

ELSEWEDY
CABLES

MARINE CABLES





A COMPLETE RANGE OF MARINE CABLES FOR SHIPBUILDING, OFFSHORE AND RETROFITS

Elsewedy Cables provides a specialized portfolio of marine and shipboard cables tailored for the most demanding power, control, and instrumentation systems.

Engineered for high-performance in shipyards, offshore platforms, and global retrofit applications, our cables are built to navigate the extreme conditions of the maritime industry.

Manufactured to ensure maximum operational safety and full compliance with SOLAS (Safety of Life at Sea) regulations.



Bulk carriers



Fishing vessels



Cruise ships
and yachts



Floatels



Tug Boats



Drillships



Feeder's vessels



Patrol Vessels

Marine Power cable

According to IEC 60092-353



APPLICATION

For fixed installation in most areas and on open deck in ships and offshore units.

CONSTRUCTION

CONDUCTOR

Plain Copper Conductor according to IEC 60228, Stranded (Class 2) or Flexible (Class 5).

****Tinned copper conductor on request**

INSULATION

Cross linked insulating compound according to IEC 60092-360.

The standard identification is the following:

- 1 x Natural
- 2 x Blue + Brown
- 3 x Brown + Black + Grey
- 4 x Brown + Black + Grey + Blue
- 5 or more conductors Black numbered

****Other colors available on request.**

INNER SHEATH (OPTIONAL)

Low smoke halogen free thermoplastic polyolefin

OUTER SHEATH

Low smoke halogen free thermoplastic polyolefin, type SHF1 according to IEC 60092-360.

Non-toxic, Flame retardant.

PERFORMANCE

ELECTRICAL PERFORMANCE

- Low voltage: 0,6/1 kV.

THERMAL PERFORMANCE

- Maximum conductor temperature: 90°C.
- Maximum short-circuit temperature: 250°C (max 5 s).
- Lowest installation temperature: -15°C

FIRE PERFORMANCE

-  • Flame non-propagation according to IEC 60332-1.
- Flame non-propagation according to IEC 60332-3-22.
- Low smoke halogen free according to IEC 60754-1.
- Low corrosive gases emission according to IEC 60754-2.
- Low smoke emission according to IEC 61034:

MECHANICAL PERFORMANCE

- Minimum bending radius during installation:
 1. $\leq 25\text{mm}$ 4x cable diameter.
 2. $> 25\text{mm}$ 6x cable diameter.

ENVIRONMENTAL PERFORMANCE

- Chemical & Oil resistance: Good.

INSTALLATION CONDITIONS

- In conduit on a bulkhead.
- On a bulkhead.

STANDARDS

- IEC 60092-353
- IEC 60228
- IEC 60332-3-22
- IEC 60092-350
- IEC 60332-1
- IEC 60754-1/2
- IEC 61034-1/2

Fire resistant Marine Power cable

According to IEC 60092-353



APPLICATION

For fixed installation in most areas and on open deck in ships and offshore units. If the cable is exposed to direct sun light, protective covering or cable with black outer sheath is recommended.

CONSTRUCTION

CONDUCTOR

Plain Copper Conductor according to IEC 60228, Stranded (Class 2) or Flexible (Class 5).

****Tinned copper conductor on request**

INSULATION

Mica Tapes + Cross linked insulating compound according to IEC 60092-360.

The standard identification is the following:

- 1 x Natural
- 2 x Blue + Brown
- 3 x Brown + Black + Grey
- 4 x Brown + Black + Grey + Blue
- 5 or more conductors Black numbered

****Other colors available on request.**

INNER SHEATH (OPTIONAL)

Low smoke halogen free thermoplastic polyolefin

OUTER SHEATH

Low smoke halogen free thermoplastic polyolefin, type SHF1 according to IEC 60092-360.

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PERFORMANCE

ELECTRICAL PERFORMANCE

- Low voltage: 0,6/1 kV.

THERMAL PERFORMANCE

- Maximum conductor temperature: 90°C.
- Maximum short-circuit temperature: 250°C (max 5 s).
- Lowest installation temperature: -15°C

FIRE PERFORMANCE

-  • Flame non-propagation according to IEC 60332-1.
- Flame non-propagation according to IEC 60332-3-22.
- Fire resistant according to IEC 60331-21.
- Low smoke halogen free according to IEC 60754-1.
- Low corrosive gases emission according to IEC 60754-2.
- Low smoke emission according to IEC 61034:

MECHANICAL PERFORMANCE

- Minimum bending radius during installation:
 1. ≤ 25mm 4x cable diameter.
 2. > 25mm 6x cable diameter.

