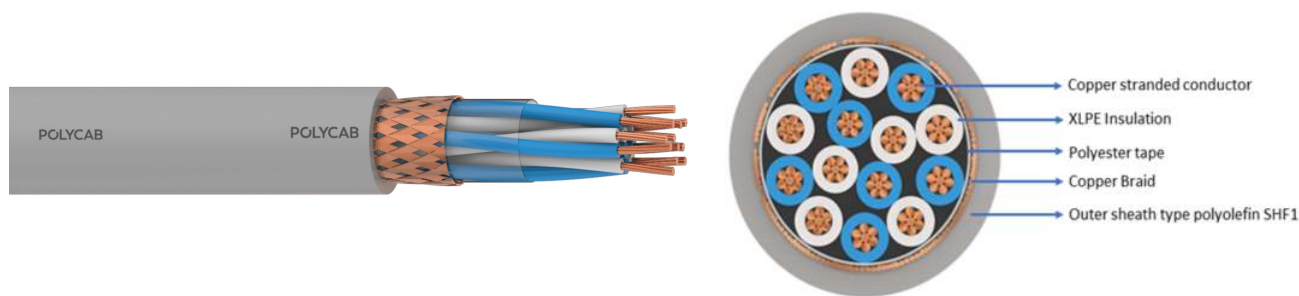


# POLYCAB MARINE INSTRU 300 SINGLE & MP

## Instrumentation cable XLPE Insulated Overall Braided 150/250 (300) V

**POLYCAB**  
IDEAS. CONNECTED.



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB MARINE Single and Multipair overall Braided 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 & assembled together (filler optional), taped
- Copper Braided,
- 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. Braid Wire Dia. (mm)	Nom. Sheath Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE31CXCBEV001P0.5SAXXXP	1	0.5	0.4	0.15	1	5.8	50
BCIE31CXCBEV002P0.5SAXXXP	2	0.5	0.4	0.15	1	8.1	82
BCIE31CXCBEV003P0.5SAXXXP	3	0.5	0.4	0.15	1.1	8.6	99
BCIE31CXCBEV004P0.5SAXXXP	4	0.5	0.4	0.15	1.1	9.4	119
BCIE31CXCBEV005P0.5SAXXXP	5	0.5	0.4	0.15	1.1	10.2	140
BCIE31CXCBEV006P0.5SAXXXP	6	0.5	0.4	0.15	1.2	11.1	162
BCIE31CXCBEV007P0.5SAXXXP	7	0.5	0.4	0.15	1.2	11.1	174
BCIE31CXCBEV008P0.5SAXXXP	8	0.5	0.4	0.2	1.2	12.6	213
BCIE31CXCBEV010P0.5SAXXXP	10	0.5	0.4	0.2	1.3	14.3	259
BCIE31CXCBEV012P0.5SAXXXP	12	0.5	0.4	0.2	1.3	14.8	290
BCIE31CXCBEV014P0.5SAXXXP	14	0.5	0.4	0.2	1.3	15.5	324
BCIE31CXCBEV016P0.5SAXXXP	16	0.5	0.4	0.2	1.3	16.4	360
BCIE31CXCBEV018P0.5SAXXXP	18	0.5	0.4	0.2	1.4	17.3	397
BCIE31CXCBEV019P0.5SAXXXP	19	0.5	0.4	0.2	1.4	17.3	409
BCIE31CXCBEV020P0.5SAXXXP	20	0.5	0.4	0.2	1.4	18.3	436
BCIE31CXCBEV024P0.5SAXXXP	24	0.5	0.4	0.2	1.5	20.3	515
BCIE31CXCBEV001P.75SAXXXP	1	0.75	0.5	0.15	1	6.7	63
BCIE31CXCBEV002P.75SAXXXP	2	0.75	0.5	0.15	1.1	9.6	110
BCIE31CXCBEV003P.75SAXXXP	3	0.75	0.5	0.15	1.1	10.2	134
BCIE31CXCBEV004P.75SAXXXP	4	0.75	0.5	0.15	1.2	11.1	163
BCIE31CXCBEV005P.75SAXXXP	5	0.75	0.5	0.2	1.2	12.3	205
BCIE31CXCBEV006P.75SAXXXP	6	0.75	0.5	0.2	1.2	13.4	238
BCIE31CXCBEV007P.75SAXXXP	7	0.75	0.5	0.2	1.2	13.4	257
BCIE31CXCBEV008P.75SAXXXP	8	0.75	0.5	0.2	1.3	15.1	297
BCIE31CXCBEV010P.75SAXXXP	10	0.75	0.5	0.2	1.4	17.2	363
BCIE31CXCBEV012P.75SAXXXP	12	0.75	0.5	0.2	1.4	17.8	408
BCIE31CXCBEV014P.75SAXXXP	14	0.75	0.5	0.2	1.4	18.7	459

