

# Ships Power Cables MSGG halogen-free, copper screened



## Technical data

- According to VG 95218 part 60, screened. The core insulation continues to function during a fire without the need for extra flame-proof taping
- **Conductor operating temperature** max. +85°C
- **Nominal voltage**  $U_0/U$  0,6/1 kV
- **Minimum bending radius** approx. 5x cable  $\emptyset$

## Cable construction

- Stranded copper conductors
- Heat-resistant EPR-insulation 3GI3, to DIN VDE 0207 part 20
- Cores stranded in layers with optimal lay-length
- Filling compound covering all cores
- Foil screen
- Plain copper braided screen
- Polyester tape
- Chloroprene based outer sheath 5GM3, to DIN VDE 0207 part 21
- Jacket colour black

## Properties

- halogen-free and flame retardant
- **Colour code**
  - 1 core: black
  - 2 cores: black/blue
  - 3 cores: black/blue/brown
  - 4 cores: black/blue/brown/black
- **Approved by** BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

## Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## Application

Halogen-free power cables for marine craft are used for permanent installation on ships in all rooms and open decks as control and power cables.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer $\emptyset$ ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.	Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer $\emptyset$ ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
59270	1 x 4,0	9,0	81,0	170,0	12	59291	3 x 1,5	15,5	125,0	380,0	16
59271	1 x 6,0	10,0	104,0	200,0	10	59292	3 x 2,5	16,5	161,0	440,0	14
59272	1 x 10,0	11,0	149,0	260,0	8	59293	3 x 4,0	18,0	215,0	520,0	12
59273	1 x 16,0	12,0	214,0	340,0	6	59294	3 x 6,0	19,0	282,0	640,0	10
59274	1 x 25,0	14,0	311,0	480,0	4	59295	3 x 10,0	21,5	417,0	840,0	8
59275	1 x 35,0	15,5	416,0	590,0	2	59296	3 x 16,0	24,0	636,0	1110,0	6
59276	1 x 50,0	17,5	572,0	760,0	1	59297	3 x 25,0	28,0	924,0	1610,0	4
59277	1 x 70,0	19,5	779,0	980,0	2/0	59298	3 x 35,0	31,0	1253,0	2020,0	2
59278	1 x 95,0	22,0	1034,0	1300,0	3/0	59299	3 x 50,0	35,0	1703,0	2610,0	1
59279	1 x 120,0	23,5	1316,0	1550,0	4/0	59300	3 x 70,0	39,0	2413,0	3450,0	2/0
59280	1 x 150,0	26,0	1615,0	1850,0	300 kcmil	59301	3 x 95,0	45,5	3192,0	4710,0	3/0
59281	1 x 185,0	28,5	1968,0	2300,0	350 kcmil	59302	3 x 120,0	49,5	3975,0	5680,0	4/0
59282	1 x 240,0	31,5	2506,0	2950,0	500 kcmil	59303	4 x 4,0	19,0	284,0	620,0	12
59283	1 x 300,0	34,4	3345,0	3600,0	600 kcmil	59304	4 x 6,0	20,5	371,0	750,0	10
59284	2 x 1,5	15,0	105,0	340,0	16	59305	4 x 10,0	23,0	545,0	1010,0	8
59285	2 x 2,5	16,0	132,0	400,0	14	59306	4 x 16,0	26,0	796,0	1400,0	6
59286	2 x 4,0	17,0	170,0	460,0	12	59307	4 x 25,0	30,5	1170,0	2000,0	4
59287	2 x 6,0	18,5	217,0	570,0	10	59308	4 x 35,0	34,0	1578,0	2530,0	2
59288	2 x 10,0	20,0	307,0	720,0	8	59309	4 x 50,0	38,5	2278,0	3280,0	1
59289	2 x 16,0	22,5	471,0	940,0	6	59310	4 x 70,0	44,0	3090,0	4450,0	2/0
59290	2 x 25,0	26,5	670,0	1300,0	4	59311	4 x 95,0	50,5	4110,0	5930,0	3/0

Dimensions and specifications may be changed without prior notice.