

Polycab offers a comprehensive range of Marine cables in compliance with IEC specification & standard



These are low voltage (0.6/1.0 kV & 1.8/3.0 kV), medium voltage (6.0 kV to 20 kV) & instrumentation cables (150/250V) in fire retardant and fire resistant combinations confirming to the construction and performance as per IEC 60092-353, 354, 376, 350, 352, 360. These cables are suitable to use in fixed installation in power, lighting, control, instrumentation and communication circuits on sea/marine vessels and offshore platforms where peak / transient voltages occurs during motor operations / variable frequency drive applications

These are single / multi core/pair cables with maximum conductor operating temperature of 90°C and maximum conductor short circuit temperature 250°C, produce low level of smoke and corrosive gases when exposed to fire than compared cables manufactured in accordance with IEC 60092-353, 354, 376.

Conductor: High conductivity annealed plain stranded copper conductor produced in-house from state-of-the art Contirod line.

Insulation: In-house developed high insulation resistance cross-linked polyethylene thermoset insulation or Ethylene propylene rubber.

Individual Shield: Where required Pairs are shielded with Aluminium. Mylar Tape along with drain wire

Laying up of Multi Cores / Pairs

Inner Covering/ Inner Sheath/ Protective Tape: A protective barrier created between insulation and armour/braid/screen by extruded layer of polymeric material or Protective tape.

Collective Shield: Where required laidup Pairs are shielded with Aluminium. Mylar Tape along with drain wire

Metallic Braid / Screen: Copper Braiding / Screening is provided to allow the cable to withstand mechanical stresses to which it is exposed.

Sheath: In-house developed thermosetting polyolefin compound type SHF-1 / SHF-2 having free from halogen, low emission of smoke and corrosive gases when exposed to fire.

The construction based on the application and requirement of the user against above mentioned IEC standards.



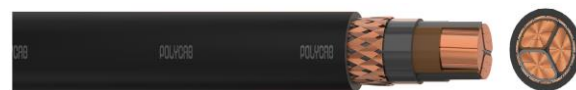
[POLYCAB MARINE IEC 60092-353 0.6/1.0 kV UAR](#)



[POLYCAB MARINE IEC 60092-353 0.6/1.0 kV ARM](#)



[POLYCAB MARINE IEC 60092-353 0.6/1.0 kV VFD](#)



[POLYCAB MARINE IEC 60092-353 1.8/3.0 kV ARM](#)



[POLYCAB MARINE IEC 60092-353 1.8/3.0 kV VFD](#)



[POLYCAB MARINE IEC 60092-354 6/10 kV ARM](#)



[POLYCAB MARINE IEC 60092-354 8.7/15 kV ARM](#)



[POLYCAB MARINE IEC 60092-354 12/20 kV ARM](#)



[POLYCAB MARINE IEC 60092-376 150/250 V OBS](#)



[POLYCAB MARINE IEC 60092-376 150/250 V TPISOBS](#)



[POLYCAB MARINE IEC 60092-376 150/250 V TPOS](#)



[POLYCAB MARINE IEC 60092-376 150/250 V TPIS](#)



[POLYCAB MARINE IEC 60092-353 0.6/1.0 kV UAR](#)



[POLYCAB MARINE IEC 60092-353 0.6/1.0 kV ARM](#)



[POLYCAB MARINE IEC 60092-376 150/250 V OBS FS](#)



[POLYCAB MARINE IEC 60092-376 150/250 V TPISOBS FS](#)



[POLYCAB MARINE IEC 60092-376 150/250 V TPOS FS](#)



[POLYCAB MARINE IEC 60092-376 150/250 V TPIS FS](#)

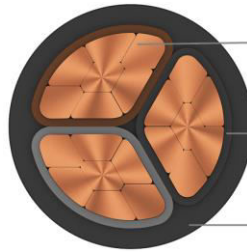
POLYCAB MARINE IEC 60092-353 0.6/1.0 kV UAR

Unarmoured Power and Control Cable, 0.6/1.0 (1.2) kV AC



Outstanding Features

- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission



Stranded Copper Conductor

Extruded XLPE Insulation

Extruded Polyolefin Halogen Free SHF1 Outer Sheath

Application

POLYCAB MARINE Single and Multicore core unarmoured Power and Control cable is suitable to use in fixed installation in power, lighting, control circuits on sea vessels and offshore platforms where peak / transient voltages occurs during motor operations.

Voltage Rating

0.6/1.0 (1.2) KV AC

Operation Temperature

-30°C to +90°C

Short Circuit Temp. 250°C

Bending Radius

Min. 6D (OD > 25 mm); Min. 4D (OD ≤ 25 mm);
(8D for sector shaped conductors);
D is cable diameter

Pulling force Max. 50 N/mm²/conductor

Construction

- Annealed plain stranded copper conductor as per IEC 60228, Class-2 / Class-5 (tinned on request),
- Extruded XLPE Insulation, (Extruded HEPR Insulation available on demand)
- Insulated Cores assembled together, (fillers / Inner covering optional)
- Extruded Polyolefin Halogen Free SHF1 Outer Sheath (Halogen Free SHF2 on request), Colour: Black. (other colours available on request).

Standard Follows

IEC 60228:2005
IEC 60092-350:2020
IEC 60092-353:2016
IEC 60092-360:2014

Test Voltage

3500V AC at (20±5)°C

Compliance

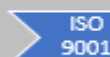
Fire Retardant	IEC 60332-3-22 (Cat.A)
Flame Retardant	IEC 60332-1-2
Halogen free	IEC 60754-1 / IEC 60684-2
Corrosivity of Gases	IEC 60754-2
Smoke Density	IEC 61034-1 and 2

Core Identification

- 1 core: black;
- 2 core: brown, blue;
- 3 core: brown, black, grey;
- 3G core: brown, blue, green/yellow;
- 4 core: brown, black, grey, blue;
- 4G core: brown, black, grey, green/yellow;
- 5 core: brown, black, grey, blue, black
- 5G core: brown, black, grey, blue, green/yellow;
- 7 to 37C core: Black/White cores with number printing
- 7 to 37GC core: Black/White cores with number printing except last core i.e. Green-Yellow



OUR ACCREDITATION



NABL

ABS

IRS

POLYCAB MARINE IEC 60092-353 0.6/1.0 kV UAR

Unarmoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
LVIE07CXUAEV01C1.5SSAXXP	1	1.5	0.70	5.0	40
LVIE07CXUAEV01C2.5SSAXXP	1	2.5	0.70	5.4	50
LVIE07CXUAEV01C004SSAXXP	1	4	0.70	6.0	70
LVIE07CXUAEV01C006SSAXXP	1	6	0.70	6.5	90
LVIE07CXUAEV01C010SSAXXP	1	10	0.70	7.5	135
LVIE07CXUAEV01C016SSAXXP	1	16	0.70	8.5	195
LVIE07CXUAEV01C025SSAXXP	1	25	0.90	10.5	300
LVIE07CXUAEV01C035SSAXXP	1	35	0.90	11.6	400
LVIE07CXUAEV01C050SSAXXP	1	50	1.00	13.5	560
LVIE07CXUAEV01C070SSAXXP	1	70	1.10	15.5	770
LVIE07CXUAEV01C095SSAXXP	1	95	1.10	17.3	1015
LVIE07CXUAEV01C120SSAXXP	1	120	1.20	19.3	1270
LVIE07CXUAEV01C150SSAXXP	1	150	1.40	21.5	1590
LVIE07CXUAEV01C185SSAXXP	1	185	1.60	23.7	1940
LVIE07CXUAEV01C240SSAXXP	1	240	1.70	26.5	2490
LVIE07CXUAEV01C300SSAXXP	1	300	1.80	29.3	3090
LVIE07CXUAEV02C1.5SSAXXP	2	1.5	0.70	8.0	75
LVIE07CXUAEV02C2.5SSAXXP	2	2.5	0.70	9.0	100
LVIE07CXUAEV02C004SSAXXP	2	4	0.70	10.2	140
LVIE07CXUAEV02C006SSAXXP	2	6	0.70	11.3	185
LVIE07CXUAEV02C010SSAXXP	2	10	0.70	13.3	280
LVIE07CXUAEV02C016SSAXXP	2	16	0.70	15.7	410
LVIE07CXUAEV02C025SSAXXP	2	25	0.90	19.3	630
LVIE07CXUAEV02C035SSAXXP	2	35	0.90	21.8	840
LVIE07CXUAEV02C050SSAXXP	2	50	1.00	25.4	1165
LVIE07CXUAEV02C070SSAXXP	2	70	1.10	29.3	1585
LVIE07CXUAEV02C095SSAXXP	2	95	1.10	33.2	2120
LVIE07CXUAEV02C120SSAXXP	2	120	1.20	37.0	2650
LVIE07CXUAEV02C150SSAXXP	2	150	1.40	41.3	3290
LVIE07CXUAEV02C185SSAXXP	2	185	1.60	45.9	4055
LVIE07CXUAEV02C240SSAXXP	2	240	1.70	51.6	5205
LVIE07CXUAEV02C300SSAXXP	2	300	1.80	56.9	6430

OUR ACCREDITATION



Unarmoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
LVIE07CXUAEV02C050SSAXXP	2	50 *	1.00	19.7	1100
LVIE07CXUAEV02C070SSAXXP	2	70 *	1.10	22.6	1510
LVIE07CXUAEV02C095SSAXXP	2	95 *	1.10	25.4	2010
LVIE07CXUAEV02C120SSAXXP	2	120 *	1.20	27.2	2510
LVIE07CXUAEV02C150SSAXXP	2	150 *	1.40	30.4	3120
LVIE07CXUAEV02C185SSAXXP	2	185 *	1.60	33.9	3860
LVIE07CXUAEV02C240SSAXXP	2	240 *	1.70	37.8	4945
LVIE07CXUAEV02C300SSAXXP	2	300 *	1.80	41.5	6145
LVIE07CXUAEV03C1.5SSAXXP	3	1.5	0.70	8.50	95
LVIE07CXUAEV03C2.5SSAXXP	3	2.5	0.70	9.60	135
LVIE07CXUAEV03C004SSAXXP	3	4	0.70	10.8	190
LVIE07CXUAEV03C006SSAXXP	3	6	0.70	12.2	255
LVIE07CXUAEV03C010SSAXXP	3	10	0.70	14.2	385
LVIE07CXUAEV03C016SSAXXP	3	16	0.70	16.7	575
LVIE07CXUAEV03C025SSAXXP	3	25	0.90	20.6	885
LVIE07CXUAEV03C035SSAXXP	3	35	0.90	23.3	1190
LVIE07CXUAEV03C050SSAXXP	3	50	1.00	27.4	1680
LVIE07CXUAEV03C070SSAXXP	3	70	1.10	31.5	2295
LVIE07CXUAEV03C095SSAXXP	3	95	1.10	35.6	3050
LVIE07CXUAEV03C120SSAXXP	3	120	1.20	39.8	3840
LVIE07CXUAEV03C150SSAXXP	3	150	1.40	44.4	4780
LVIE07CXUAEV03C185SSAXXP	3	185	1.60	49.5	5890
LVIE07CXUAEV03C240SSAXXP	3	240	1.70	55.5	7565
LVIE07CXUAEV03C300SSAXXP	3	300	1.80	61.5	9400
LVIE07CXUAEV03C035SSAXXP	3	35 *	0.90	19.0	1125
LVIE07CXUAEV03C050SSAXXP	3	50 *	1.00	22.4	1610
LVIE07CXUAEV03C070SSAXXP	3	70 *	1.10	25.7	2215
LVIE07CXUAEV03C095SSAXXP	3	95 *	1.10	28.7	2940
LVIE07CXUAEV03C120SSAXXP	3	120 *	1.20	31.8	3715
LVIE07CXUAEV03C150SSAXXP	3	150 *	1.40	35.5	4615
LVIE07CXUAEV03C185SSAXXP	3	185 *	1.60	39.6	5710
LVIE07CXUAEV03C240SSAXXP	3	240 *	1.70	44.2	7320
LVIE07CXUAEV03C300SSAXXP	3	300 *	1.80	48.9	9135

Note: * Sector shaped conductor

OUR ACCREDITATION



POLYCAB MARINE IEC 60092-353 0.6/1.0 kV UAR

Unarmoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
LVIE07CXUAEV04C1.5SSAXXP	4	1.5	0.70	9.5	125
LVIE07CXUAEV04C2.5SSAXXP	4	2.5	0.70	10.5	165
LVIE07CXUAEV04C004SSAXXP	4	4	0.70	12.1	245
LVIE07CXUAEV04C006SSAXXP	4	6	0.70	13.4	325
LVIE07CXUAEV04C010SSAXXP	4	10	0.70	15.8	505
LVIE07CXUAEV04C016SSAXXP	4	16	0.70	18.6	750
LVIE07CXUAEV04C025SSAXXP	4	25	0.90	23.0	1160
LVIE07CXUAEV04C035SSAXXP	4	35	0.90	25.9	1565
LVIE07CXUAEV04C050SSAXXP	4	50	1.00	30.4	2205
LVIE07CXUAEV04C070SSAXXP	4	70	1.10	35.1	3015
LVIE07CXUAEV04C095SSAXXP	4	95	1.10	39.8	4035
LVIE07CXUAEV04C120SSAXXP	4	120	1.20	44.3	5050
LVIE07CXUAEV04C035SSAXXP	4	35 *	0.90	23.1	1640
LVIE07CXUAEV04C050SSAXXP	4	50 *	1.00	27.2	2340
LVIE07CXUAEV04C070SSAXXP	4	70 *	1.10	31.3	3215
LVIE07CXUAEV04C095SSAXXP	4	95 *	1.10	35.3	4270
LVIE07CXUAEV04C120SSAXXP	4	120 *	1.20	38.0	4945
LVIE07CXUAEV05C004SSAXXP	5	4	0.70	13.2	305
LVIE07CXUAEV05C006SSAXXP	5	6	0.70	14.8	415
LVIE07CXUAEV05C010SSAXXP	5	10	0.70	17.4	635
LVIE07CXUAEV05C016SSAXXP	5	16	0.70	20.4	955
LVIE07CXUAEV05C025SSAXXP	5	25	0.90	25.5	1490
LVIE07CXUAEV05C035SSAXXP	5	35	0.90	28.8	2010
LVIE07CXUAEV05C050SSAXXP	5	50	1.00	33.8	2835
LVIE07CXUAEV05C070SSAXXP	5	70	1.10	39.1	3895
LVIE07CXUAEV05C095SSAXXP	5	95	1.10	44.2	5190
LVIE07CXUAEV05C1.5SSAXXP	5	1.5	0.70	10.3	150
LVIE07CXUAEV07C1.5SSAXXP	7	1.5	0.70	11.2	190
LVIE07CXUAEV10C1.5SSAXXP	10	1.5	0.70	14.4	270
LVIE07CXUAEV12C1.5SSAXXP	12	1.5	0.70	15.1	320
LVIE07CXUAEV14C1.5SSAXXP	14	1.5	0.70	15.8	365
LVIE07CXUAEV16C1.5SSAXXP	16	1.5	0.70	16.7	410
LVIE07CXUAEV19C1.5SSAXXP	19	1.5	0.70	17.8	480
LVIE07CXUAEV24C1.5SSAXXP	24	1.5	0.70	21.0	605
LVIE07CXUAEV27C1.5SSAXXP	27	1.5	0.70	21.4	670
LVIE07CXUAEV37C1.5SSAXXP	37	1.5	0.70	24.2	890

