



Shipwiring and Marine Cables

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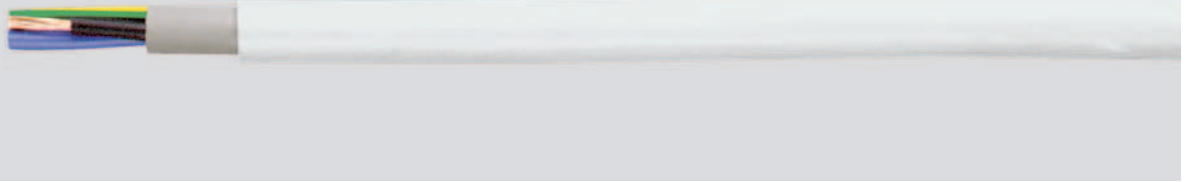
We offer shipwiring and marine cables with approvals of the Germanischer Lloyd, Lloyds Register of Shipping, American Bureau of Shipping, Det Norske Veritas, Bureau Veritas, USSR Register of Shipping, Verband Deutscher Elektrotechniker.

Great parts of the programm are available within short time from our stock. Cutting lengths are available for additional charge. On request we send with each order a corresponding production or company certificate.

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Ships Power cables MYY-J and MYY-O



Technical data

- According to IEC 92-3
- **Nominal voltage** 250 V
- **Approved by**
Germanischer Lloyd, Lloyds Register of Shipping, Bureau Veritas and other approvals available (Det Norske Veritas etc.)

Cable structure

- Plain copper conductors, stranded type
- PVC core insulation
- 2 to 5 cores laid up
- Elastic filling compound
- PVC outer sheath, colour light grey

Colour code

J-Types	O-Types
2 cores: –	black/blue
3 cores:	
green-yellow/ black/blue	black/blue/ brown
4 cores:	
green-yellow/ black/blue/brown	black/blue/ brown/black
5 cores:	
green-yellow/ black/blue/ brown/black	black/blue/ brown/black/ black

Application

Ships power cables for all uses recommended in IEC 92-3.

Part No.	No. cores x cross-sec. mm ²	Outer ∅ ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
MYY-J					
59201	3G1,5	9,5	43	140	16
59202	4G1,5	10,0	58	176	16
59203	5G1,5	11,0	72	210	16
59204	3G2,5	11,0	72	224	14
59205	4G2,5	12,0	96	227	14

Part No.	No. cores x cross-sec. mm ²	Outer ∅ ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
MYY-O					
59206	2x1,5	9,0	29	128	16
59207	3x1,5	9,5	43	140	16
59208	4x1,5	10,0	58	176	16
59209	5x1,5	11,0	72	210	16
59210	3x2,5	11,0	72	224	14
59211	4x2,5	12,0	96	227	14

G = with green-yellow earth core
X = without green-yellow earth core (OZ)

*) Note

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

Ships Power Cables MGH 0,6/1 kV (MGG*)

halogen-free, according to DIN 89160/98



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. 4x cable \varnothing
- **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)

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

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. ^{*)}
59060	1 x 1,5	4,5	14	60	16
59061	1 x 2,5	5,0	24	70	14
59062	1 x 4	6,0	38	80	12
59063	1 x 6	7,5	58	110	10
59064	1 x 10	8,5	96	150	8
59065	1 x 16	9,5	154	220	6
59066	1 x 25	11,0	240	320	4
59067	1 x 35	12,0	336	420	2
59068	1 x 50	13,5	480	560	1
59069	1 x 70	15,5	672	780	2/0
59070	1 x 95	17,5	912	1030	3/0
59071	1 x 120	19,5	1152	1290	4/0
59072	1 x 150	21,5	1440	1590	300 kcmil
59073	1 x 185	23,5	1776	1960	350 kcmil
59074	1 x 240	26,5	2304	2560	500 kcmil
59075	1 x 300	29,5	2880	3200	600 kcmil
59076	2 x 1,5	10,0	29	130	16
59077	2 x 2,5	11,0	48	170	14
59078	2 x 4	12,0	77	220	12
59079	2 x 6	13,0	115	280	10
59080	2 x 10	15,5	192	410	8
59081	2 x 16	17,5	307	590	6
59082	2 x 25	21,0	480	880	4
59083	3 x 1,5	10,5	43	160	16
59084	3 x 2,5	11,5	72	210	14
59085	3 x 4	12,5	115	270	12
59086	3 x 6	14,0	173	350	10

Part No.	No. cores x cross-sec. mm ²	Outer \varnothing ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. ^{*)}
59087	3 x 10	16,5	288	510	8
59088	3 x 16	18,5	461	750	6
59089	3 x 25	22,0	720	1130	4
59090	3 x 35	24,5	1008	1500	2
59091	3 x 50	28,0	1440	1970	1
59092	3 x 70	33,0	2016	2770	2/0
59093	3 x 95	37,0	2736	3680	3/0
59094	3 x 120	41,0	3456	4580	4/0
59095	4 x 1,5	11,0	58	200	16
59096	4 x 2,5	12,0	96	250	14
59097	4 x 4	13,5	154	330	12
59098	4 x 6	15,5	230	440	10
59099	4 x 10	18,0	384	660	8
59100	4 x 16	21,0	614	950	6
59101	4 x 25	24,5	960	1460	4
59102	4 x 35	27,0	1344	1920	2
59103	4 x 50	31,0	1920	2520	1
59104	4 x 70	36,5	2688	3530	2/0
59105	4 x 95	41,0	3648	4730	3/0
59106	5 x 1,5	12,0	72	230	16
59107	7 x 1,5	13,0	101	290	16
59108	10 x 1,5	15,5	144	360	16
59109	12 x 1,5	16,0	173	410	16
59110	14 x 1,5	17,0	202	470	16
59111	16 x 1,5	18,0	230	535	16
59112	19 x 1,5	19,5	274	610	16
59113	24 x 1,5	22,0	346	760	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 MGH.

