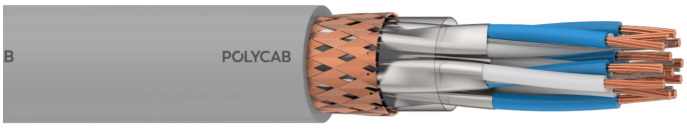
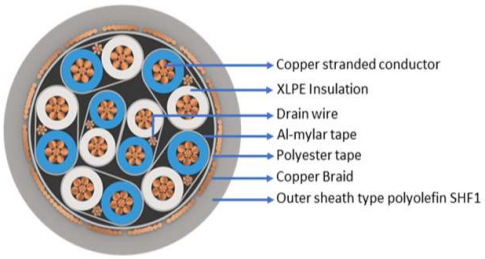
POLYCAB MARINE INSTRU 300. SINGLE & MP.
FS Instrumentation XLPE Individual Shielded & Overall Braided 150/250 (300) V





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB MARINE Single and Multipair Individual Shielded & overall Braided 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,
- 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), 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.

POLYCAB MARINE INSTRU 300. SINGLE & MP.
FS Instrumentation XLPE Individual Shielded & Overall Braided 150/250 (300) V

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	86
BCIE31CXCBEV002P0.5SAXXXP	2	0.5	0.4	0.2	1.2	12.3	175
BCIE31CXCBEV003P0.5SAXXXP	3	0.5	0.4	0.2	1.2	13.1	217
BCIE31CXCBEV004P0.5SAXXXP	4	0.5	0.4	0.2	1.3	14.4	265
BCIE31CXCBEV005P0.5SAXXXP	5	0.5	0.4	0.2	1.3	15.8	316
BCIE31CXCBEV006P0.5SAXXXP	6	0.5	0.4	0.2	1.4	17.3	368
BCIE31CXCBEV007P0.5SAXXXP	7	0.5	0.4	0.2	1.4	17.3	400
BCIE31CXCBEV008P0.5SAXXXP	8	0.5	0.4	0.2	1.5	19.6	465
BCIE31CXCBEV010P0.5SAXXXP	10	0.5	0.4	0.2	1.6	22.3	571
BCIE31CXCBEV012P0.5SAXXXP	12	0.5	0.4	0.2	1.6	23.1	647
BCIE31CXCBEV014P0.5SAXXXP	14	0.5	0.4	0.2	1.6	24.4	731
BCIE31CXCBEV016P0.5SAXXXP	16	0.5	0.4	0.2	1.7	25.8	820
BCIE31CXCBEV018P0.5SAXXXP	18	0.5	0.4	0.2	1.8	27.4	909
BCIE31CXCBEV019P0.5SAXXXP	19	0.5	0.4	0.2	1.8	27.4	941
BCIE31CXCBEV020P0.5SAXXXP	20	0.5	0.4	0.2	1.8	29	1003
BCIE31CXCBEV024P0.5SAXXXP	24	0.5	0.4	0.2	1.9	32.4	1194
BCIE31CXCBEV001P.75SAXXXP	1	0.75	0.5	0.15	1.1	8.6	103
BCIE31CXCBEV002P.75SAXXXP	2	0.75	0.5	0.2	1.3	13.8	212
BCIE31CXCBEV003P.75SAXXXP	3	0.75	0.5	0.2	1.3	14.8	265
BCIE31CXCBEV004P.75SAXXXP	4	0.75	0.5	0.2	1.3	16.3	325
BCIE31CXCBEV005P.75SAXXXP	5	0.75	0.5	0.2	1.4	17.9	389
BCIE31CXCBEV006P.75SAXXXP	6	0.75	0.5	0.2	1.5	19.7	455
BCIE31CXCBEV007P.75SAXXXP	7	0.75	0.5	0.2	1.5	19.7	495
BCIE31CXCBEV008P.75SAXXXP	8	0.75	0.5	0.2	1.6	22.3	576
BCIE31CXCBEV010P.75SAXXXP	10	0.75	0.5	0.2	1.7	25.5	709
BCIE31CXCBEV012P.75SAXXXP	12	0.75	0.5	0.2	1.7	26.4	806
BCIE31CXCBEV014P.75SAXXXP	14	0.75	0.5	0.2	1.8	27.9	913

POLYCAB MARINE INSTRU 300. SINGLE & MP.
FS Instrumentation XLPE Individual Shielded & Overall Braided 150/250 (300) V

