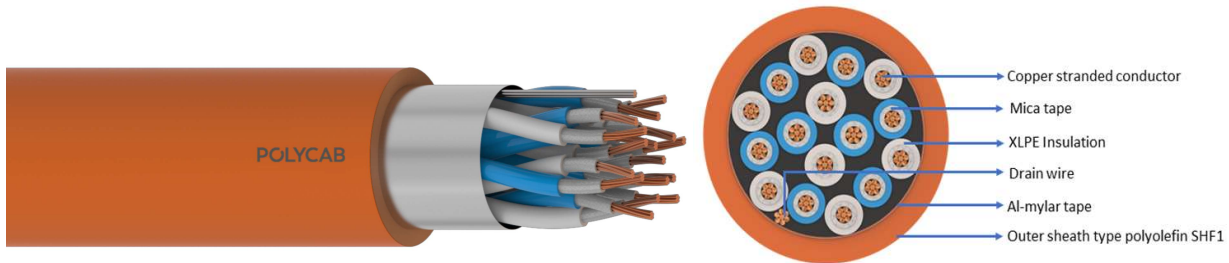


POLYCAB MARINE INSTRU. 300 SINGLE & MP

Fire Survival Instrumentation XLPE Overall Shielded 150/250 (300) V



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB MARINE Single and Multipair overall shielded 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

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

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),
- Overall Shielded with Al.mylar tape along with drain wire,
- 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

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 ²)	Nom. Insulation Thickness (mm)	Nom. Sheath Thickness(mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
ICIE31CXUAEV001P0.5SAXXXP	1	0.5	0.4	1	7.3	60
ICIE31CXUAEV002P0.5SAXXXP	2	0.5	0.4	1.1	10.8	111
ICIE31CXUAEV003P0.5SAXXXP	3	0.5	0.4	1.2	11.6	143
ICIE31CXUAEV004P0.5SAXXXP	4	0.5	0.4	1.2	12.8	179
ICIE31CXUAEV005P0.5SAXXXP	5	0.5	0.4	1.3	14	216
ICIE31CXUAEV006P0.5SAXXXP	6	0.5	0.4	1.3	15.4	255
ICIE31CXUAEV007P0.5SAXXXP	7	0.5	0.4	1.3	15.4	282
ICIE31CXUAEV008P0.5SAXXXP	8	0.5	0.4	1.4	17.5	328
ICIE31CXUAEV010P0.5SAXXXP	10	0.5	0.4	1.5	20	407
ICIE31CXUAEV012P0.5SAXXXP	12	0.5	0.4	1.5	20.7	468
ICIE31CXUAEV014P0.5SAXXXP	14	0.5	0.4	1.6	21.9	534
ICIE31CXUAEV016P0.5SAXXXP	16	0.5	0.4	1.6	23.2	603
ICIE31CXUAEV018P0.5SAXXXP	18	0.5	0.4	1.7	24.6	673
ICIE31CXUAEV019P0.5SAXXXP	19	0.5	0.4	1.7	24.6	699
ICIE31CXUAEV020P0.5SAXXXP	20	0.5	0.4	1.7	26.1	745
ICIE31CXUAEV024P0.5SAXXXP	24	0.5	0.4	1.8	29.1	893
ICIE31CXUAEV001P.75SAXXXP	1	0.75	0.5	1	8.1	74
ICIE31CXUAEV002P.75SAXXXP	2	0.75	0.5	1.2	12.3	139
ICIE31CXUAEV003P.75SAXXXP	3	0.75	0.5	1.2	13.1	181
ICIE31CXUAEV004P.75SAXXXP	4	0.75	0.5	1.3	14.5	228
ICIE31CXUAEV005P.75SAXXXP	5	0.75	0.5	1.3	16	277
ICIE31CXUAEV006P.75SAXXXP	6	0.75	0.5	1.4	17.6	328
ICIE31CXUAEV007P.75SAXXXP	7	0.75	0.5	1.4	17.6	363
ICIE31CXUAEV008P.75SAXXXP	8	0.75	0.5	1.5	20	423
ICIE31CXUAEV010P.75SAXXXP	10	0.75	0.5	1.6	22.9	526
ICIE31CXUAEV012P.75SAXXXP	12	0.75	0.5	1.6	23.8	607
ICIE31CXUAEV014P.75SAXXXP	14	0.75	0.5	1.7	25.1	693