Ships 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, 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)

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

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 kcmil
59013	1 x 185	25,5	1968	2160	350 kcmil
59014	1 x 240	28,5	2506	2770	500 kcmil
59015	1 x 300	31,0	3186	3440	600 kcmil
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	350	12
59026	3 x 6	15,5	282	450	10

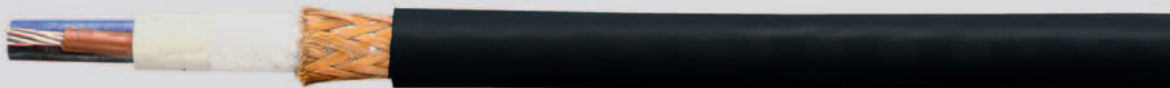
Part No.	No. cores x cross-sec. mm ²	Outer \varnothing ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no.*)
59027	3 x 10	17,5	417	620	8
59030	3 x 16	19,5	636	870	6
59031	3 x 25	23,5	924	1280	4
59032	3 x 35	26,0	1233	1680	2
59033	3 x 50	29,0	1703	2180	1
59034	3 x 70	34,5	2413	3020	2/0
59035	3 x 95	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	1630	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.

Ships Power Cables MSGG halogen-free, copper screened



Technical data

- According to VG 95 218 part 50, screened. Insulation remains operational for 20 min. under directly exposed to open flame according to DIN VDE 0472, part 814 and IEC 60331
- **Conductor operating temperature** approx. +85°C
- **Min. installation temperature** -10°C
- **Nominal voltage** U_0/U 0,6/1 kV
- **Minimum bending radius** approx. 5x cable \varnothing
- **Approved by** BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

Cable structure

- Stranded copper conductor to DIN VDE 0295 cl. 2, BS 6360 cl. 2 and IEC 60228 cl. 2
- Heat-resistant EPR-insulation 3GI3, to DIN VDE 0207 part 20
- Cores stranded in layers with optimal lay-length
- Filling compound covering all cores
- Flame-proof foil
- Plain copper braided overall screening
- Polyester tape
- Outer sheath of halogen-free, flame-retardant elastomer compound based on olefin copolymers
- jacket colour black

Colour code

- 1 core: black
- 2 cores: black/blue
- 3 cores: black/blue/brown
- 4 cores: black/blue/brown/black

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.

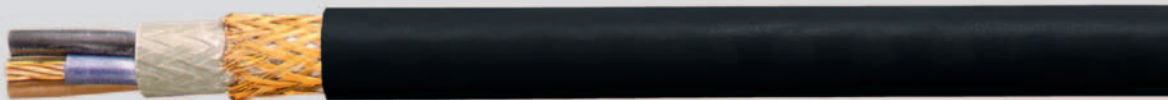
Part No.	No. cores x cross-sec. mm ²	Outer \varnothing ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no.*)
59220	1 x 4	9,0	81	170	12
59221	1 x 6	9,6	104	200	10
59222	1 x 10	10,7	149	260	8
59223	1 x 16	11,8	214	340	6
59224	1 x 25	13,8	311	490	4
59225	1 x 35	15,1	416	610	2
59226	1 x 50	17,0	572	770	1
59227	1 x 70	18,9	779	1000	2/0
59228	1 x 95	21,5	1034	1350	3/0
59229	1 x 120	23,3	1316	1600	4/0
59230	1 x 150	25,5	1615	1900	300 kcmil
59231	1 x 185	27,9	1968	2350	350 kcmil
59232	1 x 240	31,2	2506	3000	500 kcmil
59233	1 x 300	34,4	3345	3650	600 kcmil
59234	2 x 1,5	15,5	105	370	16
59235	2 x 2,5	16,5	132	420	14
59236	2 x 4	17,5	170	490	12
59237	2 x 6	19,0	217	600	10
59238	2 x 10	20,5	307	750	8
59239	2 x 16	23,0	471	980	6
59240	2 x 25	27,0	670	1350	4

Part No.	No. cores x cross-sec. mm ²	Outer \varnothing ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no.*)
59241	3 x 1,5	16,5	125	400	16
59242	3 x 2,5	17,0	161	470	14
59243	3 x 4	18,5	215	550	12
59244	3 x 6	19,5	282	680	10
59245	3 x 10	22,0	417	880	8
59246	3 x 16	24,5	636	1160	6
59247	3 x 25	28,5	924	1660	4
59248	3 x 35	31,5	1233	2070	2
59249	3 x 50	35,5	1703	2660	1
59250	3 x 70	40,0	2413	3510	2/0
59251	3 x 95	46,0	3192	4780	3/0
59252	3 x 120	50,0	3975	5770	4/0
59253	4 x 4	19,5	284	650	12
59254	4 x 6	21,0	371	780	10
59255	4 x 10	23,5	545	1050	8
59256	4 x 16	26,5	796	1450	6
59257	4 x 25	31,0	1170	2050	4
59258	4 x 35	34,5	1578	2600	2
59259	4 x 50	39,0	2278	3360	1
59260	4 x 70	44,5	3090	4530	2/0
59261	4 x 95	51,0	4110	6030	3/0

*) Note

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

Ships Power Cables MGSGO halogen-free, copper screened



Technical data

- According to VG 95 218 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 \varnothing
- **Approved by** BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

Cable structure

- 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, flame retardant and oil resistant jacket colour black

Colour code

- 1 core: black
- 2 cores: black/blue
- 3 cores: black/blue/brown
- 4 cores: black/blue/brown/black

