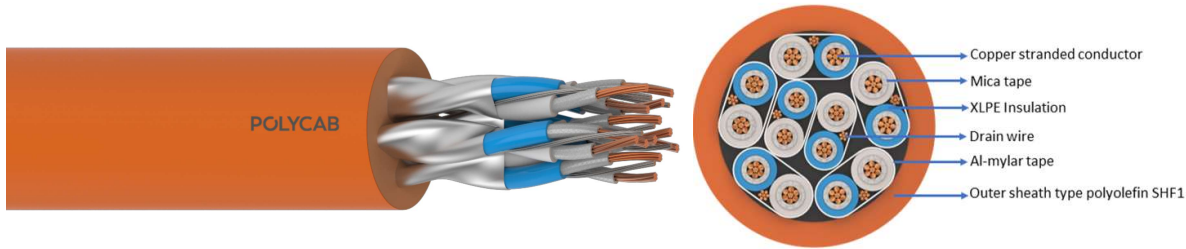


# POLYCAB MARINE INSTRU. 300 SINGLE & MP. Fire Survival Instrumentation XLPE Individual Shielded 150/250 (300) V



Images not to scale. Follow table for dimensions

## APPLICATION

POLYCAB MARINE Single and Multipair Individual shielded Fire Survival Instrumentation cable is suitable to use in fixed installation in instrumentation, control and communication circuits on sea vessels and offshore platforms.

## CHARACTERISTICS

### Voltage Rating

150/250 (300) V

### Operation Temperature

Max.: 90°C

### Bending Radius

Min. 8D; D is cable diameter

### Test Voltage

1500V AC at (20±5)°C

## CONSTRUCTION

- Annealed plain stranded copper conductor as per IEC 60228, Class-2 (tinned on request),
- Extruded XLPE Insulation,
- Insulated cores twisted to form pairs,
- Pairs shielded with Al.Mylar tape along with drain wire,
- Individual shielded pairs assembled together (filler optional), taped
- Extruded Polyolefin Halogen Free SHF1 Outer Sheath (Halogen Free SHF2 on request), Colour: Black. (other colours available on request).

### Core Identification

White & Blue for Pair

Outer sheath colour: Black

## OUTSTANDING FEATURES

- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission

## STANDARD FOLLOWS

IEC 60228:2005

IEC 60092-350:2020

IEC 60092-376:2017

IEC 60092-360:2014

## COMPLIANCE

Fire Retardant	IEC 60332-3-22 (Cat.A)
Flame Retardant	IEC 60332-1-2
Halogen free	IEC 60754-1 / IEC 60684-2
Corrosivity of Gases	IEC 60754-2
Smoke Density	IEC 61034-1 and 2

