



## • Introduction

XLPE (Cross-Linked Polyethylene) or PE (Polyethylene) insulated shipboard communication & instrumentation marine cables are designed for transmitting communication signals and instrumentation data in marine environments. These cables are essential for ensuring reliable communication and precise instrumentation on ships, offshore platforms, and other maritime structures. They are engineered to withstand the challenging conditions found in marine settings, such as exposure to saltwater, oil, mechanical stress, and extreme temperatures.

## • Application

Suitable for signal transmission and control system in ship telecommunication, electronic computer, information processing equipment.

## • Construction

1. Conductor: copper wire or tinned copper wire
2. Insulation: PE or XLPE  
XLPE provides high-temperature resistance, good electrical properties, and mechanical strength.  
EPR offers excellent flexibility, good electrical insulation properties, and resistance to moisture and chemicals.
3. Binder tape
4. Separate shielding: copper wire braid shielding, or copper-plastic composite tape shielding, or aluminum-plastic composite tape shield
5. Binder tape
6. Filler
7. Binder tape
8. Sub-main shielding: copper wire braid shielding, or copper-plastic composite tape shielding, or aluminum-plastic composite tape shield
9. Outer sheath: PVC, or PE, or XLPO

## • Specification

- IEC60092-350, IEC60092-376, IEC60092-360
- 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	
		150/250V PE/XLPE	300/500V PE/XLPE
mm <sup>2</sup>	-	mm	mm
0.35	2 cores to 61 cores	0.3	0.4
0.5		0.3	0.4
0.75		0.4	0.5
1		--	0.5
1.5		--	0.6
2.5		--	0.6