Shipwiring and Marine Cables
Shipwiring and Marine Cables

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 and the Verband Deutscher Elektrotechniker.

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ships Power Cables MGH 0,6/1kV (MGG*), halogen-free, according to DIN 89 160/99</td>
<td>W 5</td>
</tr>
<tr>
<td>Ships Power Cables MGCH 0,6/1kV, halogen-free according to DIN 89 158/99</td>
<td>W 6</td>
</tr>
<tr>
<td>Ships Power Cables MGS880, halogen-free, copper screened</td>
<td>W 7</td>
</tr>
<tr>
<td>Light Marine Power Cables XLFMKK, Cu-screened</td>
<td>W 8</td>
</tr>
<tr>
<td>Marine Power Cables LMCGS0, halogen-free, Cu-screened</td>
<td>W 9</td>
</tr>
<tr>
<td>Ships Telephone Cables FMGCH 250 V (FMGCC*), halogen-free according to DIN 89 159/99</td>
<td>W 10</td>
</tr>
<tr>
<td>Marine Telecommunication Cables FMGSS80, halogen-free, Cu-screened</td>
<td>W 11</td>
</tr>
<tr>
<td>Marine Telecommunication Cables FMSGSS80 250 V, with a single screen, higher cross-talk attenuation, halogen-free</td>
<td>W 12</td>
</tr>
<tr>
<td>Light Marine Telekommunication Cables LFMGSS0, halogen-free, 2x Cu-screened</td>
<td>W 13</td>
</tr>
<tr>
<td>Light Marine Telecommunication Cables LFMSGSS0, halogen-free, 2x Cu-screened</td>
<td>W 14</td>
</tr>
<tr>
<td>Ships Wiring Cables-SY single cores</td>
<td>W 15</td>
</tr>
<tr>
<td>Ships Wiring Cables-SY stranded type</td>
<td>W 16</td>
</tr>
<tr>
<td>Ships Power Cables MPRX 0,6/1kV, according to IEC 60092-353, halogen-free</td>
<td>W 17</td>
</tr>
<tr>
<td>Ships Power Cables MPRX880CX 0,6/1kV, according to IEC 60092-353, halogen-free</td>
<td>W 18</td>
</tr>
</tbody>
</table>
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/U 0,6/1 kV
- Minimum bending radius approx. 4x cable Ø

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 11
  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 inner with number 1
- 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)

Note
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- Cables with green-yellow marked core on request.
- Halogenetated type MGG will be substituted according to DIN, edition 1998 through the halogenb-free type MGH

Application
For stationary installation beneath the first metal deck level.
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/U 0,6/1 kV
- Minimum bending radius approx. 6x cable Ø

Cable structure
- Stranded, bare copper conductors to DIN VDE 0295 cl. 2, BS 6360 cl. 2 and IEC 60228 cl. 2
- HEPRA 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 code
  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, 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)

Note
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- Cables with green-yellow marked core on request.
- Halogeneted 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No. cores x cross-sec. mm²</th>
<th>Outer Ø ca. mm</th>
<th>Cop. weight kg / km</th>
<th>Weight ca. kg / km</th>
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</table>

Dimensions and specifications may be changed without prior notice. (RWO1)
**Technical data**
- According to VG 95218 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 Uo/U 0.6/1 kV
- Minimum bending radius approx. 5x cable Ø

**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
- Jacket colour black

**Properties**
- halogen-free and flame retardant
- Colour code
  - 1 core: black
  - 2 cores: black/blue
  - 3 cores: black/blue/brown
  - 4 cores: black/blue/brown/black
- Approved by BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

**Note**
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

**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.

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**Part No.**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No. of cores x cross-section</th>
<th>Outer Ø ca. mm</th>
<th>Cop. weight kg / km</th>
<th>Weight ca. kg / km</th>
<th>AWG-No.</th>
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</table>

