



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB MARINE Single and Multipair overall shielded 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),
- 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

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.

POLY CAB MARINE INSTRU 300 SINGLE & MP. Instrumentation XLPE Overall Shielded 150/250 (300) V

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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	5.5	36
ICIE31CXUAEV002P0.5SAXXXP	2	0.5	0.4	1	7.7	60
ICIE31CXUAEV003P0.5SAXXXP	3	0.5	0.4	1	8.2	76
ICIE31CXUAEV004P0.5SAXXXP	4	0.5	0.4	1.1	9	93
ICIE31CXUAEV005P0.5SAXXXP	5	0.5	0.4	1.1	9.8	112
ICIE31CXUAEV006P0.5SAXXXP	6	0.5	0.4	1.1	10.7	130
ICIE31CXUAEV007P0.5SAXXXP	7	0.5	0.4	1.1	10.7	143
ICIE31CXUAEV008P0.5SAXXXP	8	0.5	0.4	1.2	12.1	165
ICIE31CXUAEV010P0.5SAXXXP	10	0.5	0.4	1.3	13.8	204
ICIE31CXUAEV012P0.5SAXXXP	12	0.5	0.4	1.3	14.2	232
ICIE31CXUAEV014P0.5SAXXXP	14	0.5	0.4	1.3	15	264
ICIE31CXUAEV016P0.5SAXXXP	16	0.5	0.4	1.3	15.9	296
ICIE31CXUAEV018P0.5SAXXXP	18	0.5	0.4	1.4	16.8	329
ICIE31CXUAEV019P0.5SAXXXP	19	0.5	0.4	1.4	16.8	341
ICIE31CXUAEV020P0.5SAXXXP	20	0.5	0.4	1.4	17.8	364
ICIE31CXUAEV024P0.5SAXXXP	24	0.5	0.4	1.5	19.8	434
ICIE31CXUAEV001P.75SAXXXP	1	0.75	0.5	1	6.3	46
ICIE31CXUAEV002P.75SAXXXP	2	0.75	0.5	1.1	9.2	83
ICIE31CXUAEV003P.75SAXXXP	3	0.75	0.5	1.1	9.8	106
ICIE31CXUAEV004P.75SAXXXP	4	0.75	0.5	1.1	10.7	132
ICIE31CXUAEV005P.75SAXXXP	5	0.75	0.5	1.2	11.8	159
ICIE31CXUAEV006P.75SAXXXP	6	0.75	0.5	1.2	12.9	187
ICIE31CXUAEV007P.75SAXXXP	7	0.75	0.5	1.2	12.9	205
ICIE31CXUAEV008P.75SAXXXP	8	0.75	0.5	1.3	14.6	238
ICIE31CXUAEV010P.75SAXXXP	10	0.75	0.5	1.4	16.7	295
ICIE31CXUAEV012P.75SAXXXP	12	0.75	0.5	1.4	17.3	338
ICIE31CXUAEV014P.75SAXXXP	14	0.75	0.5	1.4	18.2	385
ICIE31CXUAEV016P.75SAXXXP	16	0.75	0.5	1.5	19.3	434

