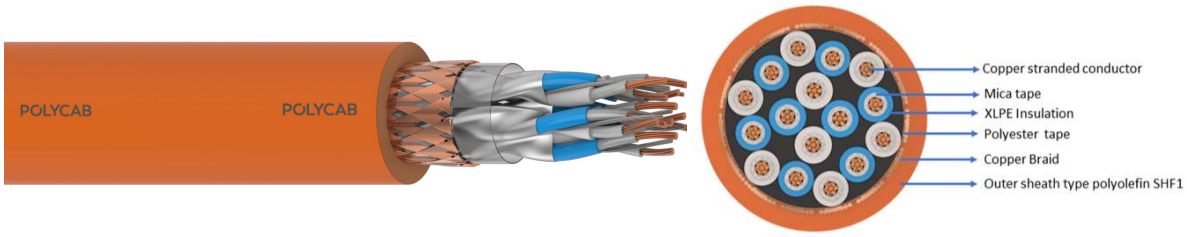
POLYCAB MARINE FS INSTRU 300 SINGLE & MP
Fire Survival Instrumentation XLPE Insulated Overall Braided 150/250 (300) V



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB MARINE Single and Multipair overall Braided 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),
- Mica Glass taped,
- 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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POLYCAB
IDEAS. CONNECTED.

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	7.7	80
BCIE31CXCBEV002P0.5SAXXXP	2	0.5	0.4	0.15	1.2	11.2	143
BCIE31CXCBEV003P0.5SAXXXP	3	0.5	0.4	0.2	1.2	12.1	189
BCIE31CXCBEV004P0.5SAXXXP	4	0.5	0.4	0.2	1.2	13.3	230
BCIE31CXCBEV005P0.5SAXXXP	5	0.5	0.4	0.2	1.3	14.6	273
BCIE31CXCBEV006P0.5SAXXXP	6	0.5	0.4	0.2	1.3	15.9	317
BCIE31CXCBEV007P0.5SAXXXP	7	0.5	0.4	0.2	1.3	15.9	344
BCIE31CXCBEV008P0.5SAXXXP	8	0.5	0.4	0.2	1.4	18	399
BCIE31CXCBEV010P0.5SAXXXP	10	0.5	0.4	0.2	1.5	20.5	489
BCIE31CXCBEV012P0.5SAXXXP	12	0.5	0.4	0.2	1.5	21.2	553
BCIE31CXCBEV014P0.5SAXXXP	14	0.5	0.4	0.2	1.6	22.4	624
BCIE31CXCBEV016P0.5SAXXXP	16	0.5	0.4	0.2	1.6	23.7	698
BCIE31CXCBEV018P0.5SAXXXP	18	0.5	0.4	0.2	1.7	25.1	774
BCIE31CXCBEV019P0.5SAXXXP	19	0.5	0.4	0.2	1.7	25.1	800
BCIE31CXCBEV020P0.5SAXXXP	20	0.5	0.4	0.2	1.7	26.6	853
BCIE31CXCBEV024P0.5SAXXXP	24	0.5	0.4	0.2	1.8	29.7	1014
BCIE31CXCBEV001P.75SAXXXP	1	0.75	0.5	0.15	1.1	8.5	97
BCIE31CXCBEV002P.75SAXXXP	2	0.75	0.5	0.2	1.2	12.8	188
BCIE31CXCBEV003P.75SAXXXP	3	0.75	0.5	0.2	1.2	13.7	234
BCIE31CXCBEV004P.75SAXXXP	4	0.75	0.5	0.2	1.3	15	287
BCIE31CXCBEV005P.75SAXXXP	5	0.75	0.5	0.2	1.4	16.5	342
BCIE31CXCBEV006P.75SAXXXP	6	0.75	0.5	0.2	1.4	18.1	399
BCIE31CXCBEV007P.75SAXXXP	7	0.75	0.5	0.2	1.4	18.1	434
BCIE31CXCBEV008P.75SAXXXP	8	0.75	0.5	0.2	1.5	20.5	504
BCIE31CXCBEV010P.75SAXXXP	10	0.75	0.5	0.2	1.6	23.4	620
BCIE31CXCBEV012P.75SAXXXP	12	0.75	0.5	0.2	1.6	24.3	704
BCIE31CXCBEV014P.75SAXXXP	14	0.75	0.5	0.2	1.7	25.6	797
BCIE31CXCBEV016P.75SAXXXP	16	0.75	0.5	0.2	1.7	27.1	893