Dimensions and specifications may be changed without prior notice. (RW01)
Light Marine Power Cables XLFMKK Cu-screened

Technical data
- According to VG 88778/66
- Conductor operating temperature max. +85°C
- Min. installation temperature -10°C
- Nominal voltage 250 V
- Minimum bending radius approx. 5x cable Ø

Cable structure
- Stranded copper conductors to DIN VDE 0295 cl. 2, BS 6360 cl. 2 and IEC 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

Properties
- Colour code
  All sizes are colour coded
- Approved by
  German ministry of defense

Application
For fixed installation on marine craft above and below deck.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No.pairs x cross-sec. mm²</th>
<th>Outer Ø ca. mm</th>
<th>Cop. weight kg / km</th>
<th>Weight ca. kg / km</th>
<th>AWG-No.</th>
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</table>

Dimensions and specifications may be changed without prior notice. (RW01)
Marine Power Cables LMGSGO halogen-free, Cu-screened

Technical data
- According to VG 95281 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

Cable structure
- Stranded copper conductor
- Heat resistant EPR-insulation 3Gl3, 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
- Sheath colour black

Properties
- Halogen-free and flame retardant
- 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.
- Approved by BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

Note
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application
For fixed installation on marine craft above and below deck.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No. cores x cross-sec.</th>
<th>Outer Ø ca. mm</th>
<th>Cop. weight kg/km</th>
<th>Weight ca. kg/km</th>
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<table>
<thead>
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<th>Part No.</th>
<th>No. cores x cross-sec.</th>
<th>Outer Ø ca. mm</th>
<th>Cop. weight kg/km</th>
<th>Weight ca. kg/km</th>
<th>AWG-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>59373</td>
<td>2 x 2.5</td>
<td>10.0</td>
<td>114.0</td>
<td>160.0</td>
<td>14</td>
</tr>
<tr>
<td>59374</td>
<td>3 x 2.5</td>
<td>10.5</td>
<td>144.0</td>
<td>190.0</td>
<td>14</td>
</tr>
<tr>
<td>59375</td>
<td>4 x 2.5</td>
<td>11.5</td>
<td>171.0</td>
<td>230.0</td>
<td>14</td>
</tr>
<tr>
<td>59376</td>
<td>6 x 2.5</td>
<td>13.0</td>
<td>242.0</td>
<td>300.0</td>
<td>14</td>
</tr>
<tr>
<td>59377</td>
<td>7 x 2.5</td>
<td>13.0</td>
<td>266.0</td>
<td>320.0</td>
<td>14</td>
</tr>
</tbody>
</table>

Dimensions and specifications may be changed without prior notice. (RW01)
Ships Telephone Cables FMGCH 250 V (FMGC Cy* )
halogen-free according to DIN 89 159/99

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 1400 MOhm x km
- Minimum bending radius approx. 5x cable Ø

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 per pair, 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

Properties
- Flame retardant according to SOLAS definition (according to IEC 60332-3 category A)
- 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

Note
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No. pairs x cross-sec.</th>
<th>Outer Ø ca. mm</th>
<th>Cop. weight kg / km</th>
<th>Weight ca. kg / km</th>
<th>AWG-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>59138</td>
<td>1 x 2 x 0.75</td>
<td>8.5</td>
<td>62.0</td>
<td>90.0</td>
<td>18</td>
</tr>
<tr>
<td>59139</td>
<td>2 x 2 x 0.75</td>
<td>9.0</td>
<td>87.0</td>
<td>130.0</td>
<td>18</td>
</tr>
<tr>
<td>59140</td>
<td>4 x 2 x 0.75</td>
<td>13.0</td>
<td>153.0</td>
<td>230.0</td>
<td>18</td>
</tr>
<tr>
<td>59141</td>
<td>7 x 2 x 0.75</td>
<td>15.5</td>
<td>230.0</td>
<td>340.0</td>
<td>18</td>
</tr>
</tbody>
</table>