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ICIE31CXUAEV018P.75SAXXXP	18	0.75	0.5	1.5	20.4	483
ICIE31CXUAEV019P.75SAXXXP	19	0.75	0.5	1.5	20.4	502
ICIE31CXUAEV020P.75SAXXXP	20	0.75	0.5	1.5	21.7	535
ICIE31CXUAEV024P.75SAXXXP	24	0.75	0.5	1.6	24.2	639
ICIE31CXUAEV001P1.0SAXXXP	1	1	0.5	1	6.7	54
ICIE31CXUAEV002P1.0SAXXXP	2	1	0.5	1.1	9.8	98
ICIE31CXUAEV003P1.0SAXXXP	3	1	0.5	1.1	10.5	127
ICIE31CXUAEV004P1.0SAXXXP	4	1	0.5	1.2	11.5	159
ICIE31CXUAEV005P1.0SAXXXP	5	1	0.5	1.2	12.7	192
ICIE31CXUAEV006P1.0SAXXXP	6	1	0.5	1.3	13.9	227
ICIE31CXUAEV007P1.0SAXXXP	7	1	0.5	1.3	13.9	251
ICIE31CXUAEV008P1.0SAXXXP	8	1	0.5	1.3	15.7	291
ICIE31CXUAEV010P1.0SAXXXP	10	1	0.5	1.4	18	361
ICIE31CXUAEV012P1.0SAXXXP	12	1	0.5	1.4	18.6	416
ICIE31CXUAEV014P1.0SAXXXP	14	1	0.5	1.5	19.6	475
ICIE31CXUAEV016P1.0SAXXXP	16	1	0.5	1.5	20.8	536
ICIE31CXUAEV018P1.0SAXXXP	18	1	0.5	1.6	22	598
ICIE31CXUAEV019P1.0SAXXXP	19	1	0.5	1.6	22	622
ICIE31CXUAEV020P1.0SAXXXP	20	1	0.5	1.6	23.4	662
ICIE31CXUAEV024P1.0SAXXXP	24	1	0.5	1.7	26.1	792
ICIE31CXUAEV001P1.5SAXXXP	1	1.5	0.6	1	7.7	71
ICIE31CXUAEV002P1.5SAXXXP	2	1.5	0.6	1.2	11.5	135
ICIE31CXUAEV003P1.5SAXXXP	3	1.5	0.6	1.2	12.3	176
ICIE31CXUAEV004P1.5SAXXXP	4	1.5	0.6	1.2	13.6	223
ICIE31CXUAEV005P1.5SAXXXP	5	1.5	0.6	1.3	15	271
ICIE31CXUAEV006P1.5SAXXXP	6	1.5	0.6	1.4	16.5	320
ICIE31CXUAEV007P1.5SAXXXP	7	1.5	0.6	1.4	16.5	356
ICIE31CXUAEV008P1.5SAXXXP	8	1.5	0.6	1.4	18.7	414
ICIE31CXUAEV010P1.5SAXXXP	10	1.5	0.6	1.5	21.4	515

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ICIE31CXUAEV012P1.5SAXXXP	12	1.5	0.6	1.6	22.2	595
ICIE31CXUAEV014P1.5SAXXXP	14	1.5	0.6	1.6	23.4	681
ICIE31CXUAEV016P1.5SAXXXP	16	1.5	0.6	1.7	24.8	770
ICIE31CXUAEV018P1.5SAXXXP	18	1.5	0.6	1.7	26.3	860
ICIE31CXUAEV019P1.5SAXXXP	19	1.5	0.6	1.7	26.3	896
ICIE31CXUAEV020P1.5SAXXXP	20	1.5	0.6	1.8	28	954
ICIE31CXUAEV024P1.5SAXXXP	24	1.5	0.6	1.9	31.3	1144
ICIE31CXUAEV001P2.5SAXXXP	1	2.5	0.6	1.1	8.6	97
ICIE31CXUAEV002P2.5SAXXXP	2	2.5	0.6	1.2	13.1	185
ICIE31CXUAEV003P2.5SAXXXP	3	2.5	0.6	1.3	14	247
ICIE31CXUAEV004P2.5SAXXXP	4	2.5	0.6	1.3	15.5	315
ICIE31CXUAEV005P2.5SAXXXP	5	2.5	0.6	1.4	17.1	385
ICIE31CXUAEV006P2.5SAXXXP	6	2.5	0.6	1.4	18.8	457
ICIE31CXUAEV007P2.5SAXXXP	7	2.5	0.6	1.4	18.8	511
ICIE31CXUAEV008P2.5SAXXXP	8	2.5	0.6	1.5	21.4	594
ICIE31CXUAEV010P2.5SAXXXP	10	2.5	0.6	1.6	24.5	741
ICIE31CXUAEV012P2.5SAXXXP	12	2.5	0.6	1.7	25.4	862
ICIE31CXUAEV014P2.5SAXXXP	14	2.5	0.6	1.7	26.8	989
ICIE31CXUAEV016P2.5SAXXXP	16	2.5	0.6	1.8	28.5	1121
ICIE31CXUAEV018P2.5SAXXXP	18	2.5	0.6	1.9	30.2	1255
ICIE31CXUAEV019P2.5SAXXXP	19	2.5	0.6	1.9	30.2	1309
ICIE31CXUAEV020P2.5SAXXXP	20	2.5	0.6	1.9	32.1	1392
ICIE31CXUAEV024P2.5SAXXXP	24	2.5	0.6	2.1	35.9	1671

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Electrical Parameter:

Area of Conductor Sq.mm	Max. DC resistance of conductor at 20°C Plain wires	Max. DC resistance of conductor at 20°C Metal coated wires	Mutual capacitance nF/Km	Inductance mH/Km	Inductance to resistance ratio(L/R)
	Ohm/km	Ohm/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