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BCIE31CXCBEV018P.75SAXXXP	18	0.75	0.5	0.2	1.8	28.7	992
BCIE31CXCBEV019P.75SAXXXP	19	0.75	0.5	0.2	1.8	28.7	1027
BCIE31CXCBEV020P.75SAXXXP	20	0.75	0.5	0.2	1.9	30.5	1094
BCIE31CXCBEV024P.75SAXXXP	24	0.75	0.5	0.2	2	34	1304
BCIE31CXCBEV001P1.0SAXXXP	1	1	0.5	0.15	1.1	8.9	108
BCIE31CXCBEV002P1.0SAXXXP	2	1	0.5	0.2	1.2	13.4	210
BCIE31CXCBEV003P1.0SAXXXP	3	1	0.5	0.2	1.3	14.3	263
BCIE31CXCBEV004P1.0SAXXXP	4	1	0.5	0.2	1.3	15.8	324
BCIE31CXCBEV005P1.0SAXXXP	5	1	0.5	0.2	1.4	17.4	387
BCIE31CXCBEV006P1.0SAXXXP	6	1	0.5	0.2	1.4	19.1	453
BCIE31CXCBEV007P1.0SAXXXP	7	1	0.5	0.2	1.4	19.1	495
BCIE31CXCBEV008P1.0SAXXXP	8	1	0.5	0.2	1.5	21.6	575
BCIE31CXCBEV010P1.0SAXXXP	10	1	0.5	0.2	1.7	24.7	709
BCIE31CXCBEV012P1.0SAXXXP	12	1	0.5	0.2	1.7	25.6	807
BCIE31CXCBEV014P1.0SAXXXP	14	1	0.5	0.2	1.7	27	915
BCIE31CXCBEV016P1.0SAXXXP	16	1	0.5	0.2	1.8	28.6	1028
BCIE31CXCBEV018P1.0SAXXXP	18	1	0.5	0.2	1.9	30.3	1142
BCIE31CXCBEV019P1.0SAXXXP	19	1	0.5	0.2	1.9	30.3	1184
BCIE31CXCBEV020P1.0SAXXXP	20	1	0.5	0.2	1.9	32.2	1261
BCIE31CXCBEV024P1.0SAXXXP	24	1	0.5	0.2	2.1	36	1504
BCIE31CXCBEV001P1.5SAXXXP	1	1.5	0.6	0.15	1.1	10	133
BCIE31CXCBEV002P1.5SAXXXP	2	1.5	0.6	0.2	1.3	15.2	260
BCIE31CXCBEV003P1.5SAXXXP	3	1.5	0.6	0.2	1.3	16.2	330
BCIE31CXCBEV004P1.5SAXXXP	4	1.5	0.6	0.2	1.4	17.9	410
BCIE31CXCBEV005P1.5SAXXXP	5	1.5	0.6	0.2	1.5	19.7	492
BCIE31CXCBEV006P1.5SAXXXP	6	1.5	0.6	0.2	1.5	21.7	578
BCIE31CXCBEV007P1.5SAXXXP	7	1.5	0.6	0.2	1.5	21.7	634
BCIE31CXCBEV008P1.5SAXXXP	8	1.5	0.6	0.2	1.7	24.6	737
BCIE31CXCBEV010P1.5SAXXXP	10	1.5	0.6	0.2	1.8	28.1	911

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BCIE31CXCBEV012P1.5SAXXXP	12	1.5	0.6	0.2	1.8	29.2	1042
BCIE31CXCBEV014P1.5SAXXXP	14	1.5	0.6	0.2	1.9	30.8	1184
BCIE31CXCBEV016P1.5SAXXXP	16	1.5	0.6	0.2	2	32.7	1332
BCIE31CXCBEV018P1.5SAXXXP	18	1.5	0.6	0.2	2	34.6	1483
BCIE31CXCBEV019P1.5SAXXXP	19	1.5	0.6	0.2	2	34.6	1539
BCIE31CXCBEV020P1.5SAXXXP	20	1.5	0.6	0.2	2.1	36.8	1640
BCIE31CXCBEV024P1.5SAXXXP	24	1.5	0.6	0.2	2.3	41.1	1959
BCIE31CXCBEV001P2.5SAXXXP	1	2.5	0.6	0.15	1.1	10.9	165
BCIE31CXCBEV002P2.5SAXXXP	2	2.5	0.6	0.2	1.4	16.7	326
BCIE31CXCBEV003P2.5SAXXXP	3	2.5	0.6	0.2	1.4	17.9	420
BCIE31CXCBEV004P2.5SAXXXP	4	2.5	0.6	0.2	1.5	19.8	526
BCIE31CXCBEV005P2.5SAXXXP	5	2.5	0.6	0.2	1.5	21.8	635
BCIE31CXCBEV006P2.5SAXXXP	6	2.5	0.6	0.2	1.6	24	748
BCIE31CXCBEV007P2.5SAXXXP	7	2.5	0.6	0.2	1.6	24	826
BCIE31CXCBEV008P2.5SAXXXP	8	2.5	0.6	0.2	1.8	27.3	960
BCIE31CXCBEV010P2.5SAXXXP	10	2.5	0.6	0.2	1.9	31.2	1190
BCIE31CXCBEV012P2.5SAXXXP	12	2.5	0.6	0.2	1.9	32.4	1369
BCIE31CXCBEV014P2.5SAXXXP	14	2.5	0.6	0.2	2	34.2	1561
BCIE31CXCBEV016P2.5SAXXXP	16	2.5	0.6	0.2	2.1	36.3	1761
BCIE31CXCBEV018P2.5SAXXXP	18	2.5	0.6	0.2	2.2	38.5	1964
BCIE31CXCBEV019P2.5SAXXXP	19	2.5	0.6	0.2	2.2	38.5	2042
BCIE31CXCBEV020P2.5SAXXXP	20	2.5	0.6	0.2	2.3	40.9	2173
BCIE31CXCBEV024P2.5SAXXXP	24	2.5	0.6	0.2	2.4	45.8	2600

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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