Dimensions and specifications may be changed without prior notice. (RW01)
Marine Telecommunication Cables FMGSGO
halogen-free, Cu-screened

Technical data
- According to VDE 952-18 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. 5x cable Ø

Cable structure
- Stranded copper conductors
- Heat resistant EPR-insulation 3G1/3, 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 5CM3, to DIN VDE 0207 part 21
- Sheath colour black

Properties
- Halogen-free and flame retardant
- Colour code
- All sizes and dimensions are colour coded
- Approved by BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

Application
For fixed installation on marine craft above and below decks.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No.pairs x cross-sec. mm²</th>
<th>Outer Ø ca. mm</th>
<th>Cop. weight kg / km</th>
<th>Weight ca. kg / km</th>
<th>AWG-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>59380</td>
<td>2 x 2 x 0.75</td>
<td>9.0</td>
<td>89.0</td>
<td>110.0</td>
<td>18</td>
</tr>
<tr>
<td>59381</td>
<td>4 x 2 x 0.75</td>
<td>12.5</td>
<td>142.0</td>
<td>190.0</td>
<td>18</td>
</tr>
<tr>
<td>59382</td>
<td>6 x 2 x 0.75</td>
<td>14.5</td>
<td>189.0</td>
<td>260.0</td>
<td>18</td>
</tr>
<tr>
<td>59385</td>
<td>8 x 2 x 0.75</td>
<td>15.5</td>
<td>225.0</td>
<td>310.0</td>
<td>18</td>
</tr>
<tr>
<td>59384</td>
<td>10 x 2 x 0.75</td>
<td>17.0</td>
<td>272.0</td>
<td>380.0</td>
<td>18</td>
</tr>
<tr>
<td>59385</td>
<td>14 x 2 x 0.75</td>
<td>18.5</td>
<td>358.0</td>
<td>465.0</td>
<td>18</td>
</tr>
<tr>
<td>59386</td>
<td>16 x 2 x 0.75</td>
<td>20.0</td>
<td>373.0</td>
<td>520.0</td>
<td>18</td>
</tr>
</tbody>
</table>

Dimensions and specifications may be changed without prior notice. (RW01)
**Marine Telecommunication Cables FMSGSGO**

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

---

### Technical data
- According to VG 95218 part 63
- **Conductor operating temperature**
  - max. +85°C
  - Min. installation temperature -10°C
- **Nominal voltage** 250 V
- **Minimum bending radius** approx. 3-5x cable Ø

### 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
- Sheath colour black

### Properties
- Oil resistant and flame retardant
- **Colour code for cores**
  - Pair/counting pair: black/blue
  - Pair/counting direction pair: black/brown
  - Subsequent pairs: black/grey

**Approved by**
- BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

### Application
For fixed installation on marine craft above and below deck.

### Properties
- Oil resistant and flame retardant
- **Colour code for cores**
  - Pair/counting pair: black/blue
  - Pair/counting direction pair: black/brown
  - Subsequent pairs: black/grey

**Approved by**
- BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

### Note
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

---

### Application
For fixed installation on marine craft above and below deck.

### Properties
- Oil resistant and flame retardant
- **Colour code for cores**
  - Pair/counting pair: black/blue
  - Pair/counting direction pair: black/brown
  - Subsequent pairs: black/grey

**Approved by**
- BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

### Note
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

---

### Dimensions and specifications may be changed without prior notice. (RW01)
**Light Marine Telekommunikation Cables**

**LFMGSSGO** halogen-free, 2x Cu-screened

### Technical data
- According to VG 95218 part 64, 2x copper 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. 6x cable Ø

### 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
- Sheath colour black

### Properties
- Oil resistant and flame retardant
- **Colour code for cores**
  - Pair/counting pair: black/blue
  - Pair/counting direction pair: black/brown
  - Subsequent pairs: black/grey
- **Approved by** BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

