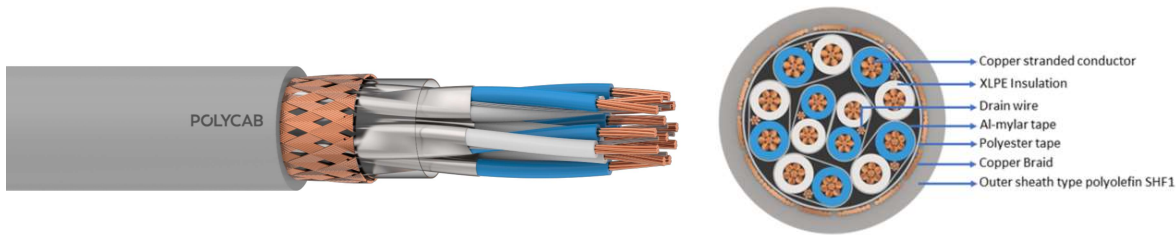


POLYCAB MARINE INSTRU 300. SINGLE & MP

Instrumentation XLPE Individual Shielded & Overall Braided

150/250 (300) V



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB MARINE Single and Multipair Individual Shielded & 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

Test Voltage

1500V AC at (20±5)°C

Bending Radius

Min. 8D; D is cable diameter

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
- Copper Braided,
- Extruded Polyolefin Halogen Free SHF1 Outer Sheath (Halogen Free SHF2 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

Colour: Black. (other colours available on request).

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 ²)	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	5.9	55
BCIE31CXCBEV002P0.5SAXXXP	2	0.5	0.4	0.15	1.1	8.8	99
BCIE31CXCBEV003P0.5SAXXXP	3	0.5	0.4	0.15	1.1	9.3	121
BCIE31CXCBEV004P0.5SAXXXP	4	0.5	0.4	0.15	1.1	10.2	148
BCIE31CXCBEV005P0.5SAXXXP	5	0.5	0.4	0.15	1.2	11.1	175
BCIE31CXCBEV006P0.5SAXXXP	6	0.5	0.4	0.2	1.2	12.2	215
BCIE31CXCBEV007P0.5SAXXXP	7	0.5	0.4	0.2	1.2	12.2	232
BCIE31CXCBEV008P0.5SAXXXP	8	0.5	0.4	0.2	1.2	13.7	268
BCIE31CXCBEV010P0.5SAXXXP	10	0.5	0.4	0.2	1.3	15.6	327
BCIE31CXCBEV012P0.5SAXXXP	12	0.5	0.4	0.2	1.3	16.1	368
BCIE31CXCBEV014P0.5SAXXXP	14	0.5	0.4	0.2	1.4	16.9	415
BCIE31CXCBEV016P0.5SAXXXP	16	0.5	0.4	0.2	1.4	17.9	463
BCIE31CXCBEV018P0.5SAXXXP	18	0.5	0.4	0.2	1.4	18.9	512
BCIE31CXCBEV019P0.5SAXXXP	19	0.5	0.4	0.2	1.4	18.9	529
BCIE31CXCBEV020P0.5SAXXXP	20	0.5	0.4	0.2	1.5	20	563
BCIE31CXCBEV024P0.5SAXXXP	24	0.5	0.4	0.2	1.6	22.3	666
BCIE31CXCBEV001P.75SAXXXP	1	0.75	0.5	0.15	1	6.7	69
BCIE31CXCBEV002P.75SAXXXP	2	0.75	0.5	0.15	1.1	10.3	128
BCIE31CXCBEV003P.75SAXXXP	3	0.75	0.5	0.15	1.1	11	159
BCIE31CXCBEV004P.75SAXXXP	4	0.75	0.5	0.2	1.2	12.2	206
BCIE31CXCBEV005P.75SAXXXP	5	0.75	0.5	0.2	1.2	13.4	244
BCIE31CXCBEV006P.75SAXXXP	6	0.75	0.5	0.2	1.3	14.6	284
BCIE31CXCBEV007P.75SAXXXP	7	0.75	0.5	0.2	1.3	14.6	308
BCIE31CXCBEV008P.75SAXXXP	8	0.75	0.5	0.2	1.4	16.5	357
BCIE31CXCBEV010P.75SAXXXP	10	0.75	0.5	0.2	1.4	18.7	437
BCIE31CXCBEV012P.75SAXXXP	12	0.75	0.5	0.2	1.5	19.4	494
BCIE31CXCBEV014P.75SAXXXP	14	0.75	0.5	0.2	1.5	20.4	557

