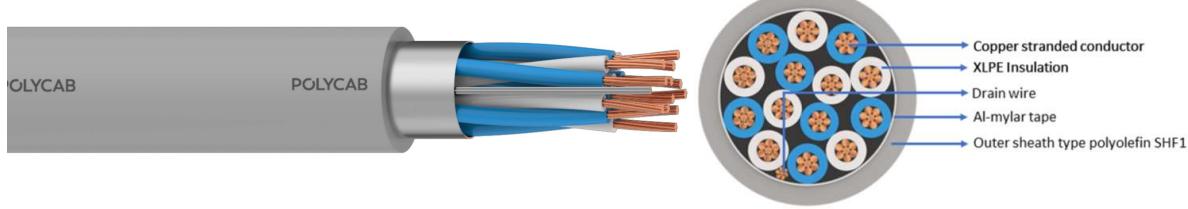


# POLY CAB MARINE INSTRU. 300. SINGLE & MP

## Instrumentation cable XLPE Insulated Individual Shielded

### 150/250 (300) V

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Images not to scale. Follow table for dimensions

## APPLICATION

POLY CAB MARINE Single and Multipair Individual shielded 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



## NOTES

As per the application/identification requirement, other colour also available on request.

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**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)
ICIE31CXUAEV001P.0.5SAXXXP	1	0.5	0.4	1	5.6	41
ICIE31CXUAEV002P.0.5SAXXXP	2	0.5	0.4	1.1	8.4	75
ICIE31CXUAEV003P.0.5SAXXXP	3	0.5	0.4	1.1	8.9	96
ICIE31CXUAEV004P.0.5SAXXXP	4	0.5	0.4	1.1	9.8	119
ICIE31CXUAEV005P.0.5SAXXXP	5	0.5	0.4	1.1	10.7	144
ICIE31CXUAEV006P.0.5SAXXXP	6	0.5	0.4	1.2	11.7	169
ICIE31CXUAEV007P.0.5SAXXXP	7	0.5	0.4	1.2	11.7	186
ICIE31CXUAEV008P.0.5SAXXXP	8	0.5	0.4	1.2	13.2	216
ICIE31CXUAEV010P.0.5SAXXXP	10	0.5	0.4	1.3	15.1	266
ICIE31CXUAEV012P.0.5SAXXXP	12	0.5	0.4	1.3	15.6	306
ICIE31CXUAEV014P.0.5SAXXXP	14	0.5	0.4	1.3	16.4	348
ICIE31CXUAEV016P.0.5SAXXXP	16	0.5	0.4	1.4	17.4	392
ICIE31CXUAEV018P.0.5SAXXXP	18	0.5	0.4	1.4	18.4	437
ICIE31CXUAEV019P.0.5SAXXXP	19	0.5	0.4	1.4	18.4	455
ICIE31CXUAEV020P.0.5SAXXXP	20	0.5	0.4	1.5	19.5	483
ICIE31CXUAEV024P.0.5SAXXXP	24	0.5	0.4	1.5	21.8	578
ICIE31CXUAEV001P.75SAXXXP	1	0.75	0.5	1	6.4	52
ICIE31CXUAEV002P.75SAXXXP	2	0.75	0.5	1.1	10	99
ICIE31CXUAEV003P.75SAXXXP	3	0.75	0.5	1.1	10.6	128
ICIE31CXUAEV004P.75SAXXXP	4	0.75	0.5	1.2	11.7	160
ICIE31CXUAEV005P.75SAXXXP	5	0.75	0.5	1.2	12.9	193
ICIE31CXUAEV006P.75SAXXXP	6	0.75	0.5	1.3	14.1	228
ICIE31CXUAEV007P.75SAXXXP	7	0.75	0.5	1.3	14.1	252
ICIE31CXUAEV008P.75SAXXXP	8	0.75	0.5	1.3	16	293
ICIE31CXUAEV010P.75SAXXXP	10	0.75	0.5	1.4	18.2	363
ICIE31CXUAEV012P.75SAXXXP	12	0.75	0.5	1.4	18.9	417
ICIE31CXUAEV014P.75SAXXXP	14	0.75	0.5	1.5	19.9	476
ICIE31CXUAEV016P.75SAXXXP	16	0.75	0.5	1.5	21.1	537