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BCIE31CXCBEV016P.75SAXXXP	16	0.75	0.5	0.2	1.5	19.8	512
BCIE31CXCBEV018P.75SAXXXP	18	0.75	0.5	0.2	1.5	20.9	567
BCIE31CXCBEV019P.75SAXXXP	19	0.75	0.5	0.2	1.5	20.9	586
BCIE31CXCBEV020P.75SAXXXP	20	0.75	0.5	0.2	1.6	22.2	623
BCIE31CXCBEV024P.75SAXXXP	24	0.75	0.5	0.2	1.7	24.7	739
BCIE31CXCBEV001P1.0SAXXXP	1	1	0.5	0.15	1	7	72
BCIE31CXCBEV002P1.0SAXXXP	2	1	0.5	0.15	1.1	10.2	127
BCIE31CXCBEV003P1.0SAXXXP	3	1	0.5	0.15	1.1	10.9	158
BCIE31CXCBEV004P1.0SAXXXP	4	1	0.5	0.2	1.2	12	205
BCIE31CXCBEV005P1.0SAXXXP	5	1	0.5	0.2	1.2	13.2	243
BCIE31CXCBEV006P1.0SAXXXP	6	1	0.5	0.2	1.3	14.4	282
BCIE31CXCBEV007P1.0SAXXXP	7	1	0.5	0.2	1.3	14.4	306
BCIE31CXCBEV008P1.0SAXXXP	8	1	0.5	0.2	1.3	16.2	355
BCIE31CXCBEV010P1.0SAXXXP	10	1	0.5	0.2	1.4	18.5	434
BCIE31CXCBEV012P1.0SAXXXP	12	1	0.5	0.2	1.4	19.1	492
BCIE31CXCBEV014P1.0SAXXXP	14	1	0.5	0.2	1.5	20.1	555
BCIE31CXCBEV016P1.0SAXXXP	16	1	0.5	0.2	1.5	21.3	621
BCIE31CXCBEV018P1.0SAXXXP	18	1	0.5	0.2	1.6	22.5	688
BCIE31CXCBEV019P1.0SAXXXP	19	1	0.5	0.2	1.6	22.5	712
BCIE31CXCBEV020P1.0SAXXXP	20	1	0.5	0.2	1.6	23.9	758
BCIE31CXCBEV024P1.0SAXXXP	24	1	0.5	0.2	1.7	26.6	900
BCIE31CXCBEV001P1.5SAXXXP	1	1.5	0.6	0.15	1	8.1	93
BCIE31CXCBEV002P1.5SAXXXP	2	1.5	0.6	0.2	1.2	12.1	180
BCIE31CXCBEV003P1.5SAXXXP	3	1.5	0.6	0.2	1.2	12.8	225
BCIE31CXCBEV004P1.5SAXXXP	4	1.5	0.6	0.2	1.3	14.1	277
BCIE31CXCBEV005P1.5SAXXXP	5	1.5	0.6	0.2	1.3	15.5	331
BCIE31CXCBEV006P1.5SAXXXP	6	1.5	0.6	0.2	1.4	17	387
BCIE31CXCBEV007P1.5SAXXXP	7	1.5	0.6	0.2	1.4	17	422

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BCIE31CXCBEV008P1.5SAXXXP	8	1.5	0.6	0.2	1.5	19.2	490
BCIE31CXCBEV010P1.5SAXXXP	10	1.5	0.6	0.2	1.6	21.9	602
BCIE31CXCBEV012P1.5SAXXXP	12	1.5	0.6	0.2	1.6	22.7	686
BCIE31CXCBEV014P1.5SAXXXP	14	1.5	0.6	0.2	1.6	23.9	777
BCIE31CXCBEV016P1.5SAXXXP	16	1.5	0.6	0.2	1.7	25.4	872
BCIE31CXCBEV018P1.5SAXXXP	18	1.5	0.6	0.2	1.7	26.8	969
BCIE31CXCBEV019P1.5SAXXXP	19	1.5	0.6	0.2	1.7	26.8	1005
BCIE31CXCBEV020P1.5SAXXXP	20	1.5	0.6	0.2	1.8	28.5	1069
BCIE31CXCBEV024P1.5SAXXXP	24	1.5	0.6	0.2	1.9	31.8	1273
BCIE31CXCBEV001P2.5SAXXXP	1	2.5	0.6	0.15	1.1	9	121
BCIE31CXCBEV002P2.5SAXXXP	2	2.5	0.6	0.2	1.2	13.6	237
BCIE31CXCBEV003P2.5SAXXXP	3	2.5	0.6	0.2	1.3	14.5	303
BCIE31CXCBEV004P2.5SAXXXP	4	2.5	0.6	0.2	1.3	16	378
BCIE31CXCBEV005P2.5SAXXXP	5	2.5	0.6	0.2	1.4	17.6	454
BCIE31CXCBEV006P2.5SAXXXP	6	2.5	0.6	0.2	1.5	19.3	534
BCIE31CXCBEV007P2.5SAXXXP	7	2.5	0.6	0.2	1.5	19.3	588
BCIE31CXCBEV008P2.5SAXXXP	8	2.5	0.6	0.2	1.6	21.9	682
BCIE31CXCBEV010P2.5SAXXXP	10	2.5	0.6	0.2	1.7	25	842
BCIE31CXCBEV012P2.5SAXXXP	12	2.5	0.6	0.2	1.7	25.9	966
BCIE31CXCBEV014P2.5SAXXXP	14	2.5	0.6	0.2	1.8	27.4	1100
BCIE31CXCBEV016P2.5SAXXXP	16	2.5	0.6	0.2	1.8	29	1239
BCIE31CXCBEV018P2.5SAXXXP	18	2.5	0.6	0.2	1.9	30.7	1380
BCIE31CXCBEV019P2.5SAXXXP	19	2.5	0.6	0.2	1.9	30.7	1434

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**(300) V**



**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

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