Note: * Sector shaped conductor

OUR ACCREDITATION



DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
LVIE07CXUAEV05C2.5SSAXXP	5	2.5	0.70	11.4	205
LVIE07CXUAEV07C2.5SSAXXP	7	2.5	0.70	12.7	270
LVIE07CXUAEV10C2.5SSAXXP	10	2.5	0.70	16.3	385
LVIE07CXUAEV12C2.5SSAXXP	12	2.5	0.70	16.8	445
LVIE07CXUAEV14C2.5SSAXXP	14	2.5	0.70	17.9	515
LVIE07CXUAEV16C2.5SSAXXP	16	2.5	0.70	18.9	580
LVIE07CXUAEV19C2.5SSAXXP	19	2.5	0.70	19.9	670
LVIE07CXUAEV24C2.5SSAXXP	24	2.5	0.70	23.7	860
LVIE07CXUAEV27C2.5SSAXXP	27	2.5	0.70	24.2	950
LVIE07CXUAEV30C2.5SSAXXP	30	2.5	0.70	25.1	1045
LVIE07CXUAEV37C2.5SSAXXP	37	2.5	0.70	27.3	1275

OUR ACCREDITATION



POLYCAB MARINE IEC 60092-353 0.6/1.0 kV UAR

Unarmoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

ELECTRICAL CHARACTERISTICS:

Conductor cross-sectional area	Max. Conductor Resistance of Class-2		Current Rating for continuous service Conductor temperature max. +90°C, Ambient temperature max +45°C									
	at 20°C DC	at 90°C AC	1C	2C	3C	4C	5C	7C	12C	19C	27C	37C
			1.0 *	0.85 *	0.70 *	0.70 *	0.58 *	0.52 *	0.44 *	0.37 *	0.33 *	0.90 *
mm ²	Ohm/km		Amps									
1.5	12.1	15.4	23	20	16	16	13	12	10	9	8	7
2.5	7.41	9.45	30	26	21	21	18	16	13	11	10	9
4	4.61	5.88	41	34	28	28	24	-	-	-	-	-
6	3.08	3.93	52	44	36	36	30	-	-	-	-	-
10	1.83	2.33	72	61	50	50	42	-	-	-	-	-
16	1.15	1.47	96	82	67	67	56	-	-	-	-	-
25	0.727	0.927	127	108	89	89	74	-	-	-	-	-
35	0.524	0.668	157	133	110	110	92	-	-	-	-	-
50	0.387	0.493	196	167	137	137	-	-	-	-	-	-
70	0.268	0.342	242	206	169	169	-	-	-	-	-	-
95	0.193	0.246	293	249	205	205	-	-	-	-	-	-
120	0.153	0.195	339	288	237	237	-	-	-	-	-	-
150	0.124	0.158	389	331	272	272	-	-	-	-	-	-
185	0.0991	0.126	444	377	311	311	-	-	-	-	-	-
240	0.0754	0.0961	522	444	365	365	-	-	-	-	-	-
300	0.0601	0.0766	601	511	421	421	-	-	-	-	-	-

Current Ratings are in accordance with IEC 60029-352 Table B.4.

Ambient temperature de-rating factors, according to IEC 60092-352 Table-3

Temperature (°C)	35	40	45	50	55	60	65	70	75
De-rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58

OUR ACCREDITATION



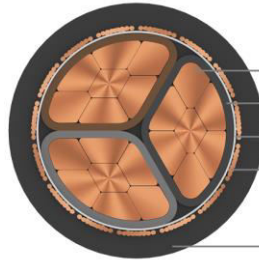
POLYCAB MARINE IEC 60092-353 0.6/1.0 kV ARM

Armoured Power and Control Cable, 0.6/1.0 (1.2) kV AC



Outstanding Features

- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission



- Stranded Copper Conductor
- Extruded XLPE Insulation
- Binding tape
- Copper Braid Armour
- Extruded Polyolefin Halogen Free SHF1 Outer Sheat

Application

POLYCAB MARINE Single and Multicore core Armoured Power and Control cable is suitable to use in fixed installation in power, lighting and control circuits on sea vessels and offshore platforms

Voltage Rating

0.6/1.0 (1.2) KV AC

Operation Temperature

-30°C to +90°C

Short Circuit Temp. 250°C

Bending Radius

Min. 6D (8D for sector shaped conductors);
D is cable diameter

Pulling force Max. 50 N/mm² / conductor

Construction

- Annealed plain stranded copper conductor as per IEC 60228, Class-2 (Class-5 / tinned on request),
- Extruded XLPE Insulation, (Extruded HEPR Insulation available on demand)
- Insulated Cores assembled together, (fillers / Inner covering / Binding tape optional)
- Annealed plain Copper Braid Armour / Screen,
- Extruded Polyolefin HF-SHF1 Outer Sheath (HF-SHF2 on request), Colour: Black. (other colours available on request).

Standard Follows

IEC 60228:2005
IEC 60092-350:2020
IEC 60092-352:
IEC 60092-353:2016
IEC 60092-360:2014

Test Voltage

3500V AC at (20±5)°C

Core Identification

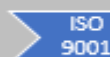
- 1 core: black;
- 2 core: brown, blue;
- 3 core: brown, black, grey;
- 3G core: brown, blue, green/yellow;
- 4 core: brown, black, grey, blue;
- 4G core: brown, black, grey, green/yellow;
- 5 core: brown, black, grey, blue, black
- 5G core: brown, black, grey, blue, green/yellow;
- 7 to 37C core: Black/White cores with number printing
7 to 37GC core: Black/White cores with number printing except last core i.e. Green-Yellow

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 ACCREDITATION



NABL

ABS

IRS

POLYCAB MARINE IEC 60092-353 0.6/1.0 kV ARM

Armoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Braid Wire Dia. (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE07CXCBEV01C1.5SSAXXP	1	1.5	0.70	0.20	6.0	60
BCIE07CXCBEV01C2.5SSAXXP	1	2.5	0.70	0.20	6.4	75
BCIE07CXCBEV01C004SSAXXP	1	4	0.70	0.20	7.0	95
BCIE07CXCBEV01C006SSAXXP	1	6	0.70	0.20	7.5	120
BCIE07CXCBEV01C010SSAXXP	1	10	0.70	0.20	8.5	170
BCIE07CXCBEV01C016SSAXXP	1	16	0.70	0.20	9.7	240
BCIE07CXCBEV01C025SSAXXP	1	25	0.90	0.20	11.5	350
BCIE07CXCBEV01C035SSAXXP	1	35	0.90	0.20	12.8	460
BCIE07CXCBEV01C050SSAXXP	1	50	1.00	0.20	14.5	625
BCIE07CXCBEV01C070SSAXXP	1	70	1.10	0.30	17.0	880
BCIE07CXCBEV01C095SSAXXP	1	95	1.10	0.30	19.0	1150
BCIE07CXCBEV01C120SSAXXP	1	120	1.20	0.30	21.0	1425
BCIE07CXCBEV01C150SSAXXP	1	150	1.40	0.30	23.0	1745
BCIE07CXCBEV01C185SSAXXP	1	185	1.60	0.30	25.4	2125
BCIE07CXCBEV01C240SSAXXP	1	240	1.70	0.30	28.2	2700
BCIE07CXCBEV01C300SSAXXP	1	300	1.80	0.30	31.0	3325
BCIE07CXCBEV02C1.5SSAXXP	2	1.5	0.70	0.20	9.30	125
BCIE07CXCBEV02C2.5SSAXXP	2	2.5	0.70	0.20	10.1	145
BCIE07CXCBEV02C004SSAXXP	2	4	0.70	0.20	11.3	190
BCIE07CXCBEV02C006SSAXXP	2	6	0.70	0.20	12.5	260
BCIE07CXCBEV02C010SSAXXP	2	10	0.70	0.20	14.4	365
BCIE07CXCBEV02C016SSAXXP	2	16	0.70	0.30	17.2	555
BCIE07CXCBEV02C025SSAXXP	2	25	0.90	0.30	21.1	830
BCIE07CXCBEV02C035SSAXXP	2	35	0.90	0.30	23.4	1065
BCIE07CXCBEV02C050SSAXXP	2	50	1.00	0.30	27.2	1460
BCIE07CXCBEV02C070SSAXXP	2	70	1.10	0.30	31.3	1960
BCIE07CXCBEV02C095SSAXXP	2	95	1.10	0.30	35.0	2545
BCIE07CXCBEV02C120SSAXXP	2	120	1.20	0.30	38.8	3140
BCIE07CXCBEV02C150SSAXXP	2	150	1.40	0.40	43.8	3995
BCIE07CXCBEV02C185SSAXXP	2	185	1.60	0.40	48.4	4870
BCIE07CXCBEV02C240SSAXXP	2	240	1.70	0.40	54.1	6165

OUR ACCREDITATION



DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Braid Wire Dia. (mm)	Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE07CXCBEV03C1.5SSAXXP	3	1.5	0.70	0.20	9.8	140
BCIE07CXCBEV03C2.5SSAXXP	3	2.5	0.70	0.20	10.7	180
BCIE07CXCBEV03C004SSAXXP	3	4	0.70	0.20	12.1	245
BCIE07CXCBEV03C006SSAXXP	3	6	0.70	0.20	13.3	315
BCIE07CXCBEV03C010SSAXXP	3	10	0.70	0.30	16.0	500
BCIE07CXCBEV03C016SSAXXP	3	16	0.70	0.30	18.5	710
BCIE07CXCBEV03C025SSAXXP	3	25	0.90	0.30	22.4	1050
BCIE07CXCBEV03C035SSAXXP	3	35	0.90	0.30	25.1	1380
BCIE07CXCBEV03C050SSAXXP	3	50	1.00	0.30	28.9	1885
BCIE07CXCBEV03C070SSAXXP	3	70	1.10	0.30	33.5	2565
BCIE07CXCBEV03C095SSAXXP	3	95	1.10	0.30	37.6	3360
BCIE07CXCBEV03C120SSAXXP	3	120	1.20	0.40	42.3	4285
BCIE07CXCBEV03C150SSAXXP	3	150	1.40	0.40	46.9	5275
BCIE07CXCBEV03C185SSAXXP	3	185	1.60	0.40	52.0	6440
BCIE07CXCBEV03C240SSAXXP	3	240	1.70	0.40	58.0	8185
BCIE07CXCBEV03C300SSAXXP	3	300	1.80	0.40	64.0	10085
BCIE07CXCBEV03C035SSAXXP	3	35 *	0.90	0.30	20.8	1280
BCIE07CXCBEV03C050SSAXXP	3	50 *	1.00	0.30	23.9	1775
BCIE07CXCBEV03C070SSAXXP	3	70 *	1.10	0.30	27.5	2420
BCIE07CXCBEV03C095SSAXXP	3	95 *	1.10	0.30	30.5	3170
BCIE07CXCBEV03C120SSAXXP	3	120 *	1.20	0.40	34.3	4065
BCIE07CXCBEV03C150SSAXXP	3	150 *	1.40	0.40	38.0	5010
BCIE07CXCBEV03C185SSAXXP	3	185 *	1.60	0.40	42.1	6150
BCIE07CXCBEV04C1.5SSAXXP	4	1.5	0.70	0.20	10.5	170
BCIE07CXCBEV04C2.5SSAXXP	4	2.5	0.70	0.20	11.6	220
BCIE07CXCBEV04C004SSAXXP	4	4	0.70	0.20	13.1	305
BCIE07CXCBEV04C006SSAXXP	4	6	0.70	0.30	15.2	430
BCIE07CXCBEV04C010SSAXXP	4	10	0.70	0.30	17.4	620
BCIE07CXCBEV04C016SSAXXP	4	16	0.70	0.30	20.2	890
BCIE07CXCBEV04C025SSAXXP	4	25	0.90	0.30	24.8	1350
BCIE07CXCBEV04C035SSAXXP	4	35	0.90	0.30	27.7	1775
BCIE07CXCBEV04C050SSAXXP	4	50	1.00	0.30	32.2	2450
BCIE07CXCBEV04C070SSAXXP	4	70	1.10	0.30	37.1	3320

* Note: sector shaped conductors

OUR ACCREDITATION



POLYCAB MARINE IEC 60092-353 0.6/1.0 kV ARM

Armoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Braid Wire Dia. (mm)	Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE07CXCBEV04C095SSAXXP	4	95	1.10	0.40	42.3	4480
BCIE07CXCBEV04C120SSAXXP	4	120	1.20	0.40	46.8	5545
BCIE07CXCBEV04C150SSAXXP	4	150	1.40	0.40	52.2	6870
BCIE07CXCBEV04C185SSAXXP	4	185	1.60	0.40	57.7	8400
BCIE07CXCBEV04C240SSAXXP	4	240	1.70	0.40	64.5	10690
BCIE07CXCBEV04C300SSAXXP	4	300	1.80	0.40	70.9	13145
BCIE07CXCBEV04C035SSAXXP	4	35 *	0.90	0.30	24.9	1825
BCIE07CXCBEV04C050SSAXXP	4	50 *	1.00	0.30	28.7	2540
BCIE07CXCBEV04C070SSAXXP	4	70 *	1.10	0.30	33.3	3485
BCIE07CXCBEV04C095SSAXXP	4	95 *	1.10	0.40	37.8	4665
BCIE07CXCBEV04C120SSAXXP	4	120 *	1.20	0.40	40.5	5740
BCIE07CXCBEV05C004SSAXXP	5	4	0.70	0.20	14.3	360
BCIE07CXCBEV05C006SSAXXP	5	6	0.70	0.30	16.4	515
BCIE07CXCBEV05C010SSAXXP	5	10	0.70	0.30	19.1	755
BCIE07CXCBEV05C016SSAXXP	5	16	0.70	0.30	22.2	1085
BCIE07CXCBEV05C025SSAXXP	5	25	0.90	0.30	27.3	1650
BCIE07CXCBEV05C035SSAXXP	5	35	0.90	0.30	31.2	2220
BCIE07CXCBEV05C050SSAXXP	5	50	1.00	0.30	35.8	3030
BCIE07CXCBEV05C070SSAXXP	5	70	1.10	0.40	41.2	4155
BCIE07CXCBEV05C095SSAXXP	5	95	1.10	0.40	46.1	5430
BCIE07CXCBEV05C1.5SSAXXP	5	1.5	0.70	0.20	11.4	200
BCIE07CXCBEV07C1.5SSAXXP	7	1.5	0.70	0.20	12.5	250
BCIE07CXCBEV10C1.5SSAXXP	10	1.5	0.70	0.30	16.2	390
BCIE07CXCBEV12C1.5SSAXXP	12	1.5	0.70	0.30	16.6	435
BCIE07CXCBEV14C1.5SSAXXP	14	1.5	0.70	0.30	17.6	490
BCIE07CXCBEV16C1.5SSAXXP	16	1.5	0.70	0.30	18.5	540
BCIE07CXCBEV19C1.5SSAXXP	19	1.5	0.70	0.30	19.4	610
BCIE07CXCBEV24C1.5SSAXXP	24	1.5	0.70	0.30	22.6	765
BCIE07CXCBEV27C1.5SSAXXP	27	1.5	0.70	0.30	23.0	830
BCIE07CXCBEV37C1.5SSAXXP	37	1.5	0.70	0.30	25.8	1070
BCIE07CXCBEV05C2.5SSAXXP	5	2.5	0.70	0.20	12.7	265
BCIE07CXCBEV07C2.5SSAXXP	7	2.5	0.70	0.20	13.7	330
BCIE07CXCBEV10C2.5SSAXXP	10	2.5	0.70	0.30	18.1	515
BCIE07CXCBEV12C2.5SSAXXP	12	2.5	0.70	0.30	18.6	580