ENVIRONMENTAL PERFORMANCE

- Chemical & Oil resistance: Good.

INSTALLATION CONDITIONS

- In conduit on a bulkhead.
- On a bulkhead.

STANDARDS

- IEC 60092-353
- IEC 60092-350
- IEC 60331-21
- IEC 60332-1
- IEC 60332-3-22
- IEC 60754-1/2
- IEC 61034-1/2

Armored Marine Power cable

According to IEC 60092-353



APPLICATION

For fixed installation in most areas and on open deck in ships and offshore units.

CONSTRUCTION

Conductor

Plain Copper Conductor according to IEC 60228, Stranded (Class 2) or Flexible (Class 5).

****Tinned copper conductor on request**

Insulation

Cross linked cross-linked insulating compound according to IEC 60092-360.

The standard identification is the following:

- 1 x Natural
- 2 x Blue + Brown
- 3 x Brown + Black + Grey
- 4 x Brown + Black + Grey + Blue
- 5 or more conductors Black numbered

****Other colors available on request.**

Inner sheath (Optional)

Low smoke halogen free thermoplastic polyolefin

Armoring

Copper wire Coverage Density > 90 %
tinned copper wire braid on request
Steel wire Braid

Outer sheath

Low smoke halogen free thermoplastic polyolefin, type SHFI according to IEC 60092-360.
Non-toxic, Flame retardant.

PERFORMANCE



Electrical performance

- Low voltage: 0,6/1 kV.



Thermal performance

- Maximum conductor temperature: 90°C.
- Maximum short-circuit temperature: 250°C (max 5 s).
- Lowest installation temperature: -15°C

Fire performance



- Flame non-propagation according to IEC 60332-1.
- Flame non-propagation according to IEC 60332-3-22.
- Low smoke halogen free according to IEC 60754-1.
- Low corrosive gases emission according to IEC 60754-2.
- Low smoke emission according to IEC 61034:



Mechanical performance

- Minimum bending radius during installation:
- 1. 6x cable diameter.



Environmental performance

- Chemical & Oil resistance: Good.



Installation conditions

- In conduit on a bulkhead.
- On a bulkhead.

STANDARDS

- IEC 60092-353
- IEC 60228
- IEC 60332-3-22
- IEC 60092-350
- IEC 60332-1
- IEC 60754-1/2
- IEC 61034-1/2

Armored Fire resistant Marine Power cable

According to IEC 60092-353



APPLICATION

For fixed installation in most areas and on open deck in ships and offshore units.

CONSTRUCTION

Conductor

Plain Copper Conductor according to IEC 60228, Stranded (Class 2) or Flexible (Class 5).

****Tinned copper conductor on request**

Insulation

Mica tapes + Cross linked insulating compound according to IEC 60092-360.

The standard identification is the following:

- 1 x Natural
- 2 x Blue + Brown
- 3 x Brown + Black + Grey
- 4 x Brown + Black + Grey + Blue
- 5 or more conductors Black numbered

****Other colors available on request.**

Inner sheath (Optional)

Low smoke halogen free thermoplastic polyolefin

Armoring

Copper wire Coverage Density > 90 %
tinned copper wire braid on request
Steel wire Braid

Outer sheath

Low smoke halogen free thermoplastic polyolefin, type SHFI according to IEC 60092-360.
Non-toxic, Flame retardant.

PERFORMANCE

⚡ Electrical performance

- Low voltage: 0,6/1 kV.

🌡 Thermal performance

- Maximum conductor temperature: 90°C.
- Maximum short-circuit temperature: 250°C (max 5 s).
- Lowest installation temperature: -15°C

🔥 Fire performance

- Flame non-propagation according to IEC 60332-1.
- Flame non-propagation according to IEC 60332-3-22.
- Fire resistant according to IEC 60331-21.
- Low smoke halogen free according to IEC 60754-1.
- Low corrosive gases emission according to IEC 60754-2.
- Low smoke emission according to IEC 61034:

⚙ Mechanical performance

- Minimum bending radius during installation:
- 1. 6x cable diameter.

🌐 Environmental performance

- Chemical & Oil resistance: Good.

🔧 Installation conditions

- In conduit on a bulkhead.
- On a bulkhead.