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 ²	Outer \varnothing ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no.¹)
59270	1 x 4	9,0	81	170	12
59271	1 x 6	10,0	104	200	10
59272	1 x 10	11,0	149	260	8
59273	1 x 16	12,0	214	340	6
59274	1 x 25	14,0	311	480	4
59275	1 x 35	15,5	416	590	2
59276	1 x 50	17,5	572	760	1
59277	1 x 70	19,5	779	980	2/0
59278	1 x 95	22,0	1034	1300	3/0
59279	1 x 120	23,5	1316	1550	4/0
59280	1 x 150	26,0	1615	1850	300 kcmil
59281	1 x 185	28,5	1968	2300	350 kcmil
59282	1 x 240	31,5	2506	2950	500 kcmil
59283	1 x 300	34,4	3345	3600	600 kcmil
59284	2 x 1,5	15,0	105	340	16
59285	2 x 2,5	16,0	132	400	14
59286	2 x 4	17,0	170	460	12
59287	2 x 6	18,5	217	570	10
59288	2 x 10	20,0	307	720	8
59289	2 x 16	22,5	471	940	6
59290	2 x 25	26,5	670	1300	4

Part No.	No. cores x cross-sec. mm ²	Outer \varnothing ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no.¹)
59291	3 x 1,5	15,5	125	380	16
59292	3 x 2,5	16,5	161	440	14
59293	3 x 4	18,0	215	520	12
59294	3 x 6	19,0	282	640	10
59295	3 x 10	21,5	417	840	8
59296	3 x 16	24,0	636	1110	6
59297	3 x 25	28,0	924	1610	4
59298	3 x 35	31,0	1233	2020	2
59299	3 x 50	35,0	1703	2610	1
59300	3 x 70	39,0	2413	3450	2/0
59301	3 x 95	45,5	3192	4710	3/0
59302	3 x 120	49,5	3975	5680	4/0
59303	4 x 4	19,0	284	620	12
59304	4 x 6	20,5	371	750	10
59305	4 x 10	23,0	545	1010	8
59306	4 x 16	26,0	796	1400	6
59307	4 x 25	30,5	1170	2000	4
59308	4 x 35	34,0	1578	2530	2
59309	4 x 50	38,5	2278	3280	1
59310	4 x 70	44,0	3090	4450	2/0
59311	4 x 95	50,5	4110	5930	3/0

¹) Note

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

Light Marine Power Cables LMKK copper screened



Technical data

- According to VG 88 775/66
- **Conductor operating temperature** max. +85°C
- **Min. installation temperature** -10°C
- **Nominal voltage** 500 V
- **Minimum bending radius** approx. 5 x cable Ø
- **Approved by** BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

Cable structure

- Stranded copper conductor to DIN VDE 0295 cl. 2 and IEC 60228 cl. 2, BS 6360 cl. 2, water tight
- PVC insulation with PA protective coating
- Core stranded in layers with optimal lay-length
- PVC inner sheath
- Waterproofed plain copper braided screen
- PVC outer sheath, colour green

Colour code

- 2 cores: grey/black
- 3 cores: grey/black/red
- 4 cores: grey/black/red/blue
- 5 cores: grey/black/red/blue/black
- 7-33 cores: all cores black with white numbering, core 1 placed centrally.

Application

For fixed installation on marine craft above and below deck.

Part No.	No. cores x cross-sec. mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
59320	2 x 1,5	10,0	89	160	16
59321	3 x 1,5	10,4	105	180	16
59322	4 x 1,5	11,3	131	210	16
59323	5 x 1,5	12,1	146	240	16
59324	7 x 1,5	13,2	180	300	16
59325	10 x 1,5	15,7	244	400	16
59326	12 x 1,5	16,5	276	440	16
59327	14 x 1,5	17,1	310	490	16
59328	16 x 1,5	17,9	342	550	16

Part No.	No. cores x cross-sec. mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
59329	19 x 1,5	18,6	401	620	16
59330	24 x 1,5	21,1	494	760	16
59331	27 x 1,5	21,5	539	820	16
59332	33 x 1,5	22,9	633	970	16
59333	2 x 2,5	11,2	114	210	14
59334	3 x 2,5	11,7	144	240	14
59335	4 x 2,5	12,4	171	280	14

***) Note**

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

Light Marine Telephone Cables LFMKK 250 V



Technical data

- According to VG 88 777
- **Conductor operating temperature**
max. +85°C
- Min. **installation temperature** -10°C
- **Nominal voltage** 250 V
- **Minimum bending radius**
approx. 5 x cable Ø
- **Approved by**
BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

Cable structure

- Stranded copper conductor to DIN VDE 0295 cl. 2 and IEC 60228 cl. 2
- PVC insulation sleeve to DIN VDE 0207 part 4
- PA protective covering to VDE 0253
- Four cores formed into a star-quad, two diagonally opposite cores make up a telecommunications pair, star-quads laid up concentrically
- PVC inner jacket
- Plain copper wire braided screen
- Outer jacket made of green, heat resistant PVC

Colour code

- 2 pairs: grey/black-blue/yellow
- 4 pairs: 1. pair red/black
- 2. pair green/yellow
- 3. pair blue/yellow
- 4. pair blue/yellow
- 6–10 pairs:
- 1 twist/group red/black-blue/yellow
- 2 twist/group green/black-blue/yellow
- 3 and following groups grey/black-blue/yellow
- 14 and 16 pairs:
- 1st layer group grey/black-blue/yellow
- 2nd layer 1. group red/black-blue/yellow
- 2. group green/black-blue/yellow
- 3. group and above grey/black-blue/yellow

Application

This cable type can be installed above or below deck and is designed for radio and radar units.