* Note: sector shaped conductors

OUR ACCREDITATION



POLYCAB MARINE IEC 60092-353 0.6/1.0 kV ARM

Armoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Braid Wire Dia. (mm)	Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE07CXCBEV14C2.5SSAXXP	14	2.5	0.70	0.30	19.5	650
BCIE07CXCBEV16C2.5SSAXXP	16	2.5	0.70	0.30	20.7	730
BCIE07CXCBEV19C2.5SSAXXP	19	2.5	0.70	0.30	21.7	830
BCIE07CXCBEV24C2.5SSAXXP	24	2.5	0.70	0.30	25.3	1040
BCIE07CXCBEV27C2.5SSAXXP	27	2.5	0.70	0.30	25.8	1135
BCIE07CXCBEV30C2.5SSAXXP	30	2.5	0.70	0.30	26.9	1245
BCIE07CXCBEV37C2.5SSAXXP	37	2.5	0.70	0.30	29.1	1495

OUR ACCREDITATION



POLYCAB MARINE IEC 60092-353 0.6/1.0 kV ARM

Armoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

ELECTRICAL CHARACTERISTICS:

Conductor cross-sectional area	Max. Conductor Resistance		Current Rating for continuous service Conductor temperature max. +90°C, ambient temperature max +45°C									
	at 20°C DC	at 90°C AC	1C	2C	3C	4C	5C	7C	12C	19C	27C	37C
			1.0 *	0.85 *	0.70 *	0.70 *	0.58 *	0.52 *	0.44 *	0.37 *	0.33 *	0.90 *
mm ²	Ohm/km		Amps									
1.5	12.1	15.4	23	20	16	16	13	12	10	9	8	7
2.5	7.41	9.45	30	26	21	21	18	16	13	11	10	9
4	4.61	5.88	41	34	28	28	24	-	-	-	-	-
6	3.08	3.93	52	44	36	36	30	-	-	-	-	-
10	1.83	2.33	72	61	50	50	42	-	-	-	-	-
16	1.15	1.47	96	82	67	67	56	-	-	-	-	-
25	0.727	0.927	127	108	89	89	74	-	-	-	-	-
35	0.524	0.668	157	133	110	110	92	-	-	-	-	-
50	0.387	0.493	196	167	137	137	-	-	-	-	-	-
70	0.268	0.342	242	206	169	169	-	-	-	-	-	-
95	0.193	0.246	293	249	205	205	-	-	-	-	-	-
120	0.153	0.195	339	288	237	237	-	-	-	-	-	-
150	0.124	0.158	389	331	272	272	-	-	-	-	-	-
185	0.0991	0.126	444	377	311	311	-	-	-	-	-	-
240	0.0754	0.0961	522	444	365	365	-	-	-	-	-	-
300	0.0601	0.0766	601	511	421	421	-	-	-	-	-	-

Current Ratings are in accordance with IEC 60029-352 Table B.4.

Ambient temperature de-rating factors, according to IEC 60092-352 Table-3

Temperature (°C)	35	40	45	50	55	60	65	70	75
De-rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58

OUR ACCREDITATION



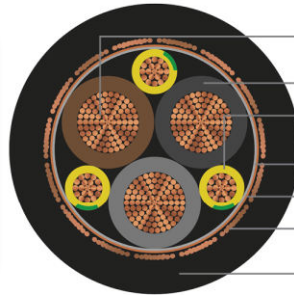
POLYCAB MARINE IEC 60092-353 0.6/1.0 kV VFD

Screened & Armoured VFD Cable, 0.6/1.0 (1.2) kV AC



Outstanding Features

- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission



- Stranded Copper Conductor
- Extruded XLPE Insulation
- Earth Cores
- Inner Covering
- Copper Tape
- Copper Braid Armour
- Extruded Polyolefin Halogen Free SHF1 Outer Sheath

Application

POLYCAB MARINE Single and Multicore core Screened & Armoured VFD cable is suitable to use in sea vessels and offshore platforms where transient voltage occurs in motors during operation i.e. for Variable Frequency drive applications.

Voltage Rating

0.6/1.0 (1.2) KV AC

Operation Temperature

-30°C to +90°C

Short Circuit Temp. 250°C

Bending Radius

Min. 12D (OD > 25 mm); Min. 10D (OD ≤ 25 mm);
(8D for sector shaped conductors)

D is cable diameter

Pulling force Max. 50 N/mm² / conductor

Construction

- Annealed plain stranded flexible copper conductor as per IEC 60228, Class-5 (tinned on request),
- Extruded XLPE Insulation, (Extruded HEPR Insulation available on demand)
- Insulated Cores assembled along with 3 Earth cores together, (Inner covering / fillers optional)
- Copper/Polyester tape Screened,
- Annealed plain Copper Braid Armour,
- Extruded Polyolefin HF-SHF1 Outer Sheath (HF-SHF2 on request), Colour: Black. (others colour on request).

Standard Follows:

- IEC 60228:2005
- IEC 60092-350:2020
- IEC 60092-352:2005
- IEC 60092-353:2016
- IEC 60092-360:2014

Test Voltage

3500V AC at (20±5)°C

Compliance

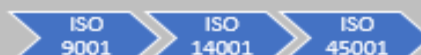
Fire Retardant	IEC 60332-3-22 (cat.A)
Flame Retardant	IEC 60332-1-2
Halogen free	IEC 60754-1 / IEC 60684-2
Corrosivity of Gases	IEC 60754-2
Smoke Density	IEC 61034-1 and 2

Core Identification

- 3 core: brown, black, grey;
- Earth core: green/yellow;



OUR ACCREDITATION



POLYCAB MARINE IEC 60092-353 0.6/1.0 kV VFD Screened & Armoured VFD Cable, 0.6/1.0 (1.2) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Braid Wire Dia. (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE07CXCBEV03C016SSAXXP	3	16	0.7	0.30	20.3	825
BCIE07CXCBEV03C025SSAXXP	3	25	0.9	0.30	24.3	1185
BCIE07CXCBEV03C035SSAXXP	3	35	0.9	0.30	27.0	1535
BCIE07CXCBEV03C050SSAXXP	3	50	1.0	0.30	30.8	2255
BCIE07CXCBEV03C070SSAXXP	3	70	1.1	0.30	35.7	3070
BCIE07CXCBEV03C095SSAXXP	3	95	1.1	0.40	40.2	4055
BCIE07CXCBEV03C120SSAXXP	3	120	1.1	0.40	44.3	4990
BCIE07CXCBEV03C150SSAXXP	3	150	1.2	0.40	49.0	6085
BCIE07CXCBEV03C050SSAXXP	3	50 + 16	1.0	0.30	30.8	2355
BCIE07CXCBEV03C095SSAXXP	3	95 + 25	1.2	0.40	40.2	5515
BCIE07CXCBEV03C120SSAXXP	3	120 + 25	1.4	0.40	44.3	5865
BCIE07CXCBEV03C150SSAXXP	3	150 + 25	1.4	0.40	49.0	6610

ELECTRICAL CHARACTERISTICS:

Conductor cross-sectional area mm ²	Max. Conductor Resistance		Current Rating for continuous service Conductor temperature max. +90°C, Ambient temperature max. +45°C
	at 20°C DC	at 90°C AC	
	Ohm/km		Amps
16	1.21	1.55	67
25	0.780	0.998	89
35	0.554	0.709	110
50	0.386	0.494	137
70	0.272	0.325	169
95	0.206	0.263	205
120	0.161	0.206	237
150	0.129	0.165	272

Current Ratings are in accordance with IEC 60029-352 Table B.4.

Ambient temperature de-rating factors, according to IEC 60092-352 Table-3

Temperature (°C)	35	40	45	50	55	60	65	70	75
De-rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58

OUR ACCREDITATION



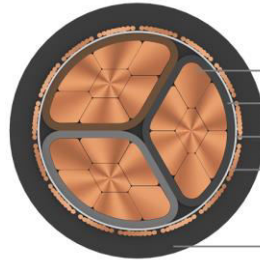
POLYCAB MARINE IEC 60092-353 1.8/3.0 kV ARM

Armoured Power and Control Cable, 1.8/3.0 (3.6) kV AC



Outstanding Features

- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission



- Stranded Copper Conductor
- Extruded XLPE Insulation
- Binding tape
- Copper Braid Armour
- Extruded Polyolefin Halogen Free SHF1 Outer Sheath

Application

POLYCAB MARINE Single and Multicore core Armoured Power and Control cable is suitable to use in fixed installation in power, lighting and control circuits on sea vessels and offshore platforms

Voltage Rating

1.8/3.0 (3.6) KV AC

Operation Temperature

-30°C to +90°C

Short Circuit Temp. 250°C

Bending Radius

Min. 6D; (8D for sector shaped conductors);
D is cable diameter

Pulling force Max. 50 N/mm² / conductor

Construction

- Annealed plain stranded copper conductor as per IEC 60228, Class-2 / Class 5 (tinned on request),
- Extruded XLPE Insulation, (Extruded HEPR Insulation available on demand)
- Insulated Cores assembled together, (fillers / Inner covering / Binding tape optional)
- Annealed plain Copper Braid Armour / Screen,
- Extruded Polyolefin HF-SHF1 Outer Sheath (HF-SHF2 on request), Colour: Black. (other colours available on request).

Standard Follows

IEC 60228:2005
IEC 60092-350:2020
IEC 60092-352:
IEC 60092-353:2016
IEC 60092-360:2014

Test Voltage

6500V AC at (20±5)°C

Core Identification

- 1 core: black;
- 3 core: brown, black, grey;

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 ACCREDITATION



POLYCAB MARINE IEC 60092-353 1.8/3.0 kV ARM

Armoured Power and Control Cable, 1.8/3.0 (3.6) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Braid Wire Dia. (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE44CXCBEV01C120SSAXXP	1	120	2.0	0.30	24.6	1600
BCIE44CXCBEV01C150SSAXXP	1	150	2.0	0.30	26.4	1900
BCIE44CXCBEV01C185SSAXXP	1	185	2.0	0.30	28.2	2285
BCIE44CXCBEV01C240SSAXXP	1	240	2.0	0.30	30.7	2830
BCIE44CXCBEV01C300SSAXXP	1	300	2.0	0.30	33.4	3470
BCIE44CXCBEV03C095SSAXXP	3	95	2.0	0.40	44.2	4430
BCIE44CXCBEV03C120SSAXXP	3	120	2.0	0.40	47.7	5340
BCIE44CXCBEV03C150SSAXXP	3	150	2.0	0.40	51.6	6380

ELECTRICAL CHARACTERISTICS:

Conductor cross-sectional area mm ²	Max. Conductor Resistance				Current Rating for continuous service	
	Class-2		Class-5		1C	3C
	at 20°C DC	at 90°C AC	at 20°C DC	at 90°C AC	1.0 *	0.70 *
	Ohm/km				Amps	
95	0.193	0.249	0.206	0.263	293	205
120	0.153	0.195	0.161	0.206	339	237
150	0.124	0.158	0.129	0.165	389	272
185	0.0991	0.1264	0.106	0.136	444	311
240	0.0754	0.0961	0.0801	0.1021	522	365
300	0.0601	0.0766	0.0641	0.0817	601	421

*: Derating factors for No. of Cores

Conductor temperature max. +90°C, ambient temperature max. +45°C

Current ratings according to IEC 60092-352 Annex A Table B.4.

Ambient temperature de-rating factors, according to IEC 60092-352 Table-3

Temperature(°C)	35	40	45	50	55	60	65	70	75
De-rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58

OUR ACCREDITATION



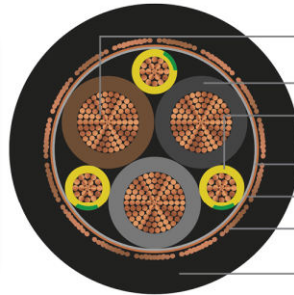
POLYCAB MARINE IEC 60092-353 1.8/3.0 kV VFD

Screened & Armoured VFD Cable, 1.8/3.0 (3.6) kV AC



Outstanding Features

- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission



- Stranded Copper Conductor
- Extruded XLPE Insulation
- Earth Cores
- Inner Covering
- Copper Tape
- Copper Braid Armour
- Extruded Polyolefin Halogen Free SHF1 Outer Sheath

Application

POLYCAB MARINE Single and Multicore core Screened & Armoured VFD cable is suitable to use in sea vessels and offshore platforms where transient voltage occurs in motors during operation i.e. for Variable Frequency drive applications.

Voltage Rating

1.8/3.0 (3.6) kV AC

Operation Temperature

-30°C to +90°C
Short Circuit Temp. 250°C

Construction

- Annealed plain stranded flexible copper conductor as per IEC 60228, Class-5 (tinned on request),
- Extruded XLPE Insulation, (Extruded HEPR Insulation available on demand)
- Insulated Cores assembled along with 3 Earth cores together, (Inner covering / fillers optional)
- Copper/Polyester tape Screened,
- Annealed plain Copper Braid Armour,
- Extruded Polyolefin HF-SHF1 Outer Sheath (HF-SHF2 on request), Colour: Black. (others colour on request).