### Application
For fixed installation on marine craft above and below decks.

### Dimensions and specifications
<table>
<thead>
<tr>
<th>Part No.</th>
<th>No.pairs x cross-sec. mm²</th>
<th>Outer Ø ca. mm</th>
<th>Cop. weight kg / km</th>
<th>Weight ca. kg / km</th>
</tr>
</thead>
<tbody>
<tr>
<td>59390</td>
<td>2 x 2 x 0.4</td>
<td>8.0</td>
<td>60.0</td>
<td>95.0</td>
</tr>
<tr>
<td>59391</td>
<td>4 x 2 x 0.4</td>
<td>10.5</td>
<td>95.0</td>
<td>145.0</td>
</tr>
<tr>
<td>59392</td>
<td>7 x 2 x 0.4</td>
<td>12.5</td>
<td>146.0</td>
<td>220.0</td>
</tr>
</tbody>
</table>

Dimensions and specifications may be changed without prior notice. (RW01)
Light Marine Telecommunication Cables
LFMSGSSGO halogen-free, 2x Cu-screened

Technical data
- According to VG 95218 part 66, 2x copper 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. 6x cable Ø

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
- Polyester foil separator
- Elastomere based outer sheath
- Sheath colour black

Properties
- Oil resistant and flame retardant
- Colour code
  All sizes and dimensions are colour coded
- Approved by
  BWB (Bundesamt für Wehrtechnik und Beschaffung), i.e. German Federal Office for Defence and Procurement

Application
For fixed installation on marine craft above and below decks.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No. pairs x cross-sec. mm²</th>
<th>Outer Ø ca. mm</th>
<th>Cop. weight kg / km</th>
<th>Weight ca. kg / km</th>
</tr>
</thead>
<tbody>
<tr>
<td>59396</td>
<td>5 x 3 x 0.4</td>
<td>16.0</td>
<td>248.0</td>
<td>420.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No. pairs x cross-sec. mm²</th>
<th>Outer Ø ca. mm</th>
<th>Cop. weight kg / km</th>
<th>Weight ca. kg / km</th>
</tr>
</thead>
<tbody>
<tr>
<td>59397</td>
<td>12 x 3 x 0.4</td>
<td>25.0</td>
<td>500.0</td>
<td>740.0</td>
</tr>
</tbody>
</table>

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

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

Properties
- Flame resistant and self-extinguishing as per VDE 0472, part 804, test Band IEC 60332-1
- Oil resistant according to DIN VDE 0250
- Approved by Germanischer Lloyd

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No.cores x cross-sec.</th>
<th>Outer Ø ca. mm</th>
<th>Cop. weight kg / km</th>
<th>Weight ca. kg / km</th>
<th>AWG-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>59450</td>
<td>1 x 6</td>
<td>8.3</td>
<td>57.4</td>
<td>148.0</td>
<td>10</td>
</tr>
<tr>
<td>59451</td>
<td>1 x 10</td>
<td>10.3</td>
<td>96.8</td>
<td>221.0</td>
<td>8</td>
</tr>
<tr>
<td>59452</td>
<td>1 x 16</td>
<td>10.3</td>
<td>153.4</td>
<td>293.0</td>
<td>6</td>
</tr>
<tr>
<td>59453</td>
<td>1 x 25</td>
<td>13.7</td>
<td>239.5</td>
<td>447.0</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No.cores x cross-sec.</th>
<th>Outer Ø ca. mm</th>
<th>Cop. weight kg / km</th>
<th>Weight ca. kg / km</th>
<th>AWG-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>59454</td>
<td>1 x 55</td>
<td>15.2</td>
<td>355.0</td>
<td>565.0</td>
<td>2</td>
</tr>
<tr>
<td>59455</td>
<td>1 x 50</td>
<td>18.1</td>
<td>479.5</td>
<td>788.0</td>
<td>1</td>
</tr>
<tr>
<td>59456</td>
<td>1 x 70</td>
<td>21.1</td>
<td>671.0</td>
<td>1061.0</td>
<td>2/0</td>
</tr>
<tr>
<td>59457</td>
<td>1 x 95</td>
<td>22.8</td>
<td>910.0</td>
<td>1355.0</td>
<td>3/0</td>
</tr>
</tbody>
</table>