Part No.	No. cores x cross-sec. mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
59120	2 x 2 x 0,75	9,0	89	155	18
59121	4 x 2 x 0,75	13,0	142	270	18
59122	6 x 2 x 0,75	15,0	189	360	18

Part No.	No. cores x cross-sec. mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
59123	8 x 2 x 0,75	16,5	225	415	18
59124	10 x 2 x 0,75	18,0	272	505	18
59125	14 x 2 x 0,75	19,0	338	570	18

*) Note

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

Light Marine Telephone Cables XLFMKK copper screened



Technical data

- According to VG 88 778/66
- **Conductor operating temperature** max. +85°C
- **Min. installation temperature** -10°C
- **Nominal voltage** 250 V
- **Minimum bending radius** approx. 5 x cable Ø
- **Approved by** german ministry of defense

Cable structure

- Stranded copper conductors to DIN VDE 0295 cl. 2, BS 6360 cl. 2 and ICE 60228 cl. 2
- PVC core insulation with polyamid coating
- Cores laid up in pairs
- Pairs copper screened
- Separating foil
- PVC inner sheath
- Plain copper braided screen, waterproofed
- PVC outer sheath, colour green

Colour code

All sizes are colour coded.

Application

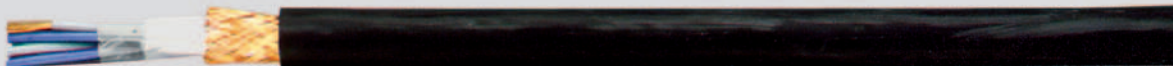
For fixed installation on marine craft above and below deck.

Part No.	No. cores x cross-sec. mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
59336	2 x 2 x 0,75	16,0	160	370	18
59337	4 x 2 x 0,75	18,1	277	490	18
59338	11 x 2 x 0,75	26,2	658	1080	18



Works photo: Jos. L. Meyer GmbH & Co.

Marine Power Cables LMGSG halogen-free, copper screened



Technical data

- According to VG 95 281 part 51 screened.
No loss of insulation if under exposure to flame
- **Conductor operating temperature** max. +85°C
- Min. **installation temperature** -10°C
- **Nominal voltage** 500 V
- **Minimum bending radius** approx. 5 x cable Ø
- **Approved by**
BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

Cable structure

- Stranded copper conductor to DIN VDE 0295 cl. 2, BS 6360 cl. 2 and IEC 60228 cl. 2
- Heat resistant EPR-insulation 3GI3, to DIN VDE 0207 part 20 with flame resistant taping
- Core stranded in layers with optimal lay-length
- Filling compound covering all cores
- Flame resistant foil taping
- Plain copper braided screening
- Polyester foil taping
- Chloroprene based outer sheath, flame retardant and halogen-free sheath colour black

Colour code

- 2 cores: black/blue
- 3 cores: black/blue/brown
- 4 cores: black/blue/brown/black
- 5 cores: black/blue/brown/black/black
- 7-33 cores: all cores black, number coded, core 1 placed centrally.

Application

For fixed installation on marine craft above and below deck.

Part No.	No. cores x cross-sec. mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
59340	2 x 1,5	10,0	89	135	16
59341	3 x 1,5	10,5	105	160	16
59342	4 x 1,5	11,5	131	190	16
59343	5 x 1,5	13,0	146	220	16
59344	7 x 1,5	14,0	180	280	16
59345	10 x 1,5	17,0	244	360	16
59346	12 x 1,5	17,5	276	400	16
59347	14 x 1,5	18,0	310	450	16
59348	16 x 1,5	19,0	342	500	16

Part No.	No. cores x cross-sec. mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
59349	19 x 1,5	20,0	401	550	16
59350	24 x 1,5	23,0	494	700	16
59351	27 x 1,5	23,5	539	750	16
59352	33 x 1,5	25,5	633	880	16
59353	2 x 2,5	11,5	114	190	14
59354	3 x 2,5	12,0	144	220	14
59355	4 x 2,5	13,0	171	260	14
59356	7 x 2,5	15,4	266	380	14

*) Note

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

Marine Power Cables LMGSGO halogen-free, screened



Technical data

- According to VG 95 281 part 61 screened.
No loss of insulation if directly exposed to fire. No special fire-proofed layer necessary
- **Conductor operating temperature** max. +85°C
- **Nominal voltage** 500 V
- **Minimum bending radius** approx. 5x cable Ø
- **Approved by**
BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

Cable structure

- Stranded copper conductor
- Heat resistant EPR-insulation 3GI3, to DIN VDE 0207 part 20
- Core stranded in layers with optimal lay-length
- Halogen-free inner filling sheath
- Copper braided screening
- Polyester foil taping
- Chloroprene based outer sheath, flame retardant and halogen-free sheath colour black

Colour code

- 2 cores: black/blue
- 3 cores: black/blue/brown
- 4 cores: black/blue/brown/black
- 5 cores: black/blue/brown/black/black
- 7 – 33 cores: all cores black, number coded, core 1 placed centrally.

Application

For fixed installation on marine craft above and below deck.

Part No.	No. cores x cross-sec. mm ²	Outer Ø ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no. *)
59360	2 x 1,5	9,0	89	110	16
59361	3 x 1,5	9,5	105	140	16
59362	4 x 1,5	10,5	131	170	16
59363	5 x 1,5	10,5	146	180	16
59364	7 x 1,5	11,5	180	230	16
59365	10 x 1,5	14,0	244	310	16
59366	12 x 1,5	14,5	276	350	16
59367	14 x 1,5	15,0	310	400	16
59368	16 x 1,5	16,0	342	450	16
59369	19 x 1,5	16,5	401	510	16

Part No.	No. cores x cross-sec. mm ²	Outer Ø ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no. *)
59370	24 x 1,5	19,0	494	620	16
59371	27 x 1,5	19,5	539	680	16
59372	33 x 1,5	21,0	633	810	16
59373	2 x 2,5	10,0	114	160	14
59374	3 x 2,5	10,5	144	190	14
59375	4 x 2,5	11,5	171	230	14
59376	6 x 2,5	13,0	242	300	14
59377	7 x 2,5	13,0	266	320	14

***) Note**

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

Ships Telephone Cables FMGCH 250 V (FMGCG*)

halogen-free, according to DIN 89159/98



Technical data

- As per DIN 89160 edition 1998 and IEC 60092-375
- **Temperature range**
max. +85°C conductor temperature
- **Nominal voltage** 250 V
- **Insulation resistance**
14000 MOhm x km
- **Bending radius** approx. 5xcable Ø
- **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)

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)
- All cores natural coloured, printed with numbers, starting in center with number 1
- Cores stranded in pairs with optimal lay-length
- Pairs stranded in layers with optimal lay-length
- Separator-foil
- Bare copper braided screen
- Separator-foil
- Outer sheath, Polyolefin basis-compound
sheath colour, green

Application

This cable type is used as a measuring, control and communication cable in radio, radar and information systems. For use above and below decks.