Core Identification

- 3 core: brown, black, grey;
- Earth core: green/yellow;

Bending Radius

Min. 6D; (8D for sector shaped conductors);
D is cable diameter

Pulling force Max. 50 N/mm² / conductor

Standard Follows:

IEC 60228:2005
IEC 60092-350:2020
IEC 60092-352:2005
IEC 60092-353:2016
IEC 60092-360:2014

Test Voltage

6500V AC at (20±5)°C

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 ACCREDITATION



POLYCAB MARINE IEC 60092-353 1.8/3.0 kV VFD

Screened & Armoured VFD Cable, 1.8/3.0 (3.6) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Braid Wire Dia. (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE44CXCBEV03C016SSAXXP	3	16	2.0	0.30	26.5	1080
BCIE44CXCBEV03C025SSAXXP	3	25	2.0	0.30	29.4	1415
BCIE44CXCBEV03C035SSAXXP	3	35	2.0	0.30	32.2	1785
BCIE44CXCBEV03C050SSAXXP	3	50	2.0	0.30	36.0	2675
BCIE44CXCBEV03C070SSAXXP	3	70	2.0	0.40	40.2	3545
BCIE44CXCBEV03C095SSAXXP	3	95	2.0	0.40	44.5	4440
BCIE44CXCBEV03C120SSAXXP	3	120	2.0	0.40	48.3	5385
BCIE44CXCBEV03C150SSAXXP	3	150	2.0	0.40	51.8	6375
BCIE44CXCBEV03C095SSAXXP	3	95 + 25	2.0	0.40	44.5	4535
BCIE44CXCBEV03C120SSAXXP	3	120 + 25	2.0	0.40	48.3	5650
BCIE44CXCBEV03C150SSAXXP	3	150 + 25	2.0	0.40	51.8	6545

ELECTRICAL CHARACTERISTICS:

Conductor cross-sectional area mm ²	Max. Conductor Resistance		Current Rating for continuous service Conductor temperature max. +90°C, Ambient temperature max. +45°C
	at 20°C DC	at 90°C AC	
	Ohm/km		Amps
16	1.21	1.55	67
25	0.780	0.998	89
35	0.554	0.709	110
50	0.386	0.494	137
70	0.272	0.325	169
95	0.206	0.263	205
120	0.161	0.206	237
150	0.129	0.165	272

Current Ratings are in accordance with IEC 60029-352 Table B.4.

Ambient temperature de-rating factors, according to IEC 60092-352 Table-3

Temperature (°C)	35	40	45	50	55	60	65	70	75
De-rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58

OUR ACCREDITATION



POLYCAB MARINE IEC 60092-354 6/10 kV ARM

Armoured Medium Voltage Cables, 6/10 (12) kV AC



Outstanding Features

- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission



Application

POLYCAB MARINE Single and Multicore Armoured Medium Voltage cable is suitable to use in fixed installation in power circuits on marine vessels and offshore platforms

Voltage Rating

6/10 (12) KV AC

Pulling force Max. 50 N/mm² / conductor

Operation Temperature

-30°C to +90°C

Short Circuit Temp. 250°C

Standard Follows

IEC 60228:2005
IEC 60092-350:2020
IEC 60092-352:2005
IEC 60092-354:2020
IEC 60092-360:2014

Construction

- Annealed plain copper conductor as per IEC 60228, Class-5 (tinned on request),
- Extruded Semi-Conductive Tape / Compound,
- Extruded XLPE Insulation, (Extruded HEPR Insulation available on demand)
- Extruded Semi-Conductive Compound,
- Copper Tape,
- Insulated Cores assembled together & provided with Inner covering,
- Annealed plain Copper Braid Armour / Screen,
- Extruded Polyolefin Halogen free SHF1 Outer Sheath (HF-SHF2 on request), Colour: Red. (other colours available on request).

High Voltage Test (kV AC)	Impulse test Voltage (kV peak)
21	75

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

Core Identification

- 1 core: black;
- 3 core: brown, black, grey;



Bending Radius

Min. 12D (Single Core); Min. 9D (3 Core);

D is cable diameter

OUR ACCREDITATION



POLYCAB MARINE IEC 60092-354 6/10 kV ARM

Armoured Medium Voltage Cables, 6/10 (12) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE22CXCBEV001C050SSAXXP	1	50	3.4	24.5	1130
BCIE22CXCBEV001C070SSAXXP	1	70	3.4	26.5	1390
BCIE22CXCBEV001C095SSAXXP	1	95	3.4	28.5	1690
BCIE22CXCBEV001C120SSAXXP	1	120	3.4	30.0	1970
BCIE22CXCBEV001C150SSAXXP	1	150	3.4	32.0	2320
BCIE22CXCBEV001C185SSAXXP	1	185	3.4	34.5	2820
BCIE22CXCBEV001C240SSAXXP	1	240	3.4	37.5	3420
BCIE22CXCBEV003C035SSAXXP	3	35	3.4	45.0	3320
BCIE22CXCBEV003C050SSAXXP	3	50	3.4	48.5	4040
BCIE22CXCBEV003C070SSAXXP	3	70	3.4	53.0	4990
BCIE22CXCBEV003C095SSAXXP	3	95	3.4	57.0	6070
BCIE22CXCBEV003C120SSAXXP	3	120	3.4	60.5	7120

ELECTRICAL CHARACTERISTICS:

Conductor cross-sectional area	Max. Conductor Resistance		Current Rating for continuous service	
	at 20°C DC	at 90°C AC	1C	3C
			1.0 *	0.70 *
mm ²	Ohm/km		Amps	
35	0.554	0.709	157	110
50	0.386	0.494	196	137
70	0.272	0.325	242	169
95	0.206	0.263	293	205
120	0.161	0.206	339	237
150	0.129	0.165	389	272
185	0.106	0.136	444	311
240	0.0801	0.102	522	365

*: Derating factors for No. of Cores

Conductor temperature max. +90°C, ambient temperature max +45°C

Current ratings according to IEC 60092-352 Annex A Table B.4.

Ambient temperature de-rating factors, according to IEC 60092-352 Table-3

Temperature(°C)	35	40	45	50	55	60	65	70	75
De-rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58

OUR ACCREDITATION



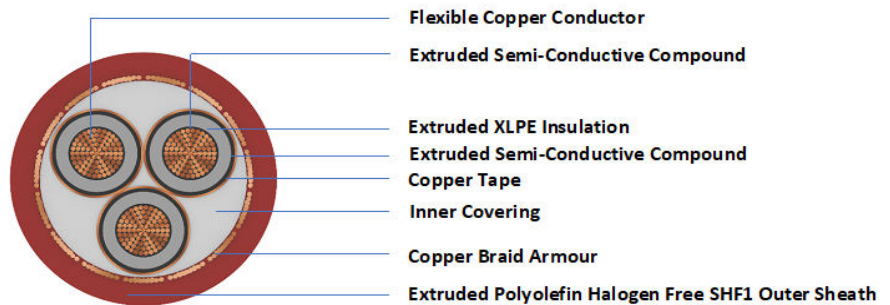
POLYCAB MARINE IEC 60092-354 8.7/15 kV ARM

Armoured Medium Voltage Cables, 8.7/15 (17) kV AC



Outstanding Features

- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission



Application

POLYCAB MARINE Single and Multicore Armoured Medium Voltage cable is suitable to use in fixed installation in power circuits on marine vessels and offshore platforms

Voltage Rating

8.7/15 (17) KV AC

Pulling force Max. 50 N/mm² / conductor

Operation Temperature

-30°C to +90°C

Short Circuit Temp. 250°C

Standard Follows

- IEC 60228:2005
- IEC 60092-350:2020
- IEC 60092-352:2005
- IEC 60092-354:2020
- IEC 60092-360:2014

Construction

- Annealed plain copper conductor as per IEC 60228, Class-5 (tinned on request),
- Extruded Semi-Conductive Tape / Compound,
- Extruded XLPE Insulation, (Extruded HEPR Insulation available on demand)
- Extruded Semi-Conductive Compound,
- Copper Tape,
- Insulated Cores assembled together & provided with Inner covering,
- Annealed plain Copper Braid Armour / Screen,
- Extruded Polyolefin Halogen free SHF1 Outer Sheath (HF-SHF2 on request), Colour: Red. (other colours available on request).

High Voltage Test (kV AC)	Impulse test Voltage (kV peak)
30.5	95

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

Core Identification

- 1 core: black;
- 3 core: brown, black, grey;

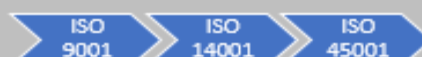


Bending Radius

Min. 12D (Single Core); Min. 9D (3 Core);

D is cable diameter

OUR ACCREDITATION



POLYCAB MARINE IEC 60092-354 8.7/15 kV ARM

Armoured Medium Voltage Cables, 8.7/15 (17) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE23CXCBEV001C035SSAXXP	1	35	4.5	26.0	1110
BCIE23CXCBEV001C050SSAXXP	1	50	4.5	27.5	1300
BCIE23CXCBEV001C070SSAXXP	1	70	4.5	29.5	1570
BCIE23CXCBEV001C095SSAXXP	1	95	4.5	32.0	1910
BCIE23CXCBEV001C120SSAXXP	1	120	4.5	33.5	2200
BCIE23CXCBEV001C150SSAXXP	1	150	4.5	35.5	2610
BCIE23CXCBEV001C185SSAXXP	1	185	4.5	37.5	3050
BCIE23CXCBEV001C240SSAXXP	1	240	4.5	40.0	3650
BCIE23CXCBEV003C050SSAXXP	3	50	4.5	55.5	4840

ELECTRICAL CHARACTERISTICS:

Conductor cross-sectional area	Max. Conductor Resistance		Current Rating for continuous service	
	at 20°C DC	at 90°C AC	1C	3C
mm ²	Ohm/km		Amps	
35	0.554	0.709	157	110
50	0.386	0.494	196	137
70	0.272	0.325	242	169
95	0.206	0.263	293	205
120	0.161	0.206	339	237
150	0.129	0.165	389	272
185	0.106	0.136	444	311
240	0.0801	0.102	522	365

*: Derating factors for No. of Cores

Conductor temperature max. +90°C, ambient temperature max +45°C

Current ratings according to IEC 60092-352 Annex A Table B.4.

Ambient temperature de-rating factors, according to IEC 60092-352 Table-3

Temperature(°C)	35	40	45	50	55	60	65	70	75
De-rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58

OUR ACCREDITATION



POLYCAB MARINE IEC 60092-354 12/20 kV ARM

Armoured Medium Voltage Cables, 12/20 (24) kV AC



Outstanding Features

- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission



Application

POLYCAB MARINE Single and Multicore Armoured Medium Voltage cable is suitable to use in fixed installation in power circuits on marine vessels and offshore platforms

Voltage Rating

12/20 (24) KV AC

Pulling force Max. 50 N/mm² / conductor

Operation Temperature

-30°C to +90°C

Short Circuit Temp. 250°C

Standard Follows

IEC 60228:2005
IEC 60092-350:2020
IEC 60092-352:2005
IEC 60092-354:2020
IEC 60092-360:2014

Construction

- Annealed plain copper conductor as per IEC 60228, Class-5 (tinned on request),
- Extruded Semi-Conductive Tape / Compound,
- Extruded XLPE Insulation, (Extruded HEPR Insulation available on demand)
- Extruded Semi-Conductive Compound,
- Copper Tape,
- Insulated Cores assembled together & provided with Inner covering,
- Annealed plain Copper Braid Armour / Screen,
- Extruded Polyolefin Halogen free SHF1 Outer Sheath (HF-SHF2 on request), Colour: Red. (other colours available on request).

High Voltage Test (kV AC)	Impulse test Voltage (kV peak)
42	125

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

Core Identification

- 1 core: black;
- 3 core: brown, black, grey;



Bending Radius

Min. 12D (Single Core); Min. 9D (3 Core);

D is cable diameter

OUR ACCREDITATION



POLYCAB MARINE IEC 60092-354 12/12 kV ARM

Armoured Medium Voltage Cables, 12/20 (24) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE19CXCBEV001C050SSAXXP	1	50	5.5	30.0	1440
BCIE19CXCBEV001C070SSAXXP	1	70	5.5	32.0	1740
BCIE19CXCBEV001C095SSAXXP	1	95	5.5	34.0	2060
BCIE19CXCBEV001C120SSAXXP	1	120	5.5	36.0	2440
BCIE19CXCBEV001C150SSAXXP	1	150	5.5	38.0	2780
BCIE19CXCBEV001C185SSAXXP	1	185	5.5	40.0	3220
BCIE19CXCBEV001C240SSAXXP	1	240	5.5	43.0	3880
BCIE19CXCBEV003C035SSAXXP	3	35	5.5	56.5	4640
BCIE19CXCBEV003C050SSAXXP	3	50	5.5	60.0	5440
BCIE19CXCBEV003C070SSAXXP	3	70	5.5	64.0	6430
BCIE19CXCBEV003C095SSAXXP	3	95	5.5	68.0	7610
BCIE19CXCBEV003C120SSAXXP	3	120	5.5	72.0	8750
BCIE19CXCBEV003C150SSAXXP	3	150	5.5	75.5	9970

ELECTRICAL CHARACTERISTICS:

Conductor cross-sectional area	Max. Conductor Resistance		Current Rating for continuous service	
	at 20°C DC	at 90°C AC	1C	3C
mm ²	Ohm/km		1.0 *	0.70 *
35	0.554	0.709	157	110
50	0.386	0.494	196	137
70	0.272	0.325	242	169
95	0.206	0.263	293	205
120	0.161	0.206	339	237
150	0.129	0.165	389	272
185	0.106	0.136	444	311
240	0.0801	0.102	522	365

*: Derating factors for No. of Cores

Conductor temperature max. +90°C, ambient temperature max +45°C

Current ratings according to IEC 60092-352 Annex A Table B.4.

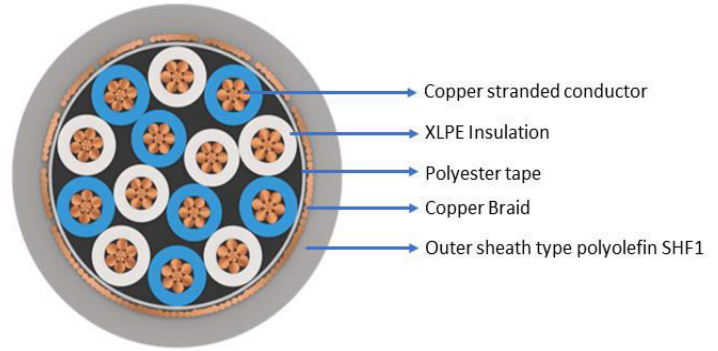
Ambient temperature de-rating factors, according to IEC 60092-352 Table-3

Temperature(°C)	35	40	45	50	55	60	65	70	75
De-rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58

OUR ACCREDITATION



Instrumentation cable XLPE Insulated Overall Braided 150/250 (300) V



- Outstanding Features**
- Halogen Free
 - Reduced Flame Propagation
 - Flame Retardant
 - Low Smoke Emission

Application

POLYCAB MARINE Single and Multipair overall Braided Instrumentation cable is suitable to use in fixed installation in instrumentation, control and communication circuits on sea vessels and offshore platforms.

Voltage Rating
150/250 (300) V

Bending Radius
Min. 8D; D is cable diameter

Operation Temperature
Max.: 90°C

Standard Follows
IEC 60228:2005
IEC 60092-350:2020
IEC 60092-376:2017
IEC 60092-360:2014

- 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), taped
 - Copper Braided,
 - Extruded Polyolefin Halogen Free SHF1 Outer Sheath (Halogen Free SHF2 on request), Colour: Black. (other colours available on request).

Test Voltage
1500V AC at (20±5)°C

Core Identification
White & Blue for Pair

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

Outer sheath colour: Black

Note: As per the application/identification requirement, other colour also available on request.