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ICIE31CXUAEV018P.75SAXXXP	18	0.75	0.5	1.6	22.4	599
ICIE31CXUAEV019P.75SAXXXP	19	0.75	0.5	1.6	22.4	623
ICIE31CXUAEV020P.75SAXXXP	20	0.75	0.5	1.6	23.7	664
ICIE31CXUAEV024P.75SAXXXP	24	0.75	0.5	1.7	26.5	794
ICIE31CXUAEV001P1.0SAXXXP	1	1	0.5	1	6.8	59
ICIE31CXUAEV002P1.0SAXXXP	2	1	0.5	1.1	10.7	115
ICIE31CXUAEV003P1.0SAXXXP	3	1	0.5	1.2	11.4	150
ICIE31CXUAEV004P1.0SAXXXP	4	1	0.5	1.2	12.5	189
ICIE31CXUAEV005P1.0SAXXXP	5	1	0.5	1.3	13.8	228
ICIE31CXUAEV006P1.0SAXXXP	6	1	0.5	1.3	15.1	270
ICIE31CXUAEV007P1.0SAXXXP	7	1	0.5	1.3	15.1	299
ICIE31CXUAEV008P1.0SAXXXP	8	1	0.5	1.4	17.2	347
ICIE31CXUAEV010P1.0SAXXXP	10	1	0.5	1.5	19.6	431
ICIE31CXUAEV012P1.0SAXXXP	12	1	0.5	1.5	20.3	498
ICIE31CXUAEV014P1.0SAXXXP	14	1	0.5	1.5	21.5	569
ICIE31CXUAEV016P1.0SAXXXP	16	1	0.5	1.6	22.8	643
ICIE31CXUAEV018P1.0SAXXXP	18	1	0.5	1.6	24.1	718
ICIE31CXUAEV019P1.0SAXXXP	19	1	0.5	1.6	24.1	747
ICIE31CXUAEV020P1.0SAXXXP	20	1	0.5	1.7	25.6	795
ICIE31CXUAEV024P1.0SAXXXP	24	1	0.5	1.8	28.6	953
ICIE31CXUAEV001P1.5SAXXXP	1	1.5	0.6	1	7.8	78
ICIE31CXUAEV002P1.5SAXXXP	2	1.5	0.6	1.2	12.5	153
ICIE31CXUAEV003P1.5SAXXXP	3	1.5	0.6	1.2	13.4	202
ICIE31CXUAEV004P1.5SAXXXP	4	1.5	0.6	1.3	14.8	255
ICIE31CXUAEV005P1.5SAXXXP	5	1.5	0.6	1.3	16.3	310
ICIE31CXUAEV006P1.5SAXXXP	6	1.5	0.6	1.4	18	367
ICIE31CXUAEV007P1.5SAXXXP	7	1.5	0.6	1.4	18	408
ICIE31CXUAEV008P1.5SAXXXP	8	1.5	0.6	1.5	20.4	475
ICIE31CXUAEV010P1.5SAXXXP	10	1.5	0.6	1.6	23.4	592

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ICIE31CXUAEV012P1.5SAXXXP	12	1.5	0.6	1.6	24.2	685
ICIE31CXUAEV014P1.5SAXXXP	14	1.5	0.6	1.7	25.6	784
ICIE31CXUAEV016P1.5SAXXXP	16	1.5	0.6	1.7	27.2	887
ICIE31CXUAEV018P1.5SAXXXP	18	1.5	0.6	1.8	28.8	991
ICIE31CXUAEV019P1.5SAXXXP	19	1.5	0.6	1.8	28.8	1032
ICIE31CXUAEV020P1.5SAXXXP	20	1.5	0.6	1.9	30.6	1099
ICIE31CXUAEV024P1.5SAXXXP	24	1.5	0.6	2	34.2	1319
ICIE31CXUAEV001P2.5SAXXXP	1	2.5	0.6	1.1	8.7	103
ICIE31CXUAEV002P2.5SAXXXP	2	2.5	0.6	1.3	14.2	206
ICIE31CXUAEV003P2.5SAXXXP	3	2.5	0.6	1.3	15.2	275
ICIE31CXUAEV004P2.5SAXXXP	4	2.5	0.6	1.4	16.8	350
ICIE31CXUAEV005P2.5SAXXXP	5	2.5	0.6	1.4	18.6	428
ICIE31CXUAEV006P2.5SAXXXP	6	2.5	0.6	1.5	20.5	508
ICIE31CXUAEV007P2.5SAXXXP	7	2.5	0.6	1.5	20.5	568
ICIE31CXUAEV008P2.5SAXXXP	8	2.5	0.6	1.6	23.3	661
ICIE31CXUAEV010P2.5SAXXXP	10	2.5	0.6	1.7	26.7	825
ICIE31CXUAEV012P2.5SAXXXP	12	2.5	0.6	1.8	27.7	959
ICIE31CXUAEV014P2.5SAXXXP	14	2.5	0.6	1.8	29.3	1101
ICIE31CXUAEV016P2.5SAXXXP	16	2.5	0.6	1.9	31.1	1248
ICIE31CXUAEV018P2.5SAXXXP	18	2.5	0.6	2	33	1397
ICIE31CXUAEV019P2.5SAXXXP	19	2.5	0.6	2	33	1457
ICIE31CXUAEV020P2.5SAXXXP	20	2.5	0.6	2	35	1550
ICIE31CXUAEV024P2.5SAXXXP	24	2.5	0.6	2.2	39.2	1862

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**Electrical Parameter :**

Area of Conductor Sq.mm	Max. DC resistance of conductor at 20°C Plain wires	Max. DC resistance of conductor at 20°C Metal coated wires	Mutual capacitance nF/Km	Inductance mH/Km	Inductance to resistance ratio(L/R) μH/Ω
	Ohm/km	Ohm/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