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BCIE31CXCBEV016P.75SAXXXP	16	0.75	0.5	0.2	1.5	21.6	623
BCIE31CXCBEV018P.75SAXXXP	18	0.75	0.5	0.2	1.6	22.9	691
BCIE31CXCBEV019P.75SAXXXP	19	0.75	0.5	0.2	1.6	22.9	715
BCIE31CXCBEV020P.75SAXXXP	20	0.75	0.5	0.2	1.6	24.2	761
BCIE31CXCBEV024P.75SAXXXP	24	0.75	0.5	0.2	1.7	27	903
BCIE31CXCBEV001P1.0SAXXXP	1	1	0.5	0.15	1	7.1	78
BCIE31CXCBEV002P1.0SAXXXP	2	1	0.5	0.15	1.1	11	146
BCIE31CXCBEV003P1.0SAXXXP	3	1	0.5	0.2	1.2	11.9	195
BCIE31CXCBEV004P1.0SAXXXP	4	1	0.5	0.2	1.2	13	238
BCIE31CXCBEV005P1.0SAXXXP	5	1	0.5	0.2	1.3	14.3	283
BCIE31CXCBEV006P1.0SAXXXP	6	1	0.5	0.2	1.3	15.6	330
BCIE31CXCBEV007P1.0SAXXXP	7	1	0.5	0.2	1.3	15.6	360
BCIE31CXCBEV008P1.0SAXXXP	8	1	0.5	0.2	1.4	17.6	417
BCIE31CXCBEV010P1.0SAXXXP	10	1	0.5	0.2	1.5	20.1	511
BCIE31CXCBEV012P1.0SAXXXP	12	1	0.5	0.2	1.5	20.8	581
BCIE31CXCBEV014P1.0SAXXXP	14	1	0.5	0.2	1.6	22	656
BCIE31CXCBEV016P1.0SAXXXP	16	1	0.5	0.2	1.6	23.2	736
BCIE31CXCBEV018P1.0SAXXXP	18	1	0.5	0.2	1.7	24.6	816
BCIE31CXCBEV019P1.0SAXXXP	19	1	0.5	0.2	1.7	24.6	846
BCIE31CXCBEV020P1.0SAXXXP	20	1	0.5	0.2	1.7	26.1	900
BCIE31CXCBEV024P1.0SAXXXP	24	1	0.5	0.2	1.8	29.1	1070
BCIE31CXCBEV001P1.5SAXXXP	1	1.5	0.6	0.15	1	8.2	99
BCIE31CXCBEV002P1.5SAXXXP	2	1.5	0.6	0.2	1.2	13	203
BCIE31CXCBEV003P1.5SAXXXP	3	1.5	0.6	0.2	1.3	13.9	255
BCIE31CXCBEV004P1.5SAXXXP	4	1.5	0.6	0.2	1.3	15.3	314
BCIE31CXCBEV005P1.5SAXXXP	5	1.5	0.6	0.2	1.4	16.8	376
BCIE31CXCBEV006P1.5SAXXXP	6	1.5	0.6	0.2	1.4	18.4	440
BCIE31CXCBEV007P1.5SAXXXP	7	1.5	0.6	0.2	1.4	18.4	481

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BCIE31CXCBEV008P1.5SAXXXP	8	1.5	0.6	0.2	1.5	20.9	558
BCIE31CXCBEV010P1.5SAXXXP	10	1.5	0.6	0.2	1.6	23.9	687
BCIE31CXCBEV012P1.5SAXXXP	12	1.5	0.6	0.2	1.7	24.7	784
BCIE31CXCBEV014P1.5SAXXXP	14	1.5	0.6	0.2	1.7	26.1	889
BCIE31CXCBEV016P1.5SAXXXP	16	1.5	0.6	0.2	1.8	27.6	998
BCIE31CXCBEV018P1.5SAXXXP	18	1.5	0.6	0.2	1.8	29.3	1110
BCIE31CXCBEV019P1.5SAXXXP	19	1.5	0.6	0.2	1.8	29.3	1151
BCIE31CXCBEV020P1.5SAXXXP	20	1.5	0.6	0.2	1.9	31.1	1225
BCIE31CXCBEV024P1.5SAXXXP	24	1.5	0.6	0.2	2	34.7	1461
BCIE31CXCBEV001P2.5SAXXXP	1	2.5	0.6	0.15	1.1	9.1	128
BCIE31CXCBEV002P2.5SAXXXP	2	2.5	0.6	0.2	1.3	14.7	262
BCIE31CXCBEV003P2.5SAXXXP	3	2.5	0.6	0.2	1.3	15.7	336
BCIE31CXCBEV004P2.5SAXXXP	4	2.5	0.6	0.2	1.4	17.3	418
BCIE31CXCBEV005P2.5SAXXXP	5	2.5	0.6	0.2	1.4	19.1	503
BCIE31CXCBEV006P2.5SAXXXP	6	2.5	0.6	0.2	1.5	21	592
BCIE31CXCBEV007P2.5SAXXXP	7	2.5	0.6	0.2	1.5	21	652
BCIE31CXCBEV008P2.5SAXXXP	8	2.5	0.6	0.2	1.6	23.8	756
BCIE31CXCBEV010P2.5SAXXXP	10	2.5	0.6	0.2	1.7	27.2	935
BCIE31CXCBEV012P2.5SAXXXP	12	2.5	0.6	0.2	1.8	28.2	1073
BCIE31CXCBEV014P2.5SAXXXP	14	2.5	0.6	0.2	1.8	29.8	1222
BCIE31CXCBEV016P2.5SAXXXP	16	2.5	0.6	0.2	1.9	31.6	1376
BCIE31CXCBEV018P2.5SAXXXP	18	2.5	0.6	0.2	2	33.5	1533
BCIE31CXCBEV019P2.5SAXXXP	19	2.5	0.6	0.2	2	33.5	1593
BCIE31CXCBEV020P2.5SAXXXP	20	2.5	0.6	0.2	2.1	35.5	1695
BCIE31CXCBEV024P2.5SAXXXP	24	2.5	0.6	0.2	2.2	39.7	2025

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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