

Ship's Power Cables MGCH 0,6/1 kV (MGCG*)

halogen-free, according to DIN 89158/98



Technical data

- As per DIN 89160 edition 1998 and IEC 600292-353
- **Temperature range**
max. +85°C conductor temperature
- Min. **installation temperature** -10°C
- **Nominal voltage** U_0/U 0,6/1 kV
- **Bending radius** approx. 6xcable \varnothing
- **Approved by**
Germanischer Lloyd, Lloyd's 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)

Cable structure

- Stranded, bare copper conductors to DIN VDE 0295 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

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

Application

For stationary installation beneath the first metal deck level.

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

Part No.	No. cores x cross-sec. mm ²	Outer \varnothing ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. ^{*)}
59027	3 x 10	17,5	417	620	8
59030	3 x 16	19,5	636	870	6
59031	3 x 25	23,5	924	1280	4
59032	3 x 35	26,0	1233	1680	2
59033	3 x 50	29,0	1703	2180	1
59034	3 x 70	34,5	2413	3020	2/0
59035	3 x 95	39,0	3192	4050	3/0
59036	3 x 120	43,0	3975	5000	4/0
59037	4 x 1,5	12,5	147	240	16
59038	4 x 2,5	13,5	190	300	14
59039	4 x 4	15,0	284	430	12
59040	4 x 6	16,5	371	540	10
59041	4 x 10	19,0	545	780	8
59042	4 x 16	21,0	796	1090	6
59043	4 x 25	26,0	1170	1650	4
59044	4 x 35	28,5	1578	2120	2
59045	4 x 50	32,5	2278	2750	1
59046	4 x 70	38,5	3090	3900	2/0
59047	4 x 95	44,0	4110	5160	3/0
59048	5 x 1,5	13,5	171	290	16
59049	7 x 1,5	14,0	209	380	16
59050	10 x 1,5	16,5	318	450	16
59051	12 x 1,5	18,0	353	500	16
59052	14 x 1,5	18,5	392	560	16
59053	16 x 1,5	19,5	432	630	16
59054	19 x 1,5	20,5	486	710	16
59055	24 x 1,5	23,5	601	880	16

^{*)} Note

AWG sizes are approximate equivalent values.
The actual cross-section is in mm² – see page T 15.

¹⁾ Halogenated type MGG will be substituted according to DIN, edition 1998 through the halogen-free type MGCH.