# 0.6/1kV EPR Insulated Marine Power Cable

**0.6/1KV · EPR · IEC 60092-353**

The standard low-voltage shipboard power cable for feeders, distribution boards and auxiliary circuits, built to IEC 60092-353 with a halogen-free sheath option.

| RATED VOLTAGE | CONDUCTOR | INSULATION | SHEATH |
|---|---|---|---|
| 0.6/1kV | Tinned Cu, cl. 2 | EPR | SHF1 / SHF2 / LSZH |

## TYPICAL APPLICATIONS

- Main switchboard feeders
- Engine-room auxiliary circuits
- Deck and hull wiring
- Lighting and small-power distribution

## CONSTRUCTION

- Tinned copper conductor, class 2 stranded to IEC 60228
- EPR insulation to IEC 60092-351
- Cores laid up with fillers and a binder tape
- SHF1, SHF2 or LSZH sheath to IEC 60092-359
- Optional steel wire or steel tape armour
- Numbered cores or colour identification to specification

## TECHNICAL DATA

| | | | |
|---|---|---|---|
| **Rated voltage** | 0.6/1kV (Um 1.2kV; 3.5kV AC test) | **Core range** | 1 to 37 cores, 1.5 to 300 mm² |
| **Conductor** | Tinned copper, class 2 to IEC 60228 | **Operating temperature** | -40 °C to +90 °C, 250 °C short circuit |
| **Insulation** | EPR (ethylene propylene rubber) | **Flame propagation** | IEC 60332-1-2 and IEC 60332-3-22 |
| **Sheath** | SHF1, SHF2 or LSZH compound | **Construction standard** | IEC 60092-353 |

Typical values. The final construction is confirmed on the order datasheet and the released drawing.

## STANDARDS, TESTING AND DOCUMENTS

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|---|---|
| **Routine tests** | Conductor resistance, voltage test and insulation resistance on every length |
| **Type tests** | Type-test reports for each construction, witnessed by a third party on request |
| **Documents with the drum** | Packing list, drum list, routine test certificate, datasheet, CO / FORM A |
| **Traceability** | Drum number marked and recorded against the routine test certificate |

## OTHER CONSTRUCTIONS FROM THE SAME RANGE

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|---|---|
| **3.6/6kV–26/35kV Medium Voltage Marine Power Cable** | www.zmsmarinecable.com/products/marine-power-cables/mv-shipboard-propulsion-cable/ |
| **LSZH Flame Retardant Marine Cable** | www.zmsmarinecable.com/products/marine-power-cables/lszh-flame-retardant-marine-cable/ |

## PACKING AND DELIVERY

| | |
|---|---|
| **Drum** | Wooden or steel-framed export drum, 250–500 m per drum by cross-section |
| **Packing** | Sealed ends, protected lugs, desiccant, UV-resistant wrap |
| **Marking** | Drum no., designation, voltage, cross-section, length, gross weight |
| **Lead time** | 15–25 working days for standard builds |
| **Terms** | FOB Qingdao, Tianjin or Shanghai. CIF, CFR and DAP on request |

## HOW TO ORDER

To quote, send the voltage class (U0/U), conductor material and cross-section, screen or armour, sheath, drum length, delivery port and the standard the project specifies. We return a released drawing, the test programme and a drum plan with the quotation.

## SELECTION NOTES

**EPR or XLPE for a shipboard feeder?**
EPR stays flexible at low temperature and tolerates vibration better, which suits engine-room and deck runs. XLPE has a higher continuous rating for the same cross-section. Both are available to IEC 60092-353 and the choice is normally fixed by the vessel specification.

**Is the cable suitable for a 90 °C ambient?**
The conductor is rated 90 °C continuous. Where the ambient exceeds 45 °C, or where cables are grouped in a duct, apply the derating factors in IEC 60092-352 and confirm the final cross-section with the electrical design.

**Which sheath should be specified?**
SHF2 is the usual choice for open deck and machinery spaces. LSZH is specified for accommodation, public spaces and any zone where the fire-safety concept requires low smoke and zero halogen.

**Certification.** Environmental management to ISO 14001:2015 and occupational health and safety to ISO 45001:2018, with CE marking under the EU low-voltage and EMC directives. Independent inspection and type testing are carried out through ISO/IEC 17020 and 17025 accredited laboratories. Certificate numbers and validity dates are published at www.zmsmarinecable.com/certificates/.

## Request a quotation for this cable

Send the specification sheet or the cable schedule and we return a released drawing, the test programme and a drum plan with the price.

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