OUR ACCREDITATION

Instrumentation cable XLPE Insulated Overall Braided 150/250 (300) V

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	0.40	0.15	1.00	5.80	50
BCIE31CXCBEV002P0.5SAXXXP	2	0.5	0.40	0.15	1.00	8.10	82
BCIE31CXCBEV003P0.5SAXXXP	3	0.5	0.40	0.15	1.10	8.60	99
BCIE31CXCBEV004P0.5SAXXXP	4	0.5	0.40	0.15	1.10	9.40	119
BCIE31CXCBEV005P0.5SAXXXP	5	0.5	0.40	0.15	1.10	10.2	140
BCIE31CXCBEV006P0.5SAXXXP	6	0.5	0.40	0.15	1.20	11.1	162
BCIE31CXCBEV007P0.5SAXXXP	7	0.5	0.40	0.15	1.20	11.1	174
BCIE31CXCBEV008P0.5SAXXXP	8	0.5	0.40	0.20	1.20	12.6	213
BCIE31CXCBEV010P0.5SAXXXP	10	0.5	0.40	0.20	1.30	14.3	259
BCIE31CXCBEV012P0.5SAXXXP	12	0.5	0.40	0.20	1.30	14.8	290
BCIE31CXCBEV014P0.5SAXXXP	14	0.5	0.40	0.20	1.30	15.5	324
BCIE31CXCBEV016P0.5SAXXXP	16	0.5	0.40	0.20	1.30	16.4	360
BCIE31CXCBEV018P0.5SAXXXP	18	0.5	0.40	0.20	1.40	17.3	397
BCIE31CXCBEV019P0.5SAXXXP	19	0.5	0.40	0.20	1.40	17.3	409
BCIE31CXCBEV020P0.5SAXXXP	20	0.5	0.40	0.20	1.40	18.3	436
BCIE31CXCBEV024P0.5SAXXXP	24	0.5	0.40	0.20	1.50	20.3	515
BCIE31CXCBEV001P.75SAXXXP	1	0.75	0.50	0.15	1.00	6.7	63
BCIE31CXCBEV002P.75SAXXXP	2	0.75	0.50	0.15	1.10	9.6	110
BCIE31CXCBEV003P.75SAXXXP	3	0.75	0.50	0.15	1.10	10.2	134
BCIE31CXCBEV004P.75SAXXXP	4	0.75	0.50	0.15	1.20	11.1	163
BCIE31CXCBEV005P.75SAXXXP	5	0.75	0.50	0.20	1.20	12.3	205
BCIE31CXCBEV006P.75SAXXXP	6	0.75	0.50	0.20	1.20	13.4	238
BCIE31CXCBEV007P.75SAXXXP	7	0.75	0.50	0.20	1.20	13.4	257
BCIE31CXCBEV008P.75SAXXXP	8	0.75	0.50	0.20	1.30	15.1	297
BCIE31CXCBEV010P.75SAXXXP	10	0.75	0.50	0.20	1.40	17.2	363
BCIE31CXCBEV012P.75SAXXXP	12	0.75	0.50	0.20	1.40	17.8	408
BCIE31CXCBEV014P.75SAXXXP	14	0.75	0.50	0.20	1.40	18.7	459
BCIE31CXCBEV016P.75SAXXXP	16	0.75	0.50	0.20	1.50	19.8	512
BCIE31CXCBEV018P.75SAXXXP	18	0.75	0.50	0.20	1.50	20.9	567
BCIE31CXCBEV019P.75SAXXXP	19	0.75	0.50	0.20	1.50	20.9	586
BCIE31CXCBEV020P.75SAXXXP	20	0.75	0.50	0.20	1.60	22.2	623
BCIE31CXCBEV024P.75SAXXXP	24	0.75	0.50	0.20	1.70	24.7	739

OUR ACCREDITATION



Instrumentation cable XLPE Insulated 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)
BCIE31CXCBEV001P1.0SAXXXP	1	1	0.50	0.15	1.00	7.00	72
BCIE31CXCBEV002P1.0SAXXXP	2	1	0.50	0.15	1.10	10.2	127
BCIE31CXCBEV003P1.0SAXXXP	3	1	0.50	0.15	1.10	10.9	158
BCIE31CXCBEV004P1.0SAXXXP	4	1	0.50	0.20	1.20	12.0	205
BCIE31CXCBEV005P1.0SAXXXP	5	1	0.50	0.20	1.20	13.2	243
BCIE31CXCBEV006P1.0SAXXXP	6	1	0.50	0.20	1.30	14.4	282
BCIE31CXCBEV007P1.0SAXXXP	7	1	0.50	0.20	1.30	14.4	306
BCIE31CXCBEV008P1.0SAXXXP	8	1	0.50	0.20	1.30	16.2	355
BCIE31CXCBEV010P1.0SAXXXP	10	1	0.50	0.20	1.40	18.5	434
BCIE31CXCBEV012P1.0SAXXXP	12	1	0.50	0.20	1.40	19.1	492
BCIE31CXCBEV014P1.0SAXXXP	14	1	0.50	0.20	1.50	20.1	555
BCIE31CXCBEV016P1.0SAXXXP	16	1	0.50	0.20	1.50	21.3	621
BCIE31CXCBEV018P1.0SAXXXP	18	1	0.50	0.20	1.60	22.5	688
BCIE31CXCBEV019P1.0SAXXXP	19	1	0.50	0.20	1.60	22.5	712
BCIE31CXCBEV020P1.0SAXXXP	20	1	0.50	0.20	1.60	23.9	758
BCIE31CXCBEV024P1.0SAXXXP	24	1	0.50	0.20	1.70	26.6	900
BCIE31CXCBEV001P1.5SAXXXP	1	1.5	0.60	0.15	1.00	8.10	93
BCIE31CXCBEV002P1.5SAXXXP	2	1.5	0.60	0.20	1.20	12.1	180
BCIE31CXCBEV003P1.5SAXXXP	3	1.5	0.60	0.20	1.20	12.8	225
BCIE31CXCBEV004P1.5SAXXXP	4	1.5	0.60	0.20	1.30	14.1	277
BCIE31CXCBEV005P1.5SAXXXP	5	1.5	0.60	0.20	1.30	15.5	331
BCIE31CXCBEV006P1.5SAXXXP	6	1.5	0.60	0.20	1.40	17.0	387
BCIE31CXCBEV007P1.5SAXXXP	7	1.5	0.60	0.20	1.40	17.0	422
BCIE31CXCBEV008P1.5SAXXXP	8	1.5	0.60	0.20	1.50	19.2	490
BCIE31CXCBEV010P1.5SAXXXP	10	1.5	0.60	0.20	1.60	21.9	602
BCIE31CXCBEV012P1.5SAXXXP	12	1.5	0.60	0.20	1.60	22.7	686
BCIE31CXCBEV014P1.5SAXXXP	14	1.5	0.60	0.20	1.60	23.9	777
BCIE31CXCBEV016P1.5SAXXXP	16	1.5	0.60	0.20	1.70	25.4	872
BCIE31CXCBEV018P1.5SAXXXP	18	1.5	0.60	0.20	1.70	26.8	969
BCIE31CXCBEV019P1.5SAXXXP	19	1.5	0.60	0.20	1.70	26.8	1005
BCIE31CXCBEV020P1.5SAXXXP	20	1.5	0.60	0.20	1.80	28.5	1069
BCIE31CXCBEV024P1.5SAXXXP	24	1.5	0.60	0.20	1.90	31.8	1273

OUR ACCREDITATION



Instrumentation cable XLPE Insulated 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)
BCIE31CXCBEV001P2.5SAXXXP	1	2.5	0.60	0.15	1.10	9.00	121
BCIE31CXCBEV002P2.5SAXXXP	2	2.5	0.60	0.20	1.20	13.6	237
BCIE31CXCBEV003P2.5SAXXXP	3	2.5	0.60	0.20	1.30	14.5	303
BCIE31CXCBEV004P2.5SAXXXP	4	2.5	0.60	0.20	1.30	16.0	378
BCIE31CXCBEV005P2.5SAXXXP	5	2.5	0.60	0.20	1.40	17.6	454
BCIE31CXCBEV006P2.5SAXXXP	6	2.5	0.60	0.20	1.50	19.3	534
BCIE31CXCBEV007P2.5SAXXXP	7	2.5	0.60	0.20	1.50	19.3	588
BCIE31CXCBEV008P2.5SAXXXP	8	2.5	0.60	0.20	1.60	21.9	682
BCIE31CXCBEV010P2.5SAXXXP	10	2.5	0.60	0.20	1.70	25.0	842
BCIE31CXCBEV012P2.5SAXXXP	12	2.5	0.60	0.20	1.70	25.9	966
BCIE31CXCBEV014P2.5SAXXXP	14	2.5	0.60	0.20	1.80	27.4	1100
BCIE31CXCBEV016P2.5SAXXXP	16	2.5	0.60	0.20	1.80	29.0	1239
BCIE31CXCBEV018P2.5SAXXXP	18	2.5	0.60	0.20	1.90	30.7	1380
BCIE31CXCBEV019P2.5SAXXXP	19	2.5	0.60	0.20	1.90	30.7	1434
BCIE31CXCBEV020P2.5SAXXXP	20	2.5	0.60	0.20	1.90	32.6	1525
BCIE31CXCBEV024P2.5SAXXXP	24	2.5	0.60	0.20	2.10	36.4	1821

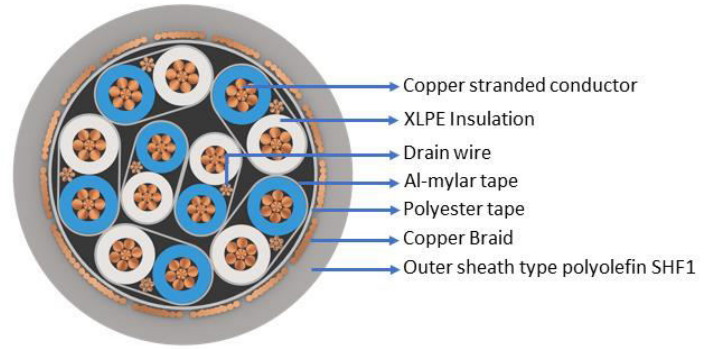
Electrical Parameter

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

OUR ACCREDITATION



Instrumentation cable XLPE Insulated Individual Shielded & Overall Braided 150/250 (300) V



Outstanding Features

- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission

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.

Voltage Rating

150/250 (300) V

Operation Temperature

Max.: 90°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,
- 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

Bending Radius

Min. 8D; D is cable diameter

Standard Follows

IEC 60228:2005
IEC 60092-350:2020
IEC 60092-376:2017
IEC 60092-360:2014

Test Voltage

1500V AC at (20±5)°C

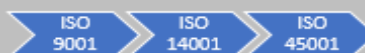
Compliance

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



Note: As per the application/identification requirement, other colour also available on request.

OUR ACCREDITATION



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	0.40	0.15	1.00	5.90	55
BCIE31CXCBEV002P0.5SAXXXP	2	0.5	0.40	0.15	1.10	8.80	99
BCIE31CXCBEV003P0.5SAXXXP	3	0.5	0.40	0.15	1.10	9.30	121
BCIE31CXCBEV004P0.5SAXXXP	4	0.5	0.40	0.15	1.10	10.2	148
BCIE31CXCBEV005P0.5SAXXXP	5	0.5	0.40	0.15	1.20	11.1	175
BCIE31CXCBEV006P0.5SAXXXP	6	0.5	0.40	0.20	1.20	12.2	215
BCIE31CXCBEV007P0.5SAXXXP	7	0.5	0.40	0.20	1.20	12.2	232
BCIE31CXCBEV008P0.5SAXXXP	8	0.5	0.40	0.20	1.20	13.7	268
BCIE31CXCBEV010P0.5SAXXXP	10	0.5	0.40	0.20	1.30	15.6	327
BCIE31CXCBEV012P0.5SAXXXP	12	0.5	0.40	0.20	1.30	16.1	368
BCIE31CXCBEV014P0.5SAXXXP	14	0.5	0.40	0.20	1.40	16.9	415
BCIE31CXCBEV016P0.5SAXXXP	16	0.5	0.40	0.20	1.40	17.9	463
BCIE31CXCBEV018P0.5SAXXXP	18	0.5	0.40	0.20	1.40	18.9	512
BCIE31CXCBEV019P0.5SAXXXP	19	0.5	0.40	0.20	1.40	18.9	529
BCIE31CXCBEV020P0.5SAXXXP	20	0.5	0.40	0.20	1.50	20.0	563
BCIE31CXCBEV024P0.5SAXXXP	24	0.5	0.40	0.20	1.60	22.3	666
BCIE31CXCBEV001P.75SAXXXP	1	0.75	0.50	0.15	1.00	6.70	69
BCIE31CXCBEV002P.75SAXXXP	2	0.75	0.50	0.15	1.10	10.3	128
BCIE31CXCBEV003P.75SAXXXP	3	0.75	0.50	0.15	1.10	11.0	159
BCIE31CXCBEV004P.75SAXXXP	4	0.75	0.50	0.20	1.20	12.2	206
BCIE31CXCBEV005P.75SAXXXP	5	0.75	0.50	0.20	1.20	13.4	244
BCIE31CXCBEV006P.75SAXXXP	6	0.75	0.50	0.20	1.30	14.6	284
BCIE31CXCBEV007P.75SAXXXP	7	0.75	0.50	0.20	1.30	14.6	308
BCIE31CXCBEV008P.75SAXXXP	8	0.75	0.50	0.20	1.40	16.5	357
BCIE31CXCBEV010P.75SAXXXP	10	0.75	0.50	0.20	1.40	18.7	437
BCIE31CXCBEV012P.75SAXXXP	12	0.75	0.50	0.20	1.50	19.4	494
BCIE31CXCBEV014P.75SAXXXP	14	0.75	0.50	0.20	1.50	20.4	557
BCIE31CXCBEV016P.75SAXXXP	16	0.75	0.50	0.20	1.50	21.6	623
BCIE31CXCBEV018P.75SAXXXP	18	0.75	0.50	0.20	1.60	22.9	691
BCIE31CXCBEV019P.75SAXXXP	19	0.75	0.50	0.20	1.60	22.9	715
BCIE31CXCBEV020P.75SAXXXP	20	0.75	0.50	0.20	1.60	24.2	761
BCIE31CXCBEV024P.75SAXXXP	24	0.75	0.50	0.20	1.70	27.0	903