STANDARDS

- IEC 60092-353
- IEC 60228
- IEC 60332-3-22
- IEC 60092-350
- IEC 60332-21
- IEC 60754-1/2
- IEC 61034-1/2

Armored pair instrumentation and communication cable

According to IEC 60092-376



APPLICATION

For fixed installation in most areas and on open deck in ships and offshore units. If the cable is exposed to direct sun light protective covering or cable with black outer sheath is recommended.

CONSTRUCTION

Conductor

Plain Copper Conductor according to IEC 60228, Stranded (Class 2) or Flexible (Class 5).

****Tinned copper conductor on request**

Insulation

Cross linked cross-linked insulating compound according to IEC 60092-360.

The standard identification is the following:

- | | |
|----------------------|-----------------------------|
| 1 x | Natural |
| 2 x | Blue + Brown |
| 3 x | Brown + Black + Grey |
| 4 x | Brown + Black + Grey + Blue |
| 5 or more conductors | Black numbered |

****Other colors available on request.**

Inner sheath (Optional)

Low smoke halogen free thermoplastic polyolefin

Armoring / Screening

drain wire copper
copper wire braid, coverage Density > 90% IEC 60092-350
tinned copper wire braid on request
the amour serves as a collective screen

Outer sheath

Low smoke halogen free thermoplastic polyolefin, type SHFI according to IEC 60092-360.
Non-toxic, Flame retardant.

PERFORMANCE



Electrical performance

- Low voltage: 150/250V (300V)



Thermal performance

- Maximum conductor temperature: 90°C.
- Maximum short-circuit temperature: 250°C (max 5 s).
- Lowest installation temperature: -15°C



Fire performance

- Flame non-propagation according to IEC 60332-1.
- Flame non-propagation according to IEC 60332-3-22.
- Low smoke halogen free according to IEC 60754-1.
- Low corrosive gases emission according to IEC 60754-2.
- Low smoke emission according to IEC 61034:



Mechanical performance

- Minimum bending radius during installation:
- 1. 6x cable diameter.



Environmental performance

- Chemical & Oil resistance: Good.



Installation conditions

- In conduit on a bulkhead.
- On a bulkhead.

STANDARDS

- | | | |
|-----------------|---------------|------------------|
| • IEC 60092-353 | • IEC 60228 | • IEC 60332-3-22 |
| • IEC 60092-350 | • IEC 60332-1 | • IEC 60754-1/2 |
| | | • IEC 61034-1/2 |

Armored fire resistant pair instrumentation and communication cable

According to IEC 60092-376



APPLICATION

For fixed installation in most areas and on open deck in ships and offshore units. If the cable is exposed to direct sun light protective covering or cable with black outer sheath is recommended.

CONSTRUCTION

Conductor

Plain Copper Conductor according to IEC 60228, Stranded (Class 2) or Flexible (Class 5).

****Tinned copper conductor on request**

Insulation

Mica tapes + Cross-linked insulating compound according to IEC 60092-360.

The standard identification is the following:

- 1 x Natural
- 2 x Blue + Brown
- 3 x Brown + Black + Grey
- 4 x Brown + Black + Grey + Blue
- 5 or more conductors Black numbered

****Other colors available on request.**

Inner sheath (Optional)

Low smoke halogen free thermoplastic polyolefin

Armoring / Screening

drain wire copper
copper wire braid, coverage > 90% IEC 60092-350
tinned copper wire braid on request
the armour serves as a collective screen

Outer sheath

Low smoke halogen free thermoplastic polyolefin, type SHFI according to IEC 60092-360.
Non-toxic, Flame retardant.

PERFORMANCE



Electrical performance

- Low voltage: 150/250V (300V)



Thermal performance

- Maximum conductor temperature: 90°C.
- Maximum short-circuit temperature: 250°C (max 5 s).
- Lowest installation temperature: -15°C

Fire performance



- Flame non-propagation according to IEC 60332-1.
- Flame non-propagation according to IEC 60332-3-22.
- Low smoke halogen free according to IEC 60754-1.
- Low corrosive gases emission according to IEC 60754-2.
- Low smoke emission according to IEC 61034:
- Fire resistant according to IEC 60331-21



Mechanical performance

- Minimum bending radius during installation:
- 1. 6x cable diameter.



Environmental performance

- Chemical & Oil resistance: Good.



Installation conditions

- In conduit on a bulkhead.
- On a bulkhead.

STANDARDS

- IEC 60092-353
- IEC 60228
- IEC 60332-3-22
- IEC 60092-350
- IEC 60332-21
- IEC 60754-1/2
- IEC 61034-1/2



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