

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 \emptyset

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
- 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 code¹⁾**
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 mm².
- ¹⁾ 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 ²	Outer \emptyset ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.	Part No.	No. cores x cross-sec. mm ²	Outer \emptyset ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
59000	1 x 1,5	6,5	48,0	85,0	16	59027	3 x 10	17,5	417,0	620,0	8
59001	1 x 2,5	7,0	60,0	90,0	14	59030	3 x 16	19,5	636,0	870,0	6
59002	1 x 4	7,5	81,0	110,0	12	59031	3 x 25	23,5	924,0	1280,0	4
59003	1 x 6	8,5	104,0	140,0	10	59032	3 x 35	26,0	1233,0	1680,0	2
59004	1 x 10	9,5	149,0	190,0	8	59033	3 x 50	29,0	1703,0	2180,0	1
59005	1 x 16	10,0	214,0	270,0	6	59034	3 x 70	34,5	2413,0	3020,0	2/0
59006	1 x 25	12,0	311,0	380,0	4	59035	3 x 95	39,0	3192,0	4050,0	3/0
59007	1 x 35	13,0	416,0	480,0	2	59036	3 x 120	43,0	3975,0	5000,0	4/0
59008	1 x 50	15,0	572,0	660,0	1	59037	4 x 1,5	12,5	147,0	240,0	16
59009	1 x 70	17,0	779,0	900,0	2/0	59038	4 x 2,5	13,5	190,0	300,0	14
59010	1 x 95	19,0	1034,0	1170,0	3/0	59039	4 x 4	15,0	284,0	430,0	12
59011	1 x 120	21,0	1316,0	1410,0	4/0	59040	4 x 6	16,5	371,0	540,0	10
59012	1 x 150	23,0	1615,0	1750,0	300 kcmil	59041	4 x 10	19,0	545,0	780,0	8
59013	1 x 185	25,5	1968,0	2160,0	350 kcmil	59042	4 x 16	21,0	796,0	1090,0	6
59014	1 x 240	28,5	2506,0	2770,0	500 kcmil	59043	4 x 25	26,0	1170,0	1630,0	4
59015	1 x 300	31,0	3186,0	3440,0	600 kcmil	59044	4 x 35	28,5	1578,0	2120,0	2
59016	2 x 1,5	11,0	105,0	180,0	16	59045	4 x 50	32,5	2278,0	2750,0	1
59017	2 x 2,5	12,0	132,0	220,0	14	59046	4 x 70	38,5	3090,0	3900,0	2/0
59018	2 x 4	13,0	170,0	280,0	12	59047	4 x 95	44,0	4110,0	5160,0	3/0
59019	2 x 6	14,5	217,0	380,0	10	59048	5 x 1,5	13,5	171,0	290,0	16
59020	2 x 10	17,0	307,0	500,0	8	59049	7 x 1,5	14,0	209,0	380,0	16
59021	2 x 16	19,5	471,0	710,0	6	59050	10 x 1,5	16,5	318,0	450,0	16
59022	2 x 25	22,5	670,0	1020,0	4	59051	12 x 1,5	18,0	353,0	500,0	16
59023	3 x 1,5	12,0	125,0	210,0	16	59052	14 x 1,5	18,5	392,0	560,0	16
59024	3 x 2,5	12,5	161,0	260,0	14	59053	16 x 1,5	19,5	432,0	630,0	16
59025	3 x 4	13,5	215,0	330,0	12	59054	19 x 1,5	20,5	486,0	710,0	16
59026	3 x 6	15,5	282,0	450,0	10	59055	24 x 1,5	23,5	601,0	880,0	16

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