## OUR ACCREDITATIONS



## APPROVAL



# POLYCAB MARINE INSTRU. 300 SINGLE & MP. Fire Survival Instrumentation XLPE Individual Shielded 150/250 (300) V

## DIMENSIONS AND WEIGHTS:

Product Code	No. of Pairs	Cross Sectional Area (mm <sup>2</sup> )	Nom. Insulation Thickness (mm)	Nom. Sheath Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
ICIE31CXUAEV001P0.5SAXXXP	1	0.5	0.4	1	7.4	66
ICIE31CXUAEV002P0.5SAXXXP	2	0.5	0.4	1.2	11.8	129
ICIE31CXUAEV003P0.5SAXXXP	3	0.5	0.4	1.2	12.6	167
ICIE31CXUAEV004P0.5SAXXXP	4	0.5	0.4	1.3	13.9	210
ICIE31CXUAEV005P0.5SAXXXP	5	0.5	0.4	1.3	15.3	254
ICIE31CXUAEV006P0.5SAXXXP	6	0.5	0.4	1.4	16.8	301
ICIE31CXUAEV007P0.5SAXXXP	7	0.5	0.4	1.4	16.8	332
ICIE31CXUAEV008P0.5SAXXXP	8	0.5	0.4	1.4	19.1	387
ICIE31CXUAEV010P0.5SAXXXP	10	0.5	0.4	1.5	21.8	482
ICIE31CXUAEV012P0.5SAXXXP	12	0.5	0.4	1.6	22.6	555
ICIE31CXUAEV014P0.5SAXXXP	14	0.5	0.4	1.6	23.9	634
ICIE31CXUAEV016P0.5SAXXXP	16	0.5	0.4	1.7	25.4	716
ICIE31CXUAEV018P0.5SAXXXP	18	0.5	0.4	1.7	26.9	799
ICIE31CXUAEV019P0.5SAXXXP	19	0.5	0.4	1.7	26.9	831
ICIE31CXUAEV020P0.5SAXXXP	20	0.5	0.4	1.8	28.5	885
ICIE31CXUAEV024P0.5SAXXXP	24	0.5	0.4	1.9	31.9	1062
ICIE31CXUAEV001P.75SAXXXP	1	0.75	0.5	1	8.3	80
ICIE31CXUAEV002P.75SAXXXP	2	0.75	0.5	1.2	13.4	159
ICIE31CXUAEV003P.75SAXXXP	3	0.75	0.5	1.3	14.3	208
ICIE31CXUAEV004P.75SAXXXP	4	0.75	0.5	1.3	15.8	262
ICIE31CXUAEV005P.75SAXXXP	5	0.75	0.5	1.4	17.4	318
ICIE31CXUAEV006P.75SAXXXP	6	0.75	0.5	1.5	19.2	377
ICIE31CXUAEV007P.75SAXXXP	7	0.75	0.5	1.5	19.2	417
ICIE31CXUAEV008P.75SAXXXP	8	0.75	0.5	1.5	21.8	487
ICIE31CXUAEV010P.75SAXXXP	10	0.75	0.5	1.7	25	607
ICIE31CXUAEV012P.75SAXXXP	12	0.75	0.5	1.7	25.9	700
ICIE31CXUAEV014P.75SAXXXP	14	0.75	0.5	1.8	27.4	800
ICIE31CXUAEV016P.75SAXXXP	16	0.75	0.5	1.8	29.1	905

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ICIE31CXUAEV018P.75SAXXXP	18	0.75	0.5	1.9	30.8	1011
ICIE31CXUAEV019P.75SAXXXP	19	0.75	0.5	1.9	30.8	1052
ICIE31CXUAEV020P.75SAXXXP	20	0.75	0.5	2	32.7	1122
ICIE31CXUAEV024P.75SAXXXP	24	0.75	0.5	2.1	36.6	1347
ICIE31CXUAEV001P1.0SAXXXP	1	1	0.5	1.1	8.6	89
ICIE31CXUAEV002P1.0SAXXXP	2	1	0.5	1.3	14	179
ICIE31CXUAEV003P1.0SAXXXP	3	1	0.5	1.3	15	235
ICIE31CXUAEV004P1.0SAXXXP	4	1	0.5	1.4	16.6	297
ICIE31CXUAEV005P1.0SAXXXP	5	1	0.5	1.4	18.4	362
ICIE31CXUAEV006P1.0SAXXXP	6	1	0.5	1.5	20.2	429
ICIE31CXUAEV007P1.0SAXXXP	7	1	0.5	1.5	20.2	476
ICIE31CXUAEV008P1.0SAXXXP	8	1	0.5	1.6	23	555
ICIE31CXUAEV010P1.0SAXXXP	10	1	0.5	1.7	26.4	693
ICIE31CXUAEV012P1.0SAXXXP	12	1	0.5	1.8	27.4	800
ICIE31CXUAEV014P1.0SAXXXP	14	1	0.5	1.8	28.9	916
ICIE31CXUAEV016P1.0SAXXXP	16	1	0.5	1.9	30.7	1037
ICIE31CXUAEV018P1.0SAXXXP	18	1	0.5	1.9	32.6	1159
ICIE31CXUAEV019P1.0SAXXXP	19	1	0.5	1.9	32.6	1206
ICIE31CXUAEV020P1.0SAXXXP	20	1	0.5	2	34.6	1286
ICIE31CXUAEV024P1.0SAXXXP	24	1	0.5	2.2	38.7	1545
ICIE31CXUAEV001P1.5SAXXXP	1	1.5	0.6	1.1	9.7	111
ICIE31CXUAEV002P1.5SAXXXP	2	1.5	0.6	1.3	15.9	225
ICIE31CXUAEV003P1.5SAXXXP	3	1.5	0.6	1.4	17.1	297
ICIE31CXUAEV004P1.5SAXXXP	4	1.5	0.6	1.4	18.9	378
ICIE31CXUAEV005P1.5SAXXXP	5	1.5	0.6	1.5	20.9	461
ICIE31CXUAEV006P1.5SAXXXP	6	1.5	0.6	1.6	23	548
ICIE31CXUAEV007P1.5SAXXXP	7	1.5	0.6	1.6	23	609
ICIE31CXUAEV008P1.5SAXXXP	8	1.5	0.6	1.7	26.2	711
ICIE31CXUAEV010P1.5SAXXXP	10	1.5	0.6	1.9	30.1	889