Dimensions and specifications may be changed without prior notice. (RW01)
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. 7.5x cable Ø

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
- Core stranded according to DIN VDE 0207 part 5
- Sheath colour grey (RAL 7001)

Properties
- Extensively oil resistant.
- Chemical Resistance - see table Technical Informations
- Flame resistant and self-extinguishing as per VDE 0472, part 804, test 8 and IEC 60332-1
- Approved by Germanischer Lloyd

Note
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No. cores x cross-sec. mm²</th>
<th>Outer ø ca. mm</th>
<th>Cop. weight kg / km</th>
<th>Weight ca. kg / km</th>
<th>AWG-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>59460</td>
<td>2 x 1.5</td>
<td>9.7</td>
<td>28.7</td>
<td>146.0</td>
<td>16</td>
</tr>
<tr>
<td>59461</td>
<td>3 x 1.5</td>
<td>10.1</td>
<td>43.1</td>
<td>166.0</td>
<td>16</td>
</tr>
<tr>
<td>59462</td>
<td>4 x 1.5</td>
<td>10.8</td>
<td>57.5</td>
<td>198.0</td>
<td>16</td>
</tr>
<tr>
<td>59463</td>
<td>5 x 1.5</td>
<td>11.6</td>
<td>71.9</td>
<td>230.0</td>
<td>16</td>
</tr>
<tr>
<td>59464</td>
<td>7 x 1.5</td>
<td>13.3</td>
<td>100.6</td>
<td>299.0</td>
<td>16</td>
</tr>
<tr>
<td>59465</td>
<td>3 x 2.5</td>
<td>11.6</td>
<td>72.1</td>
<td>231.0</td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No. cores x cross-sec. mm²</th>
<th>Outer ø ca. mm</th>
<th>Cop. weight kg / km</th>
<th>Weight ca. kg / km</th>
<th>AWG-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>59466</td>
<td>4 x 2.5</td>
<td>13.3</td>
<td>95.6</td>
<td>298.0</td>
<td>14</td>
</tr>
<tr>
<td>59467</td>
<td>5 x 2.5</td>
<td>14.3</td>
<td>120.0</td>
<td>355.0</td>
<td>14</td>
</tr>
<tr>
<td>59468</td>
<td>4 x 4</td>
<td>16.2</td>
<td>155.5</td>
<td>358.0</td>
<td>14</td>
</tr>
<tr>
<td>59469</td>
<td>5 x 4</td>
<td>17.5</td>
<td>193.0</td>
<td>535.0</td>
<td>12</td>
</tr>
<tr>
<td>59470</td>
<td>4 x 6</td>
<td>18.4</td>
<td>230.3</td>
<td>595.0</td>
<td>10</td>
</tr>
<tr>
<td>59471</td>
<td>5 x 6</td>
<td>19.7</td>
<td>288.0</td>
<td>714.0</td>
<td>10</td>
</tr>
</tbody>
</table>

Dimensions and specifications may be changed without prior notice. (RW01)
Ships Power Cables MPRX 0.6/1kV according to IEC 60992-353, halogen-free

Technical data
- As per IEC 60992-353
- Temperature range max. +85°C conductor temperature
- Min. installation temperature -10°C
- Nominal voltage Uo/U 0.6/1 kV
- Minimum bending radius approx. 4x cable Ø

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

Properties
- 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
- Approved by
  Germanischer Lloyd, Lloyd's Register of Shipping, American Bureau of Shipping, Det Norske Veritas, Bureau Veritas, Russian Maritime Register of Shipping and Registro Italiano Navale
- Tests
  Smoke density to IEC 61034 Halogen-free to 60754-1
  Corrosiveness of combustion gases to IEC 60754-2
  Flame retardant according to SOLAS definition (according to IEC 60332-3 category A and IEEE 45-18.13)

Note
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

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.

