

# Ships Power Cables MGH 0,6/1kV (MGG\*) halogen-free, according to DIN 89 160/99



## 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. 4x cable  $\varnothing$

## Cable structure

- Stranded, bare copper conductors to DIN VDE 0295 cl. 2, BS 6360 cl. 2 and IEC 60228 cl. 2
- HEPR core insulation (Hard grade EPR)
- Cores stranded in layers with optimal lay-length
- Overall filled inner sheath, covered by filling compound
- Outer sheath, Polyolefin basis-compound, flame retardant
- 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 MGH

## Application

For stationary installation beneath the first metal deck level.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer $\varnothing$ ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.	Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer $\varnothing$ ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
59060	1 x 1,5	4,5	14,0	60,0	16	59087	3 x 10	16,5	288,0	510,0	8
59061	1 x 2,5	5,0	24,0	70,0	14	59088	3 x 16	18,5	461,0	750,0	6
59062	1 x 4	6,0	38,0	80,0	12	59089	3 x 25	22,0	720,0	1130,0	4
59063	1 x 6	7,5	58,0	110,0	10	59090	3 x 35	24,5	1008,0	1500,0	2
59064	1 x 10	8,5	96,0	150,0	8	59091	3 x 50	28,0	1440,0	1970,0	1
59065	1 x 16	9,5	154,0	220,0	6	59092	3 x 70	33,0	2016,0	2770,0	2/0
59066	1 x 25	11,0	240,0	320,0	4	59093	3 x 95	37,0	2736,0	3680,0	3/0
59067	1 x 35	12,0	336,0	420,0	2	59094	3 x 120	41,0	3456,0	4580,0	4/0
59068	1 x 50	13,5	480,0	560,0	1	59095	4 x 1,5	11,0	58,0	200,0	16
59069	1 x 70	15,5	672,0	780,0	2/0	59096	4 x 2,5	12,0	96,0	250,0	14
59070	1 x 95	17,5	912,0	1030,0	3/0	59097	4 x 4	13,5	154,0	330,0	12
59071	1 x 120	19,5	1152,0	1290,0	4/0	59098	4 x 6	15,5	230,0	440,0	10
59072	1 x 150	21,5	1440,0	1590,0	300 kcmil	59099	4 x 10	18,0	384,0	660,0	8
59073	1 x 185	23,5	1776,0	1960,0	350 kcmil	59100	4 x 16	21,0	614,0	950,0	6
59074	1 x 240	26,5	2304,0	2560,0	500 kcmil	59101	4 x 25	24,5	960,0	1460,0	4
59075	1 x 300	29,5	2880,0	3200,0	600 kcmil	59102	4 x 35	27,0	1344,0	1920,0	2
59076	2 x 1,5	10,0	29,0	130,0	16	59103	4 x 50	31,0	1920,0	2520,0	1
59077	2 x 2,5	11,0	48,0	170,0	14	59104	4 x 70	36,5	2688,0	3550,0	2/0
59078	2 x 4	12,0	77,0	220,0	12	59105	4 x 95	41,0	3648,0	4730,0	3/0
59079	2 x 6	13,0	115,0	280,0	10	59106	5 x 1,5	12,0	72,0	230,0	16
59080	2 x 10	15,5	192,0	410,0	8	59107	7 x 1,5	13,0	101,0	290,0	16
59081	2 x 16	17,5	307,0	590,0	6	59108	10 x 1,5	15,5	144,0	360,0	16
59082	2 x 25	21,0	480,0	880,0	4	59109	12 x 1,5	16,0	173,0	410,0	16
59083	3 x 1,5	10,5	43,0	160,0	16	59110	14 x 1,5	17,0	202,0	470,0	16
59084	3 x 2,5	11,5	72,0	210,0	14	59111	16 x 1,5	18,0	230,0	530,0	16
59085	3 x 4	12,5	115,0	270,0	12	59112	19 x 1,5	19,5	274,0	610,0	16
59086	3 x 6	14,0	173,0	350,0	10	59113	24 x 1,5	22,0	346,0	760,0	16

Dimensions and specifications may be changed without prior notice. (RW01)