Part No.	No. cores x cross-sec. mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no.¹)
59138	1 x 2 x 0,75	8,5	62	90	18
59139	2 x 2 x 0,75	9,0	87	130	18
59140	4 x 2 x 0,75	13,0	153	230	18
59141	7 x 2 x 0,75	15,5	230	340	18

Part No.	No. cores x cross-sec. mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no.¹)
59142	10 x 2 x 0,75	18,5	319	470	18
59143	14 x 2 x 0,75	21,0	445	610	18
59144	19 x 2 x 0,75	24,0	525	770	18
59145	24 x 2 x 0,75	27,0	663	950	18

¹) Note

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

¹) Halogenated type FMGCG will be substituted according to DIN, edition 1998 through the halogen-free type FMGCH. FMGCH-F with functionality according to IEC 60331 available on request.

Marine Telecommunications Cables FMSGGO

halogen-free, copper screened



Technical data

- According to VG 95 218 part 62, screened. No loss of insulation if directly exposed to open flame.
- No special flame proof layer necessary
- **Conductor operating temperature** max. +85°C
- **Nominal voltage** 250 V
- **Minimum bending radius** approx. 5xcable Ø
- **Approved by** BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

Cable structure

- Stranded copper conductors
- Heat resistant EPR-insulation 3GI3, to DIN VDE 0207 part 20
- Cores quad twisted
- Filling compound covering all cores
- Overall copper braided screen
- Polyester foil taping
- Chloroprene based outer sheath 5GM3, to DIN VDE 0207 part 21, flame retardant and halogen-free sheath colour black

Colour code

All sizes and dimensions are colour coded.

Application

For fixed installation on marine craft above and below decks.

Part No.	No. cores x cross-sec. mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no.*)
59380	2 x 2 x 0,75	9,0	89	110	18
59381	4 x 2 x 0,75	12,5	142	190	18
59382	6 x 2 x 0,75	14,5	189	260	18
59385	8 x 2 x 0,75	15,5	225	310	18

Part No.	No. cores x cross-sec. mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no.*)
59384	10 x 2 x 0,75	17,0	272	380	18
59385	14 x 2 x 0,75	18,5	338	465	18
59386	16 x 2 x 0,75	20,0	373	520	18



Ferry line to Scandinavia

Marine Telecommunications Cables FMSGGO 250V

with a single screen, higher cross-talk attenuation, halogen-free



Technical data

- According to VG 95 218 part 63
- **Conductor operating temperature**
max. +85°C
- **Installation temperature** -10°C
- **Nominal voltage** 250 V
- **Minimum bending radius**
approx. 3 – 5 x cable Ø
- **Approved by**
BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

Cable structure

- Plain copper, stranded conductor
- Cross-linked polyolefin-insulation
- Cores laid up in pairs
- Separation foil
- Each pair plain copper wire screened
- Each pair with separation foil
- Pairs laid up concentrically
- Separation foil
- Overall foil wrap
- Plain, copper wire, braided screen
- Separation foil
- Elastomere based outer sheath, flame retardant and oil resistant sheath colour black

Colour code for cores

- Pair/counting pair: black/blue
- Pair/counting direction pair: black/brown
- Subsequent pairs: black/grey

Application

For fixed installation on marine craft above and below deck.

Part No.	No. cores x cross-sec. mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
59150	2 x 2 x 0,75	14	149	220	18
59151	4 x 2 x 0,75	17	277	340	18
59152	7 x 2 x 0,75	20	489	500	18
59153	11 x 2 x 0,75	27	658	780	18

Part No.	No. cores x cross-sec. mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
59154	14 x 2 x 0,75	28	731	950	18
59155	19 x 2 x 0,75	32	951	1300	18
59156	24 x 2 x 0,75	37	1181	1600	18

*) Note

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

Light Marine Telecommunications Cables LFMGSSGO

halogen-free, 2xcopper screened



Technical data

- According to VG 95 218 part 64, 2xcopper screening. No loss of insulation if directly exposed to open flame. No special flame proof layer necessary
- **Conductor operating temperature** max. +85°C min. **installation temperature** -10°C
- **Nominal voltage** 250 V
- **Minimum bending radius** approx. 6xcable ∅
- **Approved by** BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

Cable structure

- Stranded (7) tinned copper conductor to DIN VDE 0295 cl. 2, BS 6360 cl. 2 and IEC 60228 cl. 2
- Cross-linked polyolefin-insulation
- Core stranded to pairs with optimal lay-length
- Overall halogen-free inner filling
- Tinned copper, braided double screening
- Polyester foil taping
- Elastomere based outer sheath, flame retardant and oil resistant sheath colour black

Colour code for cores

- Pair/counting pair: black/blue
- Pair/counting direction pair: black/brown
- Subsequent pairs: black/grey