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ICIE31CXUAEV016P.75SAXXXP	16	0.75	0.5	1.7	26.6	784
ICIE31CXUAEV018P.75SAXXXP	18	0.75	0.5	1.8	28.2	875
ICIE31CXUAEV019P.75SAXXXP	19	0.75	0.5	1.8	28.2	910
ICIE31CXUAEV020P.75SAXXXP	20	0.75	0.5	1.9	30	970
ICIE31CXUAEV024P.75SAXXXP	24	0.75	0.5	2	33.5	1165
ICIE31CXUAEV001P1.0SAXXXP	1	1	0.5	1.1	8.5	83
ICIE31CXUAEV002P1.0SAXXXP	2	1	0.5	1.2	12.9	158
ICIE31CXUAEV003P1.0SAXXXP	3	1	0.5	1.3	13.8	207
ICIE31CXUAEV004P1.0SAXXXP	4	1	0.5	1.3	15.3	262
ICIE31CXUAEV005P1.0SAXXXP	5	1	0.5	1.4	16.9	319
ICIE31CXUAEV006P1.0SAXXXP	6	1	0.5	1.4	18.6	378
ICIE31CXUAEV007P1.0SAXXXP	7	1	0.5	1.4	18.6	419
ICIE31CXUAEV008P1.0SAXXXP	8	1	0.5	1.5	21.1	489
ICIE31CXUAEV010P1.0SAXXXP	10	1	0.5	1.6	24.2	609
ICIE31CXUAEV012P1.0SAXXXP	12	1	0.5	1.7	25.1	704
ICIE31CXUAEV014P1.0SAXXXP	14	1	0.5	1.7	26.5	806
ICIE31CXUAEV016P1.0SAXXXP	16	1	0.5	1.8	28.1	911
ICIE31CXUAEV018P1.0SAXXXP	18	1	0.5	1.8	29.8	1019
ICIE31CXUAEV019P1.0SAXXXP	19	1	0.5	1.8	29.8	1060
ICIE31CXUAEV020P1.0SAXXXP	20	1	0.5	1.9	31.7	1130
ICIE31CXUAEV024P1.0SAXXXP	24	1	0.5	2.1	35.4	1356
ICIE31CXUAEV001P1.5SAXXXP	1	1.5	0.6	1.1	9.6	105
ICIE31CXUAEV002P1.5SAXXXP	2	1.5	0.6	1.3	14.7	202
ICIE31CXUAEV003P1.5SAXXXP	3	1.5	0.6	1.3	15.7	267
ICIE31CXUAEV004P1.5SAXXXP	4	1.5	0.6	1.4	17.4	339
ICIE31CXUAEV005P1.5SAXXXP	5	1.5	0.6	1.5	19.2	414
ICIE31CXUAEV006P1.5SAXXXP	6	1.5	0.6	1.5	21.1	492
ICIE31CXUAEV007P1.5SAXXXP	7	1.5	0.6	1.5	21.1	548

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Product Code	No. of Pairs	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Sheath Thickness(mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
ICIE31CXUAEV008P1.5SAXXXP	8	1.5	0.6	1.6	24.1	638
ICIE31CXUAEV010P1.5SAXXXP	10	1.5	0.6	1.8	27.6	797
ICIE31CXUAEV012P1.5SAXXXP	12	1.5	0.6	1.8	28.7	923
ICIE31CXUAEV014P1.5SAXXXP	14	1.5	0.6	1.9	30.3	1059
ICIE31CXUAEV016P1.5SAXXXP	16	1.5	0.6	1.9	32.2	1199
ICIE31CXUAEV018P1.5SAXXXP	18	1.5	0.6	2	34.1	1341
ICIE31CXUAEV019P1.5SAXXXP	19	1.5	0.6	2	34.1	1397
ICIE31CXUAEV020P1.5SAXXXP	20	1.5	0.6	2.1	36.3	1489
ICIE31CXUAEV024P1.5SAXXXP	24	1.5	0.6	2.2	40.6	1789
ICIE31CXUAEV001P2.5SAXXXP	1	2.5	0.6	1.1	10.5	134
ICIE31CXUAEV002P2.5SAXXXP	2	2.5	0.6	1.3	16.2	260
ICIE31CXUAEV003P2.5SAXXXP	3	2.5	0.6	1.4	17.4	350
ICIE31CXUAEV004P2.5SAXXXP	4	2.5	0.6	1.5	19.3	447
ICIE31CXUAEV005P2.5SAXXXP	5	2.5	0.6	1.5	21.3	548
ICIE31CXUAEV006P2.5SAXXXP	6	2.5	0.6	1.6	23.5	652
ICIE31CXUAEV007P2.5SAXXXP	7	2.5	0.6	1.6	23.5	730
ICIE31CXUAEV008P2.5SAXXXP	8	2.5	0.6	1.7	26.7	850
ICIE31CXUAEV010P2.5SAXXXP	10	2.5	0.6	1.9	30.7	1063
ICIE31CXUAEV012P2.5SAXXXP	12	2.5	0.6	1.9	31.9	1236
ICIE31CXUAEV014P2.5SAXXXP	14	2.5	0.6	2	33.7	1421
ICIE31CXUAEV016P2.5SAXXXP	16	2.5	0.6	2.1	35.8	1612
ICIE31CXUAEV018P2.5SAXXXP	18	2.5	0.6	2.1	38	1805
ICIE31CXUAEV019P2.5SAXXXP	19	2.5	0.6	2.1	38	1883
ICIE31CXUAEV020P2.5SAXXXP	20	2.5	0.6	2.2	40.4	2005
ICIE31CXUAEV024P2.5SAXXXP	24	2.5	0.6	2.4	45.3	2411

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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

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