



● Introduction

Medium Voltage (MV) XLPE Insulated Power and Control Marine Cables are designed for the transmission of electrical power and control signals in marine environments. These cables are specifically engineered to withstand the harsh conditions encountered in maritime and offshore settings. They are insulated with Cross-Linked Polyethylene (XLPE), materials known for their exceptional electrical, thermal, and mechanical properties.

● Application

Suitable for the distribution and transmission of medium voltage electric energy in various aquatic buildings such as warships, river and sea ships and offshore oil platforms.

● Construction

1. Conductor: copper wire or tinned copper wire
2. Conductor screen: semi-conducting layer
3. Insulation: XLPE
4. Insulation screen: semi-conducting layer
5. Metallic screen: copper tape or copper wire
6. Filler
7. Binder tape (for 3-core cable only)
8. Inner sheath(optional): PVC, or PE, or XLPO
9. Armour(optional): tinned copper wire braid, or galvanized steel wires braid, or aluminum alloy wire braid
10. Outer sheath: PVC, or PE, or XLPO

● Specification

- IEC 60092-350, IEC 60092-354, IEC60092-360, IEC60228
- Flame Retardant: According to IEC 60332-1 & IEC 60332-3-24 or IEC 60332-3-22
- Fire Resistant: According to IEC 60331
- Low Smoke Emission: According to IEC 61034-1 and -2
- Halogen Free: According to IEC60754-1 and -2

● Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction. CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

● Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



● National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China. We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

● Technical Parameters

| Nominal Cross Section Area of Conductor | No. of Cores | Insulation Thickness | | | | | |
|---|-------------------|----------------------|--------|----------|---------|---------|-----|
| | | 3.6/6kV | 6/10kV | 8.7/15kV | 12/20kV | 18/30kV | |
| mm ² | - | mm | mm | mm | mm | mm | |
| 10 | 1 core or 3 cores | 2.5 | - | - | - | - | |
| 16 | | 2.5 | 3.4 | - | - | - | |
| 25 | | 2.5 | 3.4 | 4.5 | - | - | |
| 35 | | 2.5 | 3.4 | 4.5 | 5.5 | - | |
| 50 | | 2.5 | 3.4 | 4.5 | 5.5 | 8.0 | |
| 70 | | 2.5 | 3.4 | 4.5 | 5.5 | 8.0 | |
| 95 | | 2.5 | 3.4 | 4.5 | 5.5 | 8.0 | |
| 120 | | 2.5 | 3.4 | 4.5 | 5.5 | 8.0 | |
| 150 | | 2.5 | 3.4 | 4.5 | 5.5 | 8.0 | |
| 185 | | 2.5 | 3.4 | 4.5 | 5.5 | 8.0 | |
| 240 | | 2.6 | 3.4 | 4.5 | 5.5 | 8.0 | |
| 300 | | 2.8 | 3.4 | 4.5 | 5.5 | 8.0 | |
| 400 | | 3.0 | 3.4 | 4.5 | 5.5 | 8.0 | |
| 500 | | 3.2 | 3.4 | 4.5 | 5.5 | 8.0 | |
| 185 | | | | 1.6 | 2.0 | 2.0 | 2.4 |
| 240 | | | | 1.7 | 2.2 | 2.0 | 2.4 |
| 300 | | | | 1.8 | 2.4 | 2.0 | 2.4 |