Application

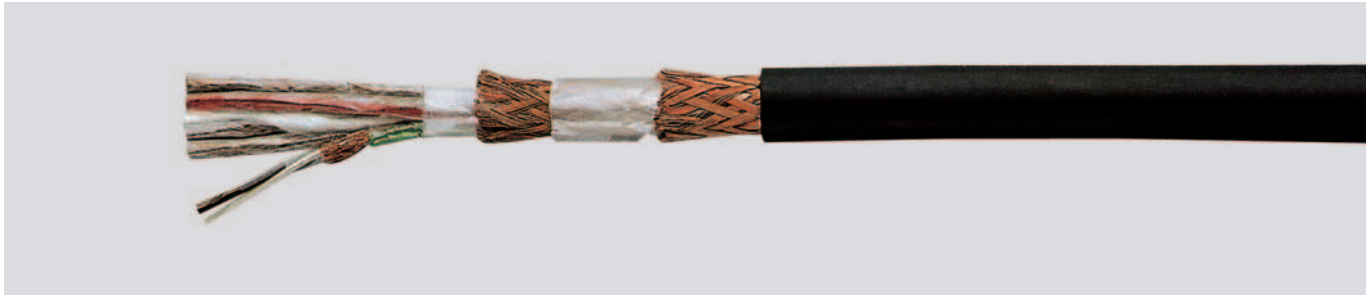
For fixed installation on marine craft above and below decks.

Part No.	No. cores x cross-sec. mm ²	Outer ∅ ca. mm	Cop. weight kg / km	Weight ca. kg / km
59390	2 x 2 x 0,4	8,0	60	95
59391	4 x 2 x 0,4	10,5	95	145
59392	7 x 2 x 0,4	12,5	146	220

Part No.	No. cores x cross-sec. mm ²	Outer ∅ ca. mm	Cop. weight kg / km	Weight ca. kg / km
59393	12 x 2 x 0,4	15,5	235	320
59394	19 x 2 x 0,4	18,0	320	415
59395	27 x 2 x 0,4	20,0	414	540

Light Marine Telecommunications Cables LFMSGSSGO

halogen-free, 2xcopper screened



Technical data

- According to VG 95 218 part 66, 2xcopper screening with improved cross-talk protection. No loss of insulation if directly exposed to open flame. No special flame proof layer necessary
- **Conductor operating temperature** max. +85°C
min. **installation temperature** -10°C
- **Nominal voltage** 250 V
- **Minimum bending radius** approx. 6xcable Ø
- **Approved by** BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

Cable structure

- Stranded (7) tinned copper conductor
- Cross-linked polyolefin-insulation
- Core stranded to pairs with optimal lay-length
- Tinned copper, braided screening over each pair
- Polyester foil separator
- Overall polyester taped inner covering
- Tinned copper, braided overall screen
- Halogen-free insulating layer
- Overall tinned copper, braided screen
- Polyester foil separator
- Elastomere based outer sheath, flame retardant and oil resistant sheath colour black

Colour code

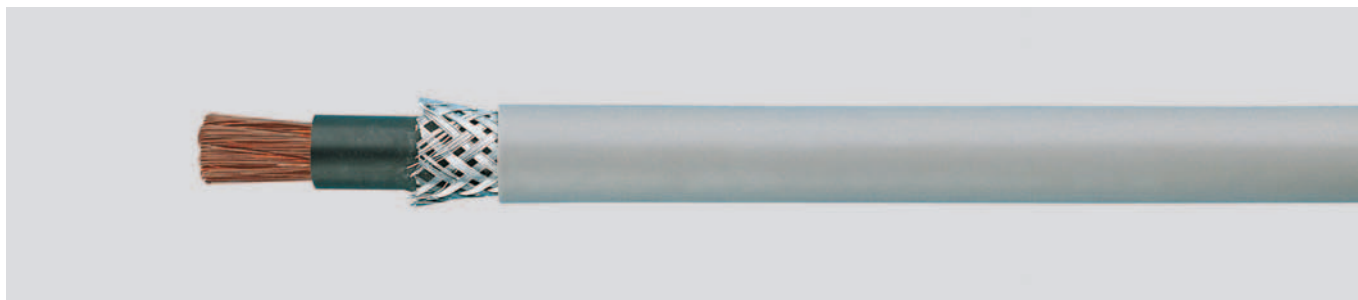
All sizes and dimensions are colour coded.

Application

For fixed installation on marine craft above and below decks.

Part No.	No. cores x cross-sec. mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
59396	5 x 3 x 0,4	16	248	420
59397	12 x 3 x 0,4	23	500	740

Ships Wiring Cables-SY single cores



Technical data

- special PVC single cores according to DIN VDE 0250
- **Temperature range**
flexing + 5°C to +70°C
fixed installation -40°C to +70°C
- **Nominal voltage** 250 V
- **Test voltage** 1500 V
- **Minimum bending radius**
approx. 7,5x cable Ø
- **Approved by**
Germanischer Lloyd

Cable structure

- Fine wire stranded, plain copper conductors according to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- PVC core insulation
- Tinned steel-wire braided screening
- PVC outer sheath (RAL 7001)
- Sheath colour black
- Flame resistant and self-extinguishing as per VDE 0472, part 804, test B and IEC 60332-1
- Oil resistant according DIN VDE 0250

Application

For installation in measuring and control units, for communication systems, production lines and conveyor belts. For fixed or mobile installation in dry, damp or wet areas. These PVC single cores are also suitable for use in ship building.

Part No.	No. cores x cross-sec mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no.†)
59450	1 x 6	8,3	57,4	148	10
59451	1 x 10	10,3	95,8	221	8
59452	1 x 16	10,3	153,4	293	6
59453	1 x 25	13,7	239,5	447	4

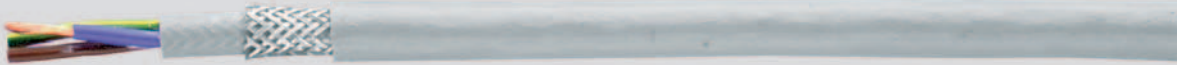
Part No.	No. cores x cross-sec mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no.†)
59454	1 x 35	15,2	335,0	565	2
59455	1 x 50	18,1	479,5	788	1
59456	1 x 70	21,1	671,0	1061	2/0
59457	1 x 95	22,8	910,0	1355	3/0

PVC cables will be changed to lead free PVC successively.