OUR ACCREDITATION



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)
BCIE31CXCBEV001P1.0SAXXXP	1	1	0.50	0.15	1.00	7.10	78
BCIE31CXCBEV002P1.0SAXXXP	2	1	0.50	0.15	1.10	11.0	146
BCIE31CXCBEV003P1.0SAXXXP	3	1	0.50	0.20	1.20	11.9	195
BCIE31CXCBEV004P1.0SAXXXP	4	1	0.50	0.20	1.20	13.0	238
BCIE31CXCBEV005P1.0SAXXXP	5	1	0.50	0.20	1.30	14.3	283
BCIE31CXCBEV006P1.0SAXXXP	6	1	0.50	0.20	1.30	15.6	330
BCIE31CXCBEV007P1.0SAXXXP	7	1	0.50	0.20	1.30	15.6	360
BCIE31CXCBEV008P1.0SAXXXP	8	1	0.50	0.20	1.40	17.6	417
BCIE31CXCBEV010P1.0SAXXXP	10	1	0.50	0.20	1.50	20.1	511
BCIE31CXCBEV012P1.0SAXXXP	12	1	0.50	0.20	1.50	20.8	581
BCIE31CXCBEV014P1.0SAXXXP	14	1	0.50	0.20	1.60	22.0	656
BCIE31CXCBEV016P1.0SAXXXP	16	1	0.50	0.20	1.60	23.2	736
BCIE31CXCBEV018P1.0SAXXXP	18	1	0.50	0.20	1.70	24.6	816
BCIE31CXCBEV019P1.0SAXXXP	19	1	0.50	0.20	1.70	24.6	846
BCIE31CXCBEV020P1.0SAXXXP	20	1	0.50	0.20	1.70	26.1	900
BCIE31CXCBEV024P1.0SAXXXP	24	1	0.50	0.20	1.80	29.1	1070
BCIE31CXCBEV001P1.5SAXXXP	1	1.5	0.60	0.15	1.00	8.20	99
BCIE31CXCBEV002P1.5SAXXXP	2	1.5	0.60	0.20	1.20	13.0	203
BCIE31CXCBEV003P1.5SAXXXP	3	1.5	0.60	0.20	1.30	13.9	255
BCIE31CXCBEV004P1.5SAXXXP	4	1.5	0.60	0.20	1.30	15.3	314
BCIE31CXCBEV005P1.5SAXXXP	5	1.5	0.60	0.20	1.40	16.8	376
BCIE31CXCBEV006P1.5SAXXXP	6	1.5	0.60	0.20	1.40	18.4	440
BCIE31CXCBEV007P1.5SAXXXP	7	1.5	0.60	0.20	1.40	18.4	481
BCIE31CXCBEV008P1.5SAXXXP	8	1.5	0.60	0.20	1.50	20.9	558
BCIE31CXCBEV010P1.5SAXXXP	10	1.5	0.60	0.20	1.60	23.9	687
BCIE31CXCBEV012P1.5SAXXXP	12	1.5	0.60	0.20	1.70	24.7	784
BCIE31CXCBEV014P1.5SAXXXP	14	1.5	0.60	0.20	1.70	26.1	889
BCIE31CXCBEV016P1.5SAXXXP	16	1.5	0.60	0.20	1.80	27.6	998
BCIE31CXCBEV018P1.5SAXXXP	18	1.5	0.60	0.20	1.80	29.3	1110
BCIE31CXCBEV019P1.5SAXXXP	19	1.5	0.60	0.20	1.80	29.3	1151
BCIE31CXCBEV020P1.5SAXXXP	20	1.5	0.60	0.20	1.90	31.1	1225
BCIE31CXCBEV024P1.5SAXXXP	24	1.5	0.60	0.20	2.00	34.7	1461

OUR ACCREDITATION



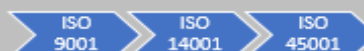
Instrumentation cable XLPE Insulated Individual Shielded & Overall Braided 150/250 (300) V

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)
BCIE31CXCBEV001P2.5SAXXP	1	2.5	0.60	0.15	1.10	9.10	128
BCIE31CXCBEV002P2.5SAXXP	2	2.5	0.60	0.20	1.30	14.7	262
BCIE31CXCBEV003P2.5SAXXP	3	2.5	0.60	0.20	1.30	15.7	336
BCIE31CXCBEV004P2.5SAXXP	4	2.5	0.60	0.20	1.40	17.3	418
BCIE31CXCBEV005P2.5SAXXP	5	2.5	0.60	0.20	1.40	19.1	503
BCIE31CXCBEV006P2.5SAXXP	6	2.5	0.60	0.20	1.50	21.0	592
BCIE31CXCBEV007P2.5SAXXP	7	2.5	0.60	0.20	1.50	21.0	652
BCIE31CXCBEV008P2.5SAXXP	8	2.5	0.60	0.20	1.60	23.8	756
BCIE31CXCBEV010P2.5SAXXP	10	2.5	0.60	0.20	1.70	27.2	935
BCIE31CXCBEV012P2.5SAXXP	12	2.5	0.60	0.20	1.80	28.2	1073
BCIE31CXCBEV014P2.5SAXXP	14	2.5	0.60	0.20	1.80	29.8	1222
BCIE31CXCBEV016P2.5SAXXP	16	2.5	0.60	0.20	1.90	31.6	1376
BCIE31CXCBEV018P2.5SAXXP	18	2.5	0.60	0.20	2.00	33.5	1533
BCIE31CXCBEV019P2.5SAXXP	19	2.5	0.60	0.20	2.00	33.5	1593
BCIE31CXCBEV020P2.5SAXXP	20	2.5	0.60	0.20	2.10	35.5	1695
BCIE31CXCBEV024P2.5SAXXP	24	2.5	0.60	0.20	2.20	39.7	2025

Electrical Parameter

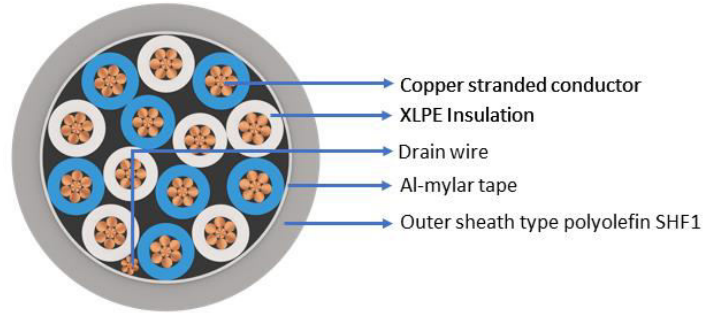
Area of Conductor	Max. DC resistance of conductor at 20°C Plain wires	Max. DC resistance of conductor at 20°C Metal coated wires	Mutual capacitance	Inductance	Inductance to resistance ratio(L/R)
Sq.mm	Ohm/km	Ohm/km	nF/Km	mH/Km	µH/Ω
0.5	40.4	41.6	< 150	1	< 25
0.75	26.0	26.3	< 150	1	< 25
1	19.2	19.3	< 150	1	< 25
1.5	12.8	12.9	< 150	1	< 40
2.5	7.86	8.02	< 150	1	< 60

OUR ACCREDITATION



POLYCAB MARINE INSTRU 300 SINGLE & MP

Instrumentation cable XLPE Insulated Overall Shielded 150/250 (300) V



Outstanding Features

- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission

Application

POLYCAB 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.

Voltage Rating

150/250 (300) V

Operation Temperature

Max.: 90°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

Note: As per the application/identification requirement, other colour also available on request.

Bending Radius

Min. 8D; D is cable diameter

Standard Follows

IEC 60228:2005
IEC 60092-350:2020
IEC 60092-376:2017
IEC 60092-360:2014

Test Voltage

1500V AC at (20±5)°C

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



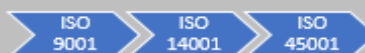
OUR ACCREDITATION



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	0.40	1.00	5.50	36
ICIE31CXUAEV002P0.5SAXXXP	2	0.5	0.40	1.00	7.70	60
ICIE31CXUAEV003P0.5SAXXXP	3	0.5	0.40	1.00	8.20	76
ICIE31CXUAEV004P0.5SAXXXP	4	0.5	0.40	1.10	9.00	93
ICIE31CXUAEV005P0.5SAXXXP	5	0.5	0.40	1.10	9.80	112
ICIE31CXUAEV006P0.5SAXXXP	6	0.5	0.40	1.10	10.7	130
ICIE31CXUAEV007P0.5SAXXXP	7	0.5	0.40	1.10	10.7	143
ICIE31CXUAEV008P0.5SAXXXP	8	0.5	0.40	1.20	12.1	165
ICIE31CXUAEV010P0.5SAXXXP	10	0.5	0.40	1.30	13.8	204
ICIE31CXUAEV012P0.5SAXXXP	12	0.5	0.40	1.30	14.2	232
ICIE31CXUAEV014P0.5SAXXXP	14	0.5	0.40	1.30	15.0	264
ICIE31CXUAEV016P0.5SAXXXP	16	0.5	0.40	1.30	15.9	296
ICIE31CXUAEV018P0.5SAXXXP	18	0.5	0.40	1.40	16.8	329
ICIE31CXUAEV019P0.5SAXXXP	19	0.5	0.40	1.40	16.8	341
ICIE31CXUAEV020P0.5SAXXXP	20	0.5	0.40	1.40	17.8	364
ICIE31CXUAEV024P0.5SAXXXP	24	0.5	0.40	1.50	19.8	434
ICIE31CXUAEV001P.75SAXXXP	1	0.75	0.50	1.00	6.30	46
ICIE31CXUAEV002P.75SAXXXP	2	0.75	0.50	1.10	9.20	83
ICIE31CXUAEV003P.75SAXXXP	3	0.75	0.50	1.10	9.80	106
ICIE31CXUAEV004P.75SAXXXP	4	0.75	0.50	1.10	10.7	132
ICIE31CXUAEV005P.75SAXXXP	5	0.75	0.50	1.20	11.8	159
ICIE31CXUAEV006P.75SAXXXP	6	0.75	0.50	1.20	12.9	187
ICIE31CXUAEV007P.75SAXXXP	7	0.75	0.50	1.20	12.9	205
ICIE31CXUAEV008P.75SAXXXP	8	0.75	0.50	1.30	14.6	238
ICIE31CXUAEV010P.75SAXXXP	10	0.75	0.50	1.40	16.7	295
ICIE31CXUAEV012P.75SAXXXP	12	0.75	0.50	1.40	17.3	338
ICIE31CXUAEV014P.75SAXXXP	14	0.75	0.50	1.40	18.2	385
ICIE31CXUAEV016P.75SAXXXP	16	0.75	0.50	1.50	19.3	434
ICIE31CXUAEV018P.75SAXXXP	18	0.75	0.50	1.50	20.4	483
ICIE31CXUAEV019P.75SAXXXP	19	0.75	0.50	1.50	20.4	502
ICIE31CXUAEV020P.75SAXXXP	20	0.75	0.50	1.50	21.7	535
ICIE31CXUAEV024P.75SAXXXP	24	0.75	0.50	1.60	24.2	639

OUR ACCREDITATION



Instrumentation cable XLPE Insulated Overall Shielded 150/250 (300) V

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)
ICIE31CXUAEV001P1.0SAXXXP	1	1	0.50	1.00	6.70	54
ICIE31CXUAEV002P1.0SAXXXP	2	1	0.50	1.10	9.80	98
ICIE31CXUAEV003P1.0SAXXXP	3	1	0.50	1.10	10.5	127
ICIE31CXUAEV004P1.0SAXXXP	4	1	0.50	1.20	11.5	159
ICIE31CXUAEV005P1.0SAXXXP	5	1	0.50	1.20	12.7	192
ICIE31CXUAEV006P1.0SAXXXP	6	1	0.50	1.30	13.9	227
ICIE31CXUAEV007P1.0SAXXXP	7	1	0.50	1.30	13.9	251
ICIE31CXUAEV008P1.0SAXXXP	8	1	0.50	1.30	15.7	291
ICIE31CXUAEV010P1.0SAXXXP	10	1	0.50	1.40	18.0	361
ICIE31CXUAEV012P1.0SAXXXP	12	1	0.50	1.40	18.6	416
ICIE31CXUAEV014P1.0SAXXXP	14	1	0.50	1.50	19.6	475
ICIE31CXUAEV016P1.0SAXXXP	16	1	0.50	1.50	20.8	536
ICIE31CXUAEV018P1.0SAXXXP	18	1	0.50	1.60	22.0	598
ICIE31CXUAEV019P1.0SAXXXP	19	1	0.50	1.60	22.0	622
ICIE31CXUAEV020P1.0SAXXXP	20	1	0.50	1.60	23.4	662
ICIE31CXUAEV024P1.0SAXXXP	24	1	0.50	1.70	26.1	792
ICIE31CXUAEV001P1.5SAXXXP	1	1.5	0.60	1.00	7.70	71
ICIE31CXUAEV002P1.5SAXXXP	2	1.5	0.60	1.20	11.5	135
ICIE31CXUAEV003P1.5SAXXXP	3	1.5	0.60	1.20	12.3	176
ICIE31CXUAEV004P1.5SAXXXP	4	1.5	0.60	1.20	13.6	223
ICIE31CXUAEV005P1.5SAXXXP	5	1.5	0.60	1.30	15.0	271
ICIE31CXUAEV006P1.5SAXXXP	6	1.5	0.60	1.40	16.5	320
ICIE31CXUAEV007P1.5SAXXXP	7	1.5	0.60	1.40	16.5	356
ICIE31CXUAEV008P1.5SAXXXP	8	1.5	0.60	1.40	18.7	414
ICIE31CXUAEV010P1.5SAXXXP	10	1.5	0.60	1.50	21.4	515
ICIE31CXUAEV012P1.5SAXXXP	12	1.5	0.60	1.60	22.2	595
ICIE31CXUAEV014P1.5SAXXXP	14	1.5	0.60	1.60	23.4	681
ICIE31CXUAEV016P1.5SAXXXP	16	1.5	0.60	1.70	24.8	770
ICIE31CXUAEV018P1.5SAXXXP	18	1.5	0.60	1.70	26.3	860
ICIE31CXUAEV019P1.5SAXXXP	19	1.5	0.60	1.70	26.3	896
ICIE31CXUAEV020P1.5SAXXXP	20	1.5	0.60	1.80	28.0	954
ICIE31CXUAEV024P1.5SAXXXP	24	1.5	0.60	1.90	31.3	1144

OUR ACCREDITATION



Instrumentation cable XLPE Insulated Overall Shielded 150/250 (300) V

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)
ICIE31CXUAEV001P2.5SAXXXP	1	2.5	0.60	1.10	8.60	97
ICIE31CXUAEV002P2.5SAXXXP	2	2.5	0.60	1.20	13.1	185
ICIE31CXUAEV003P2.5SAXXXP	3	2.5	0.60	1.30	14.0	247
ICIE31CXUAEV004P2.5SAXXXP	4	2.5	0.60	1.30	15.5	315
ICIE31CXUAEV005P2.5SAXXXP	5	2.5	0.60	1.40	17.1	385
ICIE31CXUAEV006P2.5SAXXXP	6	2.5	0.60	1.40	18.8	457
ICIE31CXUAEV007P2.5SAXXXP	7	2.5	0.60	1.40	18.8	511
ICIE31CXUAEV008P2.5SAXXXP	8	2.5	0.60	1.50	21.4	594
ICIE31CXUAEV010P2.5SAXXXP	10	2.5	0.60	1.60	24.5	741
ICIE31CXUAEV012P2.5SAXXXP	12	2.5	0.60	1.70	25.4	862
ICIE31CXUAEV014P2.5SAXXXP	14	2.5	0.60	1.70	26.8	989
ICIE31CXUAEV016P2.5SAXXXP	16	2.5	0.60	1.80	28.5	1121
ICIE31CXUAEV018P2.5SAXXXP	18	2.5	0.60	1.90	30.2	1255
ICIE31CXUAEV019P2.5SAXXXP	19	2.5	0.60	1.90	30.2	1309
ICIE31CXUAEV020P2.5SAXXXP	20	2.5	0.60	1.90	32.1	1392
ICIE31CXUAEV024P2.5SAXXXP	24	2.5	0.60	2.10	35.9	1671

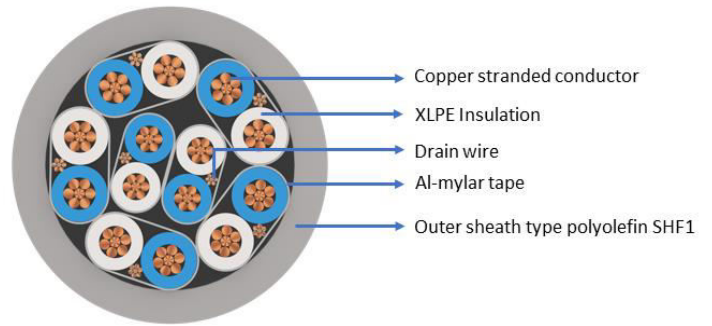
Electrical Parameter

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

OUR ACCREDITATION



Instrumentation cable XLPE Insulated Individual Shielded 150/250 (300) V



Outstanding Features

- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission

Application

POLYCAB MARINE Single and Multipair Individual shielded Instrumentation cable is suitable to use in fixed installation in instrumentation, control and communication circuits on sea vessels and offshore platforms.