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)
BCIE31CXCBEV016P.75SAXXXP	16	0.75	0.5	0.2	1.8	29.6	1025
BCIE31CXCBEV018P.75SAXXXP	18	0.75	0.5	0.2	1.9	31.3	1139
BCIE31CXCBEV019P.75SAXXXP	19	0.75	0.5	0.2	1.9	31.3	1179
BCIE31CXCBEV020P.75SAXXXP	20	0.75	0.5	0.2	2	33.2	1257
BCIE31CXCBEV024P.75SAXXXP	24	0.75	0.5	0.2	2.1	37.1	1499
BCIE31CXCBEV001P1.0SAXXXP	1	1	0.5	0.15	1.1	9	114
BCIE31CXCBEV002P1.0SAXXXP	2	1	0.5	0.2	1.3	14.5	235
BCIE31CXCBEV003P1.0SAXXXP	3	1	0.5	0.2	1.3	15.5	295
BCIE31CXCBEV004P1.0SAXXXP	4	1	0.5	0.2	1.4	17.1	364
BCIE31CXCBEV005P1.0SAXXXP	5	1	0.5	0.2	1.4	18.9	436
BCIE31CXCBEV006P1.0SAXXXP	6	1	0.5	0.2	1.5	20.7	511
BCIE31CXCBEV007P1.0SAXXXP	7	1	0.5	0.2	1.5	20.7	558
BCIE31CXCBEV008P1.0SAXXXP	8	1	0.5	0.2	1.6	23.5	649
BCIE31CXCBEV010P1.0SAXXXP	10	1	0.5	0.2	1.7	26.9	801
BCIE31CXCBEV012P1.0SAXXXP	12	1	0.5	0.2	1.8	27.9	913
BCIE31CXCBEV014P1.0SAXXXP	14	1	0.5	0.2	1.8	29.4	1035
BCIE31CXCBEV016P1.0SAXXXP	16	1	0.5	0.2	1.9	31.2	1163
BCIE31CXCBEV018P1.0SAXXXP	18	1	0.5	0.2	2	33	1294
BCIE31CXCBEV019P1.0SAXXXP	19	1	0.5	0.2	2	33	1341
BCIE31CXCBEV020P1.0SAXXXP	20	1	0.5	0.2	2	35.1	1429
BCIE31CXCBEV024P1.0SAXXXP	24	1	0.5	0.2	2.2	39.2	1706
BCIE31CXCBEV001P1.5SAXXXP	1	1.5	0.6	0.15	1.1	10.1	139
BCIE31CXCBEV002P1.5SAXXXP	2	1.5	0.6	0.2	1.3	16.4	288
BCIE31CXCBEV003P1.5SAXXXP	3	1.5	0.6	0.2	1.4	17.5	366
BCIE31CXCBEV004P1.5SAXXXP	4	1.5	0.6	0.2	1.5	19.4	454
BCIE31CXCBEV005P1.5SAXXXP	5	1.5	0.6	0.2	1.5	21.4	546
BCIE31CXCBEV006P1.5SAXXXP	6	1.5	0.6	0.2	1.6	23.5	642
BCIE31CXCBEV007P1.5SAXXXP	7	1.5	0.6	0.2	1.6	23.5	703

POLYCAB MARINE INSTRU 300. SINGLE & MP.
FS Instrumentation XLPE Individual Shielded & Overall Braided 150/250 (300) V

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)
BCIE31CXCBEV008P1.5SAXXXP	8	1.5	0.6	0.2	1.7	26.7	819
BCIE31CXCBEV010P1.5SAXXXP	10	1.5	0.6	0.2	1.9	30.6	1013
BCIE31CXCBEV012P1.5SAXXXP	12	1.5	0.6	0.2	1.9	31.7	1158
BCIE31CXCBEV014P1.5SAXXXP	14	1.5	0.6	0.2	2	33.5	1316
BCIE31CXCBEV016P1.5SAXXXP	16	1.5	0.6	0.2	2.1	35.6	1482
BCIE31CXCBEV018P1.5SAXXXP	18	1.5	0.6	0.2	2.1	37.7	1650
BCIE31CXCBEV019P1.5SAXXXP	19	1.5	0.6	0.2	2.1	37.7	1711
BCIE31CXCBEV020P1.5SAXXXP	20	1.5	0.6	0.2	2.2	40.1	1824
BCIE31CXCBEV024P1.5SAXXXP	24	1.5	0.6	0.2	2.4	44.8	2181
BCIE31CXCBEV001P2.5SAXXXP	1	2.5	0.6	0.15	1.1	11	171
BCIE31CXCBEV002P2.5SAXXXP	2	2.5	0.6	0.2	1.4	18.1	357
BCIE31CXCBEV003P2.5SAXXXP	3	2.5	0.6	0.2	1.5	19.4	459
BCIE31CXCBEV004P2.5SAXXXP	4	2.5	0.6	0.2	1.5	21.4	574
BCIE31CXCBEV005P2.5SAXXXP	5	2.5	0.6	0.2	1.6	23.6	694
BCIE31CXCBEV006P2.5SAXXXP	6	2.5	0.6	0.2	1.7	26	818
BCIE31CXCBEV007P2.5SAXXXP	7	2.5	0.6	0.2	1.7	26	901
BCIE31CXCBEV008P2.5SAXXXP	8	2.5	0.6	0.2	1.8	29.6	1049
BCIE31CXCBEV010P2.5SAXXXP	10	2.5	0.6	0.2	2	34	1302
BCIE31CXCBEV012P2.5SAXXXP	12	2.5	0.6	0.2	2	35.2	1495
BCIE31CXCBEV014P2.5SAXXXP	14	2.5	0.6	0.2	2.1	37.2	1705
BCIE31CXCBEV016P2.5SAXXXP	16	2.5	0.6	0.2	2.2	39.5	1923
BCIE31CXCBEV018P2.5SAXXXP	18	2.5	0.6	0.2	2.3	41.9	2144
BCIE31CXCBEV019P2.5SAXXXP	19	2.5	0.6	0.2	2.3	41.9	2228
BCIE31CXCBEV020P2.5SAXXXP	20	2.5	0.6	0.2	2.4	44.5	2374
BCIE31CXCBEV024P2.5SAXXXP	24	2.5	0.6	0.2	2.6	49.9	2842

POLYCAB MARINE INSTRU 300. SINGLE & MP.
FS Instrumentation XLPE Individual Shielded & Overall Braided 150/250 (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