Container loading with bridge crane

Ships Wiring Cables - SY stranded type



Technical data

- Special PVC cables
- **Temperature range**
flexing + 5°C to +70°C
fixed installation -40°C to +70°C
- **Nominal voltage** 250 V
- **Test voltage** 3000 V
- **Minimum bending radius**
approx. 7,5 x cable Ø
- **Approved by**
Germanischer Lloyd

Cable structure

- Fine stranded, plain copper conductors according to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- PVC-based core insulation Y12 according to DIN VDE 0207
- Cores colour coded to DIN VDE 0293 or black cores with continuous white numbering
- Core stranded in layers with optimal lay-length
- PVC inner sheath
- Galvanized steel-wire braided overall screening
- Outer sheath according to DIN VDE 0207 part 5
- Sheath colour grey (RAL 7001)
- Conditionally oil-resistant
- Flame resistant and self-extinguishing as per VDE 0472, part 804, test B and IEC 60332-1

Application

The ideal cable for all fixed installations. These SY cables are also suited for use in production lines, conveyor systems, automatic assembly lines, etc. as well as in ship building. The tinned copper wire braiding offers excellent protection against both mechanical and electronic interference to the cable function.

Part No.	No. cores x cross-sec mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
59460	2 x 1,5	9,7	28,7	146	16
59461	3 x 1,5	10,1	43,1	166	16
59462	4 x 1,5	10,8	57,5	198	16
59463	5 x 1,5	11,6	71,9	230	16
59464	7 x 1,5	13,3	100,6	299	16
59465	3 x 2,5	11,6	72,1	231	14
59466	4 x 2,5	13,3	95,8	298	14
59467	5 x 2,5	14,3	120,0	355	14

Part No.	No. cores x cross-sec mm ²	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
59468	4 x 4	16,2	153,5	358	12
59469	5 x 4	17,5	193,0	535	12
59470	4 x 6	18,4	230,3	595	10
59471	5 x 6	19,7	288,0	714	10

PVC cables will be changed to lead free PVC successively.

*) Note

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

Ships Power Cables MPRX 0,6/1 kV

according to IEC 60092-353, halogen-free



Technical data

- As per IEC 60092-353
- **Temperature range**
max. +85°C conductor temperature
- Min. **installation temperature** -10°C
- **Nominal voltage** U_0/U 0,6/1 kV
- **Bending radius** approx. 4xcable \varnothing
- **Approved by**
Germanischer Lloyd, Lloyds Register of Shipping, American Bureau of Shipping, Det Norske Veritas, Bureau Veritas, Russian Maritime Register of Shipping and Registro Italiano Navale
- Flame retardant according to SOLAS definition (according to IEC 60332-3 category A and IEEE 45-18.13)

Cable structure

- Stranded, bare copper conductors to DIN VDE 0295 cl. 2, BS 6360 cl. 2 and IEC 60228 cl. 2
- Core insulation of cross-linked polyethylene
- Cores stranded in layers with optimal lay-length
- Outer sheath, Polyolefin basis-compound, jacket colour black

Colour code

- 1 core: black
- 2 cores: black/blue
- 3 cores: black/blue/brown
- 4 cores: black/blue/brown/white
- 5 to 24 core cable: all cores black coloured, printed with numbers, starting in center with number 1

Application

For fixed installation on ships and offshore-units in all locations below the upper metallic deck.

Therefore, these cables are especially suitable for the installation on passenger ships.

Tests

- Flame-test to VDE 0472 part 804, test method C, IEC 60332-3 cat. A and IEEE 45-18.13
- Smoke density to IEC 61034
- Halogen-free to 60754-1
- Corrosiveness of combustion gases to IEC 60754-2

Part No.	No. cores x cross-sec. mm ²	Outer \varnothing ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no. *)
59654	1 x 4	5,9	38	70	12
59655	1 x 6	6,4	58	95	10
59656	1 x 10	7,3	96	140	8
59657	1 x 16	8,2	154	200	6
59658	1 x 25	10,1	240	320	4
59659	1 x 35	11,1	336	420	2
59660	1 x 50	12,8	480	560	1
59661	1 x 70	14,9	672	780	2/0
59662	1 x 95	16,7	912	1030	3/0
59663	1 x 120	18,6	1152	1290	4/0
59664	1 x 150	20,7	1440	1590	300 kcmil
59665	1 x 185	22,9	1776	1960	350 kcmil
59666	1 x 240	25,7	2304	2560	500 kcmil
59667	1 x 300	28,4	2880	3200	600 kcmil
59668	2 x 1,5	7,8	29	80	16
59669	2 x 2,5	8,9	48	105	14
59670	2 x 4	9,9	77	145	12
59671	2 x 6	10,9	115	190	10
59672	2 x 10	13,0	192	290	8
59673	2 x 16	15,1	307	430	6
59674	2 x 25	17,6	480	680	4
59675	3 x 1,5	8,3	43	100	16
59676	3 x 2,5	9,4	72	140	14
59677	3 x 4	10,4	115	190	12
59678	3 x 6	11,8	173	260	10
59679	3 x 10	13,8	288	410	8
59680	3 x 16	16,1	461	600	6