Voltage Rating

150/250 (300) V

Operation Temperature

Max.: 90°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,
- Pairs shielded with Al.Mylar tape along with drain wire,
- Individual shielded pairs assembled together (filler optional), taped
- 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

Note: As per the application/identification requirement, other colour also available on request.

Bending Radius

Min. 8D; D is cable diameter

Standard Follows

IEC 60228:2005
IEC 60092-350:2020
IEC 60092-376:2017
IEC 60092-360:2014

Test Voltage

1500V AC at (20±5)°C

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 ACCREDITATION



Instrumentation cable XLPE Insulated Individual Shielded 150/250 (300) V

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)
ICIE31CXUAEV001P0.5SAXXP	1	0.5	0.40	1.00	5.60	41
ICIE31CXUAEV002P0.5SAXXP	2	0.5	0.40	1.10	8.40	75
ICIE31CXUAEV003P0.5SAXXP	3	0.5	0.40	1.10	8.90	96
ICIE31CXUAEV004P0.5SAXXP	4	0.5	0.40	1.10	9.80	119
ICIE31CXUAEV005P0.5SAXXP	5	0.5	0.40	1.10	10.7	144
ICIE31CXUAEV006P0.5SAXXP	6	0.5	0.40	1.20	11.7	169
ICIE31CXUAEV007P0.5SAXXP	7	0.5	0.40	1.20	11.7	186
ICIE31CXUAEV008P0.5SAXXP	8	0.5	0.40	1.20	13.2	216
ICIE31CXUAEV010P0.5SAXXP	10	0.5	0.40	1.30	15.1	266
ICIE31CXUAEV012P0.5SAXXP	12	0.5	0.40	1.30	15.6	306
ICIE31CXUAEV014P0.5SAXXP	14	0.5	0.40	1.30	16.4	348
ICIE31CXUAEV016P0.5SAXXP	16	0.5	0.40	1.40	17.4	392
ICIE31CXUAEV018P0.5SAXXP	18	0.5	0.40	1.40	18.4	437
ICIE31CXUAEV019P0.5SAXXP	19	0.5	0.40	1.40	18.4	455
ICIE31CXUAEV020P0.5SAXXP	20	0.5	0.40	1.50	19.5	483
ICIE31CXUAEV024P0.5SAXXP	24	0.5	0.40	1.50	21.8	578
ICIE31CXUAEV001P.75SAXXP	1	0.75	0.50	1.00	6.40	52
ICIE31CXUAEV002P.75SAXXP	2	0.75	0.50	1.10	10.0	99
ICIE31CXUAEV003P.75SAXXP	3	0.75	0.50	1.10	10.6	128
ICIE31CXUAEV004P.75SAXXP	4	0.75	0.50	1.20	11.7	160
ICIE31CXUAEV005P.75SAXXP	5	0.75	0.50	1.20	12.9	193
ICIE31CXUAEV006P.75SAXXP	6	0.75	0.50	1.30	14.1	228
ICIE31CXUAEV007P.75SAXXP	7	0.75	0.50	1.30	14.1	252
ICIE31CXUAEV008P.75SAXXP	8	0.75	0.50	1.30	16.0	293
ICIE31CXUAEV010P.75SAXXP	10	0.75	0.50	1.40	18.2	363
ICIE31CXUAEV012P.75SAXXP	12	0.75	0.50	1.40	18.9	417
ICIE31CXUAEV014P.75SAXXP	14	0.75	0.50	1.50	19.9	476
ICIE31CXUAEV016P.75SAXXP	16	0.75	0.50	1.50	21.1	537
ICIE31CXUAEV018P.75SAXXP	18	0.75	0.50	1.60	22.4	599
ICIE31CXUAEV019P.75SAXXP	19	0.75	0.50	1.60	22.4	623
ICIE31CXUAEV020P.75SAXXP	20	0.75	0.50	1.60	23.7	664
ICIE31CXUAEV024P.75SAXXP	24	0.75	0.50	1.70	26.5	794

OUR ACCREDITATION



Instrumentation cable XLPE Insulated Individual Shielded 150/250 (300) V

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)
ICIE31CXUAEV001P1.0SAXXXP	1	1	0.50	1.00	6.80	59
ICIE31CXUAEV002P1.0SAXXXP	2	1	0.50	1.10	10.7	115
ICIE31CXUAEV003P1.0SAXXXP	3	1	0.50	1.20	11.4	150
ICIE31CXUAEV004P1.0SAXXXP	4	1	0.50	1.20	12.5	189
ICIE31CXUAEV005P1.0SAXXXP	5	1	0.50	1.30	13.8	228
ICIE31CXUAEV006P1.0SAXXXP	6	1	0.50	1.30	15.1	270
ICIE31CXUAEV007P1.0SAXXXP	7	1	0.50	1.30	15.1	299
ICIE31CXUAEV008P1.0SAXXXP	8	1	0.50	1.40	17.2	347
ICIE31CXUAEV010P1.0SAXXXP	10	1	0.50	1.50	19.6	431
ICIE31CXUAEV012P1.0SAXXXP	12	1	0.50	1.50	20.3	498
ICIE31CXUAEV014P1.0SAXXXP	14	1	0.50	1.50	21.5	569
ICIE31CXUAEV016P1.0SAXXXP	16	1	0.50	1.60	22.8	643
ICIE31CXUAEV018P1.0SAXXXP	18	1	0.50	1.60	24.1	718
ICIE31CXUAEV019P1.0SAXXXP	19	1	0.50	1.60	24.1	747
ICIE31CXUAEV020P1.0SAXXXP	20	1	0.50	1.70	25.6	795
ICIE31CXUAEV024P1.0SAXXXP	24	1	0.50	1.80	28.6	953
ICIE31CXUAEV001P1.5SAXXXP	1	1.5	0.60	1.00	7.80	78
ICIE31CXUAEV002P1.5SAXXXP	2	1.5	0.60	1.20	12.5	153
ICIE31CXUAEV003P1.5SAXXXP	3	1.5	0.60	1.20	13.4	202
ICIE31CXUAEV004P1.5SAXXXP	4	1.5	0.60	1.30	14.8	255
ICIE31CXUAEV005P1.5SAXXXP	5	1.5	0.60	1.30	16.3	310
ICIE31CXUAEV006P1.5SAXXXP	6	1.5	0.60	1.40	18.0	367
ICIE31CXUAEV007P1.5SAXXXP	7	1.5	0.60	1.40	18.0	408
ICIE31CXUAEV008P1.5SAXXXP	8	1.5	0.60	1.50	20.4	475
ICIE31CXUAEV010P1.5SAXXXP	10	1.5	0.60	1.60	23.4	592
ICIE31CXUAEV012P1.5SAXXXP	12	1.5	0.60	1.60	24.2	685
ICIE31CXUAEV014P1.5SAXXXP	14	1.5	0.60	1.70	25.6	784
ICIE31CXUAEV016P1.5SAXXXP	16	1.5	0.60	1.70	27.2	887
ICIE31CXUAEV018P1.5SAXXXP	18	1.5	0.60	1.80	28.8	991
ICIE31CXUAEV019P1.5SAXXXP	19	1.5	0.60	1.80	28.8	1032
ICIE31CXUAEV020P1.5SAXXXP	20	1.5	0.60	1.90	30.6	1099
ICIE31CXUAEV024P1.5SAXXXP	24	1.5	0.60	2.00	34.2	1319

OUR ACCREDITATION



Instrumentation cable XLPE Insulated Individual Shielded 150/250 (300) V

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)
ICIE31CXUAEV001P2.5SAXXXP	1	2.5	0.60	1.10	8.70	103
ICIE31CXUAEV002P2.5SAXXXP	2	2.5	0.60	1.30	14.2	206
ICIE31CXUAEV003P2.5SAXXXP	3	2.5	0.60	1.30	15.2	275
ICIE31CXUAEV004P2.5SAXXXP	4	2.5	0.60	1.40	16.8	350
ICIE31CXUAEV005P2.5SAXXXP	5	2.5	0.60	1.40	18.6	428
ICIE31CXUAEV006P2.5SAXXXP	6	2.5	0.60	1.50	20.5	508
ICIE31CXUAEV007P2.5SAXXXP	7	2.5	0.60	1.50	20.5	568
ICIE31CXUAEV008P2.5SAXXXP	8	2.5	0.60	1.60	23.3	661
ICIE31CXUAEV010P2.5SAXXXP	10	2.5	0.60	1.70	26.7	825
ICIE31CXUAEV012P2.5SAXXXP	12	2.5	0.60	1.80	27.7	959
ICIE31CXUAEV014P2.5SAXXXP	14	2.5	0.60	1.80	29.3	1101
ICIE31CXUAEV016P2.5SAXXXP	16	2.5	0.60	1.90	31.1	1248
ICIE31CXUAEV018P2.5SAXXXP	18	2.5	0.60	2.00	33.0	1397
ICIE31CXUAEV019P2.5SAXXXP	19	2.5	0.60	2.00	33.0	1457
ICIE31CXUAEV020P2.5SAXXXP	20	2.5	0.60	2.00	35.0	1550
ICIE31CXUAEV024P2.5SAXXXP	24	2.5	0.60	2.20	39.2	1862

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

OUR ACCREDITATION

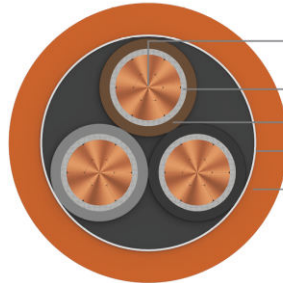


Fire Survival Unarmoured Power and Control Cable, 0.6/1.0 (1.2) kV AC



Outstanding Features

- Fire Resistant
- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission



- Stranded Copper Conductor
- Mica Glass Tape
- Extruded XLPE Insulation
- Binder Tape / Inner Sheath
- Extruded Polyolefin Halogen Free SHF1 Outer Sheath

Application

POLYCAB MARINE Single and Multicore core Fire Survival unarmoured Power and Control cable is suitable to use in fixed installation in power, lighting, control circuits on sea vessels and offshore platforms where peak / transient voltages occurs during motor operations.

Voltage Rating

0.6/1.0 (1.2) KV AC

Operation Temperature

-30°C to +90°C

Short Circuit Temp. 250°C

Construction

- Annealed plain stranded copper conductor as per IEC 60228, Class-2 / Class-5 (tinned on request),
- Mica Glass taped,
- Extruded XLPE Insulation, (Extruded HEPR Insulation available on demand)
- Insulated Cores assembled together, (fillers/tape/inner sheath optional)
- Extruded Polyolefin Halogen Free SHF1 Outer Sheath (Halogen Free SHF2 on request), Colour: Black. (other colours available on request).

Core Identification

- 1 core: black;
- 2 core: brown, blue;
- 3 core: brown, black, grey;
- 3G core: brown, blue, green/yellow;
- 4 core: brown, black, grey, blue;
- 4G core: brown, black, grey, green/yellow;
- 5 core: brown, black, grey, blue, black
- 5G core: brown, black, grey, blue, green/yellow;
- 7 to 37C core: Black/White cores with number printing
- 7 to 37GC core: Black/White cores with number printing except last core i.e. Green-Yellow

Bending Radius

Min. 6D; D is cable diameter

Pulling force Max. 50 N/mm²/conductor

Standard Follows

IEC 60228:2005
IEC 60092-350:2020
IEC 60092-353:2016
IEC 60092-360:2014

Test Voltage

3500V AC at (20±5)°C

Compliance

Fire Resistant	IEC 60331-1 or IEC 60331-
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 ACCREDITATION



NABL

ABS

IRS

POLYCAB MARINE IEC 60092-353 0.6/1.0 kV FS UAR

Fire Survival Unarmoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
FSIE07CXUAEV001C1.5SAXXXP	1	1.5	0.70	5.40	50
FSIE07CXUAEV001C2.5SAXXXP	1	2.5	0.70	5.90	60
FSIE07CXUAEV001C4.0SAXXXP	1	4	0.70	6.40	80
FSIE07CXUAEV001C6.0SAXXXP	1	6	0.70	7.00	105
FSIE07CXUAEV001C010SAXXXP	1	10	0.70	7.90	150
FSIE07CXUAEV001C016SAXXXP	1	16	0.70	9.00	215
FSIE07CXUAEV001C025SAXXXP	1	25	0.90	10.9	325
FSIE07CXUAEV001C035SAXXXP	1	35	0.90	12.0	415
FSIE07CXUAEV001C050SAXXXP	1	50	1.00	13.9	590
FSIE07CXUAEV001C070SAXXXP	1	70	1.10	16.0	800
FSIE07CXUAEV001C095SAXXXP	1	95	1.10	17.8	1055
FSIE07CXUAEV001C120SAXXXP	1	120	1.20	19.7	1315
FSIE07CXUAEV001C150SAXXXP	1	150	1.40	22.0	1635
FSIE07CXUAEV001C185SAXXXP	1	185	1.60	24.1	1995
FSIE07CXUAEV001C240SAXXXP	1	240	1.70	26.9	2550
FSIE07CXUAEV001C300SAXXXP	1	300	1.80	29.7	3160
FSIE07CXUAEV002C1.5SAXXXP	2	1.5	0.70	8.90	105
FSIE07CXUAEV002C2.5SAXXXP	2	2.5	0.70	9.90	135
FSIE07CXUAEV002C4.0SAXXXP	2	4	0.70	11.1	185
FSIE07CXUAEV002C6.0SAXXXP	2	6	0.70	12.2	235
FSIE07CXUAEV002C010SAXXXP	2	10	0.70	14.2	345
FSIE07CXUAEV002C016SAXXXP	2	16	0.70	16.5	500
FSIE07CXUAEV002C025SAXXXP	2	25	0.90	20.2	755
FSIE07CXUAEV002C035SAXXXP	2	35	0.90	22.7	995
FSIE07CXUAEV002C050SAXXXP	2	50	1.00	26.3	1225
FSIE07CXUAEV002C070SAXXXP	2	70	1.10	30.1	1655
FSIE07CXUAEV002C095SAXXXP	2	95	1.10	34.1	2200
FSIE07CXUAEV002C120SAXXXP	2	120	1.20	37.8	2740
FSIE07CXUAEV002C150SAXXXP	2	150	1.40	42.2	3390
FSIE07CXUAEV002C185SAXXXP	2	185	1.60	46.8	4170
FSIE07CXUAEV002C240SAXXXP	2	240	1.70	52.5	5330
FSIE07CXUAEV002C300SAXXXP	2	300	1.80	57.8	6570

