

# Ships Power Cables MGCH 0,6/1kV

halogen-free according to DIN 89 158/99



## Technical data

- As per DIN 89160 edition 1998 and IEC 60092-353
- **Temperature range**  
max. +85°C conductor temperature
- **Min. installation temperature**  
-10°C
- **Nominal voltage**  $U_0/U$  0,6/1 kV
- **Minimum bending radius**  
approx. 6x cable Ø

## Cable construction

- Stranded, bare copper conductors to DIN VDE 0295 cl. 2, BS 6360 cl. 2 and IEC 60228 cl. 2
- HEPR core insulation (Hard grade EPDM)
- Cores stranded in layers with optimal lay-length
- Overall filled inner sheath, covered by filling compound
- Separator-foil
- Bare copper braided screen
- Separator-foil
- Outer sheath, Polyolefin basis-compound
- Sheath colour  
black up to 5 cores  
grey 7 and more cores

## Properties

- **Colour code** <sup>1)</sup>  
1 core: natural colour  
2 cores: black/blue  
3 cores: black/blue/brown  
4 cores: black/blue/brown/black  
5 cores: black/blue/brown/black/black  
6 cores and more: all cores natural coloured, printed with numbers, starting in center with number 1
- **Approved by**  
Germanischer Lloyd, Lloyds Register of Shipping, American Bureau of Shipping, Det Norske Veritas, Bureau Veritas, Verband Deutscher Elektrotechniker, Russian Maritime Register of Shipping and Registro Italiano Navale are in preparation
- Flame retardant according to SOLAS definition (according to IEC 60332-3 category A)

## Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- <sup>1)</sup> Cables with green-yellow marked core on request.
- Halogenated type MGG will be substituted according to DIN, edition 1998 through the halogen-free type MGCH

## Application

For stationary installation beneath the first metal deck level.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
59000	1 x 1,5	6,5	48,0	85,0	16
59001	1 x 2,5	7,0	60,0	90,0	14
59002	1 x 4,0	7,5	81,0	110,0	12
59003	1 x 6,0	8,5	104,0	140,0	10
59004	1 x 10,0	9,5	149,0	190,0	8
59005	1 x 16,0	10,0	214,0	270,0	6
59006	1 x 25,0	12,0	311,0	380,0	4
59007	1 x 35,0	13,0	416,0	480,0	2
59008	1 x 50,0	15,0	572,0	660,0	1
59009	1 x 70,0	17,0	779,0	900,0	2/0
59010	1 x 95,0	19,0	1034,0	1170,0	3/0
59011	1 x 120,0	21,0	1316,0	1410,0	4/0
59012	1 x 150,0	23,0	1615,0	1750,0	300 kcmil
59013	1 x 185,0	25,5	1968,0	2160,0	350 kcmil
59014	1 x 240,0	28,5	2506,0	2770,0	500 kcmil
59015	1 x 300,0	31,0	3186,0	3440,0	600 kcmil
59016	2 x 1,5	11,0	105,0	180,0	16
59017	2 x 2,5	12,0	132,0	220,0	14
59018	2 x 4,0	13,0	170,0	280,0	12
59019	2 x 6,0	14,5	217,0	380,0	10
59020	2 x 10,0	17,0	307,0	500,0	8
59021	2 x 16,0	19,5	471,0	710,0	6
59022	2 x 25,0	22,5	670,0	1020,0	4
59023	3 x 1,5	12,0	125,0	210,0	16
59024	3 x 2,5	12,5	161,0	260,0	14
59025	3 x 4,0	13,5	215,0	330,0	12
59026	3 x 6,0	15,5	282,0	450,0	10

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
59027	3 x 10,0	17,5	417,0	620,0	8
59030	3 x 16,0	19,5	636,0	870,0	6
59031	3 x 25,0	23,5	924,0	1280,0	4
59032	3 x 35,0	26,0	1233,0	1680,0	2
59033	3 x 50,0	29,0	1703,0	2180,0	1
59034	3 x 70,0	34,5	2413,0	3020,0	2/0
59035	3 x 95,0	39,0	3192,0	4050,0	3/0
59036	3 x 120,0	43,0	3975,0	5000,0	4/0
59037	4 x 1,5	12,5	147,0	240,0	16
59038	4 x 2,5	13,5	190,0	300,0	14
59039	4 x 4,0	15,0	284,0	430,0	12
59040	4 x 6,0	16,5	371,0	540,0	10
59041	4 x 10,0	19,0	545,0	780,0	8
59042	4 x 16,0	21,0	796,0	1090,0	6
59043	4 x 25,0	26,0	1170,0	1630,0	4
59044	4 x 35,0	28,5	1578,0	2120,0	2
59045	4 x 50,0	32,5	2278,0	2750,0	1
59046	4 x 70,0	38,5	3090,0	3900,0	2/0
59047	4 x 95,0	44,0	4110,0	5160,0	3/0
59048	5 x 1,5	13,5	171,0	290,0	16
59049	7 x 1,5	14,0	209,0	380,0	16
59050	10 x 1,5	16,5	318,0	450,0	16
59051	12 x 1,5	18,0	353,0	500,0	16
59052	14 x 1,5	18,5	392,0	560,0	16
59053	16 x 1,5	19,5	432,0	630,0	16
59054	19 x 1,5	20,5	486,0	710,0	16
59055	24 x 1,5	23,5	601,0	880,0	16

Dimensions and specifications may be changed without prior notice.