Part No.	No. cores x cross-sec. mm ²	Outer \varnothing ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no. *)
59681	3 x 25	19,8	720	970	4
59682	3 x 35	21,3	1008	1290	2
59683	3 x 50	24,7	1440	1720	1
59684	3 x 70	27,3	2016	2450	2/0
59685	3 x 95	31,1	2736	3305	3/0
59686	3 x 120	34,5	3456	4140	4/0
59687	4 x 1,5	9,2	58	130	16
59688	4 x 2,5	10,3	96	180	14
59689	4 x 4	11,6	154	245	12
59690	4 x 6	12,6	230	345	10
59691	4 x 10	15,4	384	535	8
59692	4 x 16	17,9	614	795	6
59693	4 x 25	22,0	960	1300	4
59694	4 x 35	23,9	1344	1725	2
59695	4 x 50	27,8	1920	2310	1
59696	4 x 70	32,9	2688	3275	2/0
59697	4 x 95	36,1	3648	4445	3/0
59698	5 x 1,5	10,1	72	165	16
59699	5 x 2,5	11,2	120	225	14
59700	7 x 1,5	11,0	101	205	16
59701	10 x 1,5	14,1	144	290	16
59702	12 x 1,5	14,7	173	330	16
59703	14 x 1,5	15,5	202	375	16
59704	16 x 1,5	16,3	230	440	16
59705	19 x 1,5	17,4	274	500	16
59706	24 x 1,5	20,5	346	630	16

*) Note

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

Ships Power Cables MPRXCX 0,6/1 kV

according to IEC 60092-353, halogen-free, screened



Technical data

- As per IEC 60092-353
- **Temperature range**
max. +85°C conductor temperature
- Min. **installation temperature** -10°C
- **Nominal voltage** U_0/U 0,6/1 kV
- **Bending radius** approx. 4xcable \varnothing
- **Approved by**
Germanischer Lloyd, Lloyds Register of Shipping, American Bureau of Shipping, Det Norske Veritas, Bureau Veritas, Russian Maritime Register of Shipping and Registro Italiano Navale
- Flame retardant according to SOLAS definition (according to IEC 60332-3 category A and IEEE 45-18.13)

Cable structure

- Stranded, bare copper conductors to DIN VDE 0295 cl. 2, BS 6360 cl. 2 and IEC 60228 cl. 2
- Core insulation of cross-linked polyethylene
- Cores stranded in layers with optimal lay-length
- Cores wrapping with fail
- Copper screened braiding
- Outer sheath, Polyolefin basis-compound, jacket colour black

Colour code

- 1 core: black
- 2 cores: black/blue
- 3 cores: black/blue/brown
- 4 cores: black/blue/brown/white
- 5- to 24 core cable: all cores black coloured, printed with numbers, starting in center with number 1

Application

For fixed installation on ships and offshore-units in all locations below the upper metallic deck. Therefore, these cables are especially suitable for the installation on passenger ships. The good screening qualities of the copper braid also reduce radio interferences and electrical influences to electronic installations.

Tests

- Flame-test to VDE 0472 part 804, test method C, IEC 60332-3 cat. A and IEEE 45-18.13
- Smoke density to IEC 61034
- Halogen-free to 60754-1
- Corrosiveness of combustion gases to IEC 60754-2

Part No.	No. cores x cross-sec. mm ²	Outer \varnothing ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no.*)
59707	1 x 4	7,3	81	105	12
59708	1 x 6	7,8	104	130	10
59709	1 x 10	8,9	149	180	8
59710	1 x 16	9,8	214	250	6
59711	1 x 25	11,7	311	380	4
59712	1 x 35	12,7	416	480	2
59713	1 x 50	14,8	572	660	1
59714	1 x 70	16,9	779	900	2/0
59715	1 x 95	18,7	1034	1170	3/0
59716	1 x 120	20,6	1316	1410	4/0
59717	1 x 150	22,7	1615	1750	300 kcmil
59718	1 x 185	24,9	1968	2160	350 kcmil
59719	1 x 240	27,2	2506	2770	500 kcmil
59720	1 x 300	30,4	3345	3440	600 kcmil
59721	2 x 1,5	3,9	105	130	16
59722	2 x 2,5	10,2	132	160	14
59723	2 x 4	11,4	170	205	12
59724	2 x 6	12,6	217	290	10
59725	2 x 10	14,8	307	400	8
59726	2 x 16	16,9	471	560	8
59727	2 x 25	20,4	670	840	4
59728	3 x 1,5	9,9	125	160	16
59729	3 x 2,5	10,8	161	200	14
59730	3 x 4	12,0	215	250	12
59731	3 x 6	13,2	282	360	10
59732	3 x 10	15,7	417	520	8
59733	3 x 16	18,0	636	750	6

Part No.	No. cores x cross-sec. mm ²	Outer \varnothing ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no.*)
59734	3 x 25	21,7	924	950	4
59735	3 x 35	23,1	1233	1470	2
59736	3 x 50	26,5	1703	1870	1
59737	3 x 70	29,1	2413	2650	2/0
59738	3 x 95	32,9	3192	3500	3/0
59739	3 x 120	36,7	3975	4300	4/0
59740	4 x 1,5	10,6	147	200	16
59741	4 x 2,5	11,9	190	240	14
59742	4 x 4	13,0	284	350	12
59743	4 x 6	14,6	371	450	10
59744	4 x 10	17,3	545	670	8
59745	4 x 16	19,8	796	950	6
59746	4 x 25	23,9	1170	1470	4
59747	4 x 35	25,7	1578	1930	2
59748	4 x 50	29,6	2278	2500	1
59749	4 x 70	33,7	3090	3550	2/0
59750	4 x 95	38,3	4110	4600	3/0
59751	5 x 1,5	11,7	171	225	16
59752	5 x 2,5	12,8	220	330	14
59753	7 x 1,5	12,5	209	310	16
59754	10 x 1,5	16,0	318	400	16
59755	12 x 1,5	16,6	353	440	16
59756	14 x 1,5	17,4	394	500	16
59757	16 x 1,5	18,2	432	550	16
59758	19 x 1,5	19,3	486	620	16
59759	24 x 1,5	22,4	601	770	16

*) Note

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