**POLYCAB MARINE INSTRU. 300 SINGLE & MP.**  
**Fire Survival Instrumentation XLPE Individual Shielded**  
**150/250 (300) V**

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ICIE31CXUAEV012P1.5SAXXXP	12	1.5	0.6	1.9	31.3	1029
ICIE31CXUAEV014P1.5SAXXXP	14	1.5	0.6	2	33	1180
ICIE31CXUAEV016P1.5SAXXXP	16	1.5	0.6	2	35.1	1336
ICIE31CXUAEV018P1.5SAXXXP	18	1.5	0.6	2.1	37.2	1495
ICIE31CXUAEV019P1.5SAXXXP	19	1.5	0.6	2.1	37.2	1557
ICIE31CXUAEV020P1.5SAXXXP	20	1.5	0.6	2.2	39.6	1660
ICIE31CXUAEV024P1.5SAXXXP	24	1.5	0.6	2.4	44.3	1997
ICIE31CXUAEV001P2.5SAXXXP	1	2.5	0.6	1.1	10.6	140
ICIE31CXUAEV002P2.5SAXXXP	2	2.5	0.6	1.4	17.6	286
ICIE31CXUAEV003P2.5SAXXXP	3	2.5	0.6	1.4	18.9	383
ICIE31CXUAEV004P2.5SAXXXP	4	2.5	0.6	1.5	20.9	489
ICIE31CXUAEV005P2.5SAXXXP	5	2.5	0.6	1.6	23.2	599
ICIE31CXUAEV006P2.5SAXXXP	6	2.5	0.6	1.7	25.5	713
ICIE31CXUAEV007P2.5SAXXXP	7	2.5	0.6	1.7	25.5	797
ICIE31CXUAEV008P2.5SAXXXP	8	2.5	0.6	1.8	29.1	929
ICIE31CXUAEV010P2.5SAXXXP	10	2.5	0.6	2	33.5	1163
ICIE31CXUAEV012P2.5SAXXXP	12	2.5	0.6	2	34.8	1351
ICIE31CXUAEV014P2.5SAXXXP	14	2.5	0.6	2.1	36.7	1552
ICIE31CXUAEV016P2.5SAXXXP	16	2.5	0.6	2.2	39	1760
ICIE31CXUAEV018P2.5SAXXXP	18	2.5	0.6	2.3	41.4	1972
ICIE31CXUAEV019P2.5SAXXXP	19	2.5	0.6	2.3	41.4	2056
ICIE31CXUAEV020P2.5SAXXXP	20	2.5	0.6	2.4	44	2190
ICIE31CXUAEV024P2.5SAXXXP	24	2.5	0.6	2.6	49.4	2636

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## Electrical Parameter :

Area of Conductor	Max. DC resistance of conductor at 20°C Plain wires	Max. DC resistance of conductor at 20°C Metal coated wires	Mutual capacitance	Inductance	Inductance to resistance ratio(L/R)
Sq.mm	Ohm/km	Ohm/km	nF/Km	mH/Km	μH/Ω
0.5	40.4	41.6	< 150	1	< 25
0.75	26.0	26.3	< 150	1	< 25
1	19.2	19.3	< 150	1	< 25
1.5	12.8	12.9	< 150	1	< 40
2.5	7.86	8.02	< 150	1	< 60