---

### Technical Specifications

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No. of cores x cross-sectional area [mm²]</th>
<th>Outer ø [mm]</th>
<th>Cop. weight [kg/km]</th>
<th>Weight [ca. kg/km]</th>
<th>AWG-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>59654</td>
<td>1 x 4</td>
<td>5.9</td>
<td>38.0</td>
<td>70.0</td>
<td>12</td>
</tr>
<tr>
<td>59655</td>
<td>1 x 6</td>
<td>6.4</td>
<td>58.0</td>
<td>95.0</td>
<td>10</td>
</tr>
<tr>
<td>59656</td>
<td>1 x 10</td>
<td>7.5</td>
<td>96.0</td>
<td>140.0</td>
<td>8</td>
</tr>
<tr>
<td>59657</td>
<td>1 x 16</td>
<td>8.2</td>
<td>154.0</td>
<td>200.0</td>
<td>6</td>
</tr>
<tr>
<td>59658</td>
<td>1 x 25</td>
<td>10.1</td>
<td>240.0</td>
<td>320.0</td>
<td>4</td>
</tr>
<tr>
<td>59659</td>
<td>1 x 35</td>
<td>11.1</td>
<td>356.0</td>
<td>420.0</td>
<td>2</td>
</tr>
<tr>
<td>59660</td>
<td>1 x 50</td>
<td>12.8</td>
<td>480.0</td>
<td>560.0</td>
<td>3</td>
</tr>
<tr>
<td>59661</td>
<td>1 x 70</td>
<td>14.9</td>
<td>672.0</td>
<td>780.0</td>
<td>2/0</td>
</tr>
<tr>
<td>59662</td>
<td>1 x 95</td>
<td>16.7</td>
<td>912.0</td>
<td>1030.0</td>
<td>3/0</td>
</tr>
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</table>

Dimensions and specifications may be changed without prior notice. (RWO1)
Ships Power Cables MPRX CX 0,6/1kV 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: U0/U 0.6/1 kV
- Minimum bending radius: approx. 4x cable Ø
Smoke density to IEC 61034
Halogen-free to 60754-1
Corrosiveness of combustion gases to IEC 60754-2

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

Properties
- Colour code: 1 core: black
  2 cores: black/blue
  3 cores: black/blue/brown
  4 cores: black/blue/brown/white
- Approved by: Germanischer Lloyd, Lloyd's 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)

Note
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- 3-core cables with green-yellow marked core and/or as MPRX CX 331 (insulation integrity to IEC 60331) also available.

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.