OUR ACCREDITATION



Fire Survival Unarmoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
FSIE07CXUAEV002C050SAXXP	2	50 *	1.00	20.5	1145
FSIE07CXUAEV002C070SAXXP	2	70 *	1.10	23.4	1560
FSIE07CXUAEV002C095SAXXP	2	95 *	1.10	26.2	2070
FSIE07CXUAEV002C120SAXXP	2	120 *	1.20	28.1	2575
FSIE07CXUAEV002C150SAXXP	2	150 *	1.40	31.2	3190
FSIE07CXUAEV002C185SAXXP	2	185 *	1.60	34.7	3940
FSIE07CXUAEV002C240SAXXP	2	240 *	1.70	38.6	5035
FSIE07CXUAEV002C300SAXXP	2	300 *	1.80	42.4	6250
FSIE07CXUAEV003C1.5SAXXP	3	1.5	0.70	9.40	120
FSIE07CXUAEV003C2.5SAXXP	3	2.5	0.70	10.50	160
FSIE07CXUAEV003C4.0SAXXP	3	4	0.70	11.8	220
FSIE07CXUAEV003C6.0SAXXP	3	6	0.70	13.1	290
FSIE07CXUAEV003C010SAXXP	3	10	0.70	15.2	430
FSIE07CXUAEV003C016SAXXP	3	16	0.70	17.6	625
FSIE07CXUAEV003C025SAXXP	3	25	0.90	21.6	950
FSIE07CXUAEV003C035SAXXP	3	35	0.90	24.3	1265
FSIE07CXUAEV003C050SAXXP	3	50	1.00	28.3	1770
FSIE07CXUAEV003C070SAXXP	3	70	1.10	32.5	2395
FSIE07CXUAEV003C095SAXXP	3	95	1.10	36.6	3170
FSIE07CXUAEV003C120SAXXP	3	120	1.20	40.7	3970
FSIE07CXUAEV003C150SAXXP	3	150	1.40	45.4	4925
FSIE07CXUAEV003C185SAXXP	3	185	1.60	50.4	6055
FSIE07CXUAEV003C240SAXXP	3	240	1.70	56.5	7750
FSIE07CXUAEV003C300SAXXP	3	300	1.80	62.4	9605
FSIE07CXUAEV003C035SAXXP	3	35 *	0.90	20.0	1185
FSIE07CXUAEV003C050SAXXP	3	50 *	1.00	23.3	1680
FSIE07CXUAEV003C070SAXXP	3	70 *	1.10	26.6	2300
FSIE07CXUAEV003C095SAXXP	3	95 *	1.10	29.7	3035
FSIE07CXUAEV003C120SAXXP	3	120 *	1.20	32.8	3820
FSIE07CXUAEV003C150SAXXP	3	150 *	1.40	36.4	4730
FSIE07CXUAEV003C185SAXXP	3	185 *	1.60	40.5	5840
FSIE07CXUAEV003C240SAXXP	3	240 *	1.70	45.2	7465
FSIE07CXUAEV003C300SAXXP	3	300 *	1.80	49.8	9295

Note: * Sector shaped conductor

OUR ACCREDITATION



POLYCAB MARINE IEC 60092-353 0.6/1.0 kV FS UAR

Fire Survival Unarmoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
FSIE07CXUAEV004C1.5SAXXXP	4	1.5	0.70	10.5	155
FSIE07CXUAEV004C2.5SAXXXP	4	2.5	0.70	11.5	200
FSIE07CXUAEV004C4.0SAXXXP	4	4	0.70	13.1	285
FSIE07CXUAEV004C6.0SAXXXP	4	6	0.70	14.4	370
FSIE07CXUAEV004C010SAXXXP	4	10	0.70	16.9	560
FSIE07CXUAEV004C016SAXXXP	4	16	0.70	19.7	820
FSIE07CXUAEV004C025SAXXXP	4	25	0.90	24.0	1250
FSIE07CXUAEV004C035SAXXXP	4	35	0.90	27.0	1660
FSIE07CXUAEV004C050SAXXXP	4	50	1.00	31.5	2320
FSIE07CXUAEV004C070SAXXXP	4	70	1.10	36.2	3150
FSIE07CXUAEV004C095SAXXXP	4	95	1.10	40.9	4190
FSIE07CXUAEV004C120SAXXXP	4	120	1.20	45.3	5225
FSIE07CXUAEV004C035SAXXXP	4	35 *	0.90	24.1	1740
FSIE07CXUAEV004C050SAXXXP	4	50 *	1.00	28.2	2460
FSIE07CXUAEV004C070SAXXXP	4	70 *	1.10	32.3	3355
FSIE07CXUAEV004C095SAXXXP	4	95 *	1.10	36.4	4435
FSIE07CXUAEV004C120SAXXXP	4	120 *	1.20	39.0	5095
FSIE07CXUAEV005C4.0SAXXXP	5	4	0.70	14.4	350
FSIE07CXUAEV005C6.0SAXXXP	5	6	0.70	16.0	470
FSIE07CXUAEV005C010SAXXXP	5	10	0.70	18.6	705
FSIE07CXUAEV005C016SAXXXP	5	16	0.70	21.6	1040
FSIE07CXUAEV005C025SAXXXP	5	25	0.90	26.7	1600
FSIE07CXUAEV005C035SAXXXP	5	35	0.90	30.0	2130
FSIE07CXUAEV005C050SAXXXP	5	50	1.00	34.9	2980
FSIE07CXUAEV005C070SAXXXP	5	70	1.10	40.3	4065
FSIE07CXUAEV005C095SAXXXP	5	95	1.10	45.3	5385
FSIE07CXUAEV005C1.5SAXXXP	5	1.5	0.70	11.5	185
FSIE07CXUAEV007C1.5SAXXXP	7	1.5	0.70	12.5	240
FSIE07CXUAEV010C1.5SAXXXP	10	1.5	0.70	16.2	340
FSIE07CXUAEV012C1.5SAXXXP	12	1.5	0.70	16.9	400
FSIE07CXUAEV014C1.5SAXXXP	14	1.5	0.70	17.8	455
FSIE07CXUAEV016C1.5SAXXXP	16	1.5	0.70	18.8	515
FSIE07CXUAEV019C1.5SAXXXP	19	1.5	0.70	20.0	605
FSIE07CXUAEV024C1.5SAXXXP	24	1.5	0.70	23.6	765
FSIE07CXUAEV027C1.5SAXXXP	27	1.5	0.70	24.1	845
FSIE07CXUAEV037C1.5SAXXXP	37	1.5	0.70	27.3	1130

Note: * Sector shaped conductor

OUR ACCREDITATION



DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
FSIE07CXUAEV005C2.5SAXXXP	5	2.5	0.70	12.6	245
FSIE07CXUAEV007C2.5SAXXXP	7	2.5	0.70	14.0	325
FSIE07CXUAEV010C2.5SAXXXP	10	2.5	0.70	18.0	465
FSIE07CXUAEV012C2.5SAXXXP	12	2.5	0.70	18.7	540
FSIE07CXUAEV014C2.5SAXXXP	14	2.5	0.70	19.8	625
FSIE07CXUAEV016C2.5SAXXXP	16	2.5	0.70	20.9	705
FSIE07CXUAEV019C2.5SAXXXP	19	2.5	0.70	22.1	820
FSIE07CXUAEV024C2.5SAXXXP	24	2.5	0.70	26.4	1050
FSIE07CXUAEV027C2.5SAXXXP	27	2.5	0.70	26.9	1160
FSIE07CXUAEV030C2.5SAXXXP	30	2.5	0.70	27.9	1275
FSIE07CXUAEV037C2.5SAXXXP	37	2.5	0.70	30.4	1555

OUR ACCREDITATION

POLYCAB MARINE IEC 60092-353 0.6/1.0 kV FS UAR

Fire Survival Unarmoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

ELECTRICAL CHARACTERISTICS:

Conductor cross-sectional area	Max. Conductor Resistance of Class-2		Current Rating for continuous service Conductor temperature max. +90°C, ambient temperature max +45°C									
	at 20°C DC	at 90°C AC	1C	2C	3C	4C	5C	7C	12C	19C	27C	37C
			1.0 *	0.85 *	0.70 *	0.70 *	0.58 *	0.52 *	0.44 *	0.37 *	0.33 *	0.90 *
mm ²	Ohm/km		Amps									
1.5	12.1	15.4	23	20	16	16	13	12	10	9	8	7
2.5	7.41	9.45	30	26	21	21	18	16	13	11	10	9
4	4.61	5.88	41	34	28	28	24	-	-	-	-	-
6	3.08	3.93	52	44	36	36	30	-	-	-	-	-
10	1.83	2.33	72	61	50	50	42	-	-	-	-	-
16	1.15	1.47	96	82	67	67	56	-	-	-	-	-
25	0.727	0.927	127	108	89	89	74	-	-	-	-	-
35	0.524	0.668	157	133	110	110	92	-	-	-	-	-
50	0.387	0.493	196	167	137	137	-	-	-	-	-	-
70	0.268	0.342	242	206	169	169	-	-	-	-	-	-
95	0.193	0.246	293	249	205	205	-	-	-	-	-	-
120	0.153	0.195	339	288	237	237	-	-	-	-	-	-
150	0.124	0.158	389	331	272	272	-	-	-	-	-	-
185	0.0991	0.126	444	377	311	311	-	-	-	-	-	-
240	0.0754	0.0961	522	444	365	365	-	-	-	-	-	-
300	0.0601	0.0766	601	511	421	421	-	-	-	-	-	-

Current Ratings are in accordance with IEC 60029-352 Table B.4.

Ambient temperature de-rating factors, according to IEC 60092-352 Table-3

Temperature (°C)	35	40	45	50	55	60	65	70	75
De-rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58

OUR ACCREDITATION

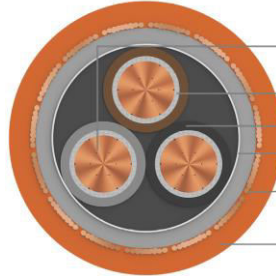


Fire Survival Armoured Power and Control Cable, 0.6/1.0 (1.2) kV AC



Outstanding Features

- Fire Resistant
- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission



- Stranded Copper Conductor
- Mica Glass Tape
- Extruded XLPE Insulation
- Binder Tape / Inner Sheath
- Copper Braid
- Extruded Polyolefin Halogen Free SHF1 Outer Sheath

Application

POLYCAB MARINE Single and Multicore core Armoured Fire Survival Power and Control cable is suitable to use in fixed installation in power, lighting and control circuits on sea vessels and offshore platforms.

Voltage Rating

0.6/1.0 (1.2) KV AC

Operation Temperature

-30°C to +90°C

Short Circuit Temp. 250°C

Bending Radius

Min. 6D; (Min. 8D for sector shaped conductors);
D is cable diameter

Pulling force Max. 50 N/mm² / conductor

Construction

- Annealed plain stranded copper conductor as per IEC 60228, Class-2 / Class-5 (tinned on request),
- Mica Glass Taped,
- Extruded XLPE Insulation, (Extruded HEPR Insulation available on demand)
- Insulated Cores assembled together, (Inner covering / Binding tape / fillers optional)
- Annealed plain Copper Braid Armour / Screen,
- Extruded Polyolefin HF-SHF1 Outer Sheath (HF-SHF2 on request), Colour: Black. (other colours available on request).

Standard Follows

IEC 60228:2005
IEC 60092-350:2020
IEC 60092-352:
IEC 60092-353:2016
IEC 60092-360:2014

Test Voltage

3500V AC at (20±5)°C

Compliance

Fire Resistant	IEC 60331-1 or IEC 60331-
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

Core Identification

- 1 core: black;
- 2 core: brown, blue;
- 3 core: brown, black, grey;
- 3G core: brown, blue, green/yellow;
- 4 core: brown, black, grey, blue;
- 4G core: brown, black, grey, green/yellow;
- 5 core: brown, black, grey, blue, black
- 5G core: brown, black, grey, blue, green/yellow;
- 7 to 37C core: Black/White cores with number printing
- 7 to 37GC core: Black/White cores with number printing except last core i.e. Green-Yellow



OUR ACCREDITATION



POLYCAB MARINE IEC 60092-353 0.6/1.0 kV FS ARM

Fire Survival Armoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Braid Wire Dia. (mm)	Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE07CXCBEV001C1.5SAXXP	1	1.5	0.70	0.20	6.40	70
BCIE07CXCBEV001C2.5SAXXP	1	2.5	0.70	0.20	6.90	85
BCIE07CXCBEV001C4.0SAXXP	1	4	0.70	0.20	7.40	105
BCIE07CXCBEV001C6.0SAXXP	1	6	0.70	0.20	8.00	130
BCIE07CXCBEV001C010SAXXP	1	10	0.70	0.20	8.90	180
BCIE07CXCBEV001C016SAXXP	1	16	0.70	0.20	10.2	255
BCIE07CXCBEV001C025SAXXP	1	25	0.90	0.20	11.9	370
BCIE07CXCBEV001C035SAXXP	1	35	0.90	0.20	13.2	480
BCIE07CXCBEV001C050SAXXP	1	50	1.00	0.20	14.9	645
BCIE07CXCBEV001C070SAXXP	1	70	1.10	0.30	17.5	905
BCIE07CXCBEV001C095SAXXP	1	95	1.10	0.30	19.5	1180
BCIE07CXCBEV001C120SAXXP	1	120	1.20	0.30	21.4	1455
BCIE07CXCBEV001C150SAXXP	1	150	1.40	0.30	23.5	1780
BCIE07CXCBEV001C185SAXXP	1	185	1.60	0.30	25.8	2165
BCIE07CXCBEV001C240SAXXP	1	240	1.70	0.30	28.6	2745
BCIE07CXCBEV001C300SAXXP	1	300	1.80	0.30	31.4	3370
BCIE07CXCBEV002C1.5SAXXP	2	1.5	0.70	0.20	10.2	145
BCIE07CXCBEV002C2.5SAXXP	2	2.5	0.70	0.20	11.0	165
BCIE07CXCBEV002C4.0SAXXP	2	4	0.70	0.20	12.1	210
BCIE07CXCBEV002C6.0SAXXP	2	6	0.70	0.20	13.4	285
BCIE07CXCBEV002C010SAXXP	2	10	0.70	0.20	15.3	395
BCIE07CXCBEV002C016SAXXP	2	16	0.70	0.30	18.1	595
BCIE07CXCBEV002C025SAXXP	2	25	0.90	0.30	22.0	875
BCIE07CXCBEV002C035SAