	20153438	T060B042	2.2	13	14.2	350
3X4	20135396	T060B043	2.7	14	15.2	430
3X6	20136273	T060B044	3.3	15.5	17	540
3X10	20136163	T060B045	4.2	17.6	19.1	740
3X16	20016239	T060B046	5.3	20	21.6	1,010
3X16F	20135963	T060B065	5.3	20	21.6	970
3X25	20016240	T060B047	6.6	24	25.6	1,460

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## CABLE PROPERTIES

Basic construction	SAP code	External code	Diameter conductor [mm]	Cable diameter (min) [mm]	Cable diameter (max) [mm]	Cable weight [kg/km]
3X25F	20135964	T060B066	6.6	24	25.6	1,460
3X35	20016241	T060B048	7.9	26	28.2	1,870
3X35F	20160098	T060B067	8	26.6	28.4	1,820
3X50	20016242	T060B049	9.1	30	32.4	2,460
3X50F	20135965	T060B068	9.5	31	33.2	2,500
3X70F	20016243	T060B063	11.2	36	38.2	3,460
3X95F	20016244	T060B062	13	41.6	43.8	4,540
3X120F	20016245	T060B069	14.6	44.5	46.5	5,350
4X4	20136164	T060B053	2.7	15.2	16.7	530
4X6	20136165	T060B054	3.3	17	18.5	660
4X10	20136166	T060B055	4.2	19.4	20.9	890
4X16F	20141936	T060B070	5.3	22	23.7	1,210
4X25	20163664	T060B057	6.6	26.4	28	1,810
4X25F	20136686	T060B071	6.6	26.4	28.2	1,740
4X35F	20135968	T060B064	8	31	33	2,410
4X50F	20135966	T060B072	9.5	34.3	37	3,190

## CABLE PROPERTIES ELECTRIC

Basic construction	SAP code	External code	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]
1X4	20173653	T060A001	45	0.57
1X6	20113199	T060A002	65	0.86
1X10	20173654	T060A003	80	1.43
1X16	20155662	T060A004	120	2.29
1X25	20113198	T060A005	150	3.58
1X35	20026164	T060A006	195	5.01
1X50	20113200	T060A007	225	7.15
1X70	20113831	T060A008	295	10
1X95	20008525	T060A009	350	13.6
1X95F	20026167	T060A016	350	13.6
1X120	20026165	T060A010	400	17.16
1X120F	20160099	T060A017	400	17.16
1X150	20113197	T060A011	460	21.45
1X150F	20113377	T060A018	460	21.45
1X185	20016059	T060A012	520	26.45
1X185F	20026166	T060A015	520	26.45
1X240	20113832	T060A013	620	34.32
1X240F	20026258	T060A019	620	34.32
2X1,5	20136687	T060B034	22	0.21
2X2,5	20135967	T060B035	31	0.36
2X4	20135392	T060B036	40	0.57
2X6	20135393	T060B037	55	0.86
2X10	20135394	T060B038	75	1.43
2X16	20154011	T060B039	95	2.29
2X25	20154012	T060B040	125	3.58
3X1,5	20135395	T060B041	20	0.21
3X2,5	20153438	T060B042	25	0.36
3X4	20135396	T060B043	35	0.57
3X6	20136273	T060B044	45	0.86
3X10	20136163	T060B045	65	1.43
3X16	20016239	T060B046	90	2.29
3X16F	20135963	T060B065	90	2.29
3X25	20016240	T060B047	120	3.58

## CABLE PROPERTIES ELECTRIC

Basic construction	SAP code	External code	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]
3X25F	20135964	T060B066	125	3.58
3X35	20016241	T060B048	125	5.01
3X35F	20160098	T060B067	145	5.01
3X50	20016242	T060B049	145	7.15
3X50F	20135965	T060B068	180	7.15
3X70F	20016243	T060B063	225	10
3X95F	20016244	T060B062	280	13.6
3X120F	20016245	T060B069	320	17.16
4X4	20136164	T060B053	30	0.57
4X6	20136165	T060B054	40	0.86
4X10	20136166	T060B055	55	1.43
4X16F	20141936	T060B070	75	2.29
4X25	20163664	T060B057	100	3.58
4X25F	20136686	T060B071	100	3.58
4X35F	20135968	T060B064	125	5.01
4X50F	20135966	T060B072	155	7.15

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