Part No. | No. cores x cross-sec. mm² | Outer ø ca. mm | Cop. weight kg / km | Weight ca. kg / km | AWC-No.
---|---|---|---|---|---
59707 | 1 x 4 | 7.3 | 81.0 | 105.0 | 12
59708 | 1 x 6 | 7.8 | 104.0 | 150.0 | 10
59709 | 1 x 8 | 9.9 | 149.0 | 180.0 | 8
59710 | 1 x 10 | 9.8 | 214.0 | 250.0 | 6
59711 | 1 x 12 | 11.7 | 311.0 | 380.0 | 4
59712 | 1 x 15 | 15.2 | 416.0 | 490.0 | 2
59713 | 1 x 18 | 14.8 | 572.0 | 660.0 | 1
59714 | 1 x 20 | 16.3 | 779.0 | 900.0 | 2
59715 | 1 x 25 | 13.7 | 1104.0 | 1170.0 | 5
59716 | 1 x 30 | 20.6 | 1516.0 | 1410.0 | 4
59717 | 1 x 50 | 22.7 | 1615.0 | 1750.0 | 3
59718 | 1 x 63 | 24.5 | 1968.0 | 2160.0 | 3
59719 | 1 x 100 | 27.2 | 2505.0 | 2770.0 | 500 kcmil
59720 | 1 x 300 | 30.4 | 3545.0 | 3440.0 | 600 kcmil
59721 | 2 x 1.5 | 5.9 | 105.0 | 130.0 | 16
59722 | 2 x 2.5 | 10.2 | 152.0 | 160.0 | 14
59723 | 2 x 4 | 11.4 | 170.0 | 205.0 | 12
59724 | 2 x 6 | 12.6 | 217.0 | 250.0 | 10
59725 | 2 x 8 | 14.8 | 400.0 | 507.0 | 8
59726 | 2 x 10 | 17.4 | 471.0 | 560.0 | 6
59727 | 2 x 16 | 20.4 | 670.0 | 840.0 | 4
59728 | 3 x 1.5 | 9.9 | 125.0 | 160.0 | 16
59729 | 3 x 2.5 | 10.8 | 161.0 | 200.0 | 14
59730 | 3 x 4 | 12.0 | 215.0 | 250.0 | 12
59731 | 3 x 6 | 13.2 | 282.0 | 360.0 | 10
59732 | 3 x 8 | 15.7 | 417.0 | 520.0 | 8
59733 | 3 x 10 | 18.0 | 636.0 | 750.0 | 6
59734 | 3 x 15 | 22.4 | 661.0 | 770.0 | 16

Part No. | No. cores x cross-sec. mm² | Outer ø ca. mm | Cop. weight kg / km | Weight ca. kg / km | AWC-No.
---|---|---|---|---|---
59735 | 4 x 16 | 18.0 | 636.0 | 750.0 | 6
59736 | 4 x 15 | 19.3 | 486.0 | 620.0 | 16
59737 | 4 x 10 | 21.4 | 723.0 | 870.0 | 16
59738 | 4 x 5 | 25.7 | 1578.0 | 1950.0 | 16
59739 | 6 x 6 | 13.2 | 282.0 | 360.0 | 10
59740 | 6 x 8 | 15.7 | 417.0 | 520.0 | 8
59741 | 6 x 10 | 18.0 | 636.0 | 750.0 | 6
59742 | 6 x 15 | 22.4 | 661.0 | 770.0 | 16
59743 | 8 x 10 | 19.3 | 486.0 | 620.0 | 16
59744 | 8 x 15 | 22.4 | 661.0 | 770.0 | 16
59745 | 8 x 20 | 25.7 | 1578.0 | 1950.0 | 16
59746 | 10 x 16 | 18.2 | 542.0 | 650.0 | 16
59747 | 10 x 15 | 18.2 | 542.0 | 650.0 | 16
59748 | 10 x 10 | 21.4 | 723.0 | 870.0 | 16
59749 | 10 x 5 | 25.7 | 1578.0 | 1950.0 | 16
59750 | 12 x 16 | 18.2 | 542.0 | 650.0 | 16
59751 | 12 x 15 | 18.2 | 542.0 | 650.0 | 16
59752 | 12 x 10 | 21.4 | 723.0 | 870.0 | 16
59753 | 12 x 5 | 25.7 | 1578.0 | 1950.0 | 16
59754 | 14 x 16 | 18.2 | 542.0 | 650.0 | 16
59755 | 14 x 15 | 18.2 | 542.0 | 650.0 | 16
59756 | 14 x 10 | 21.4 | 723.0 | 870.0 | 16
59757 | 14 x 5 | 25.7 | 1578.0 | 1950.0 | 16
59758 | 16 x 16 | 18.2 | 542.0 | 650.0 | 16
59759 | 16 x 15 | 18.2 | 542.0 | 650.0 | 16
59760 | 16 x 10 | 21.4 | 723.0 | 870.0 | 16
59761 | 16 x 5 | 25.7 | 1578.0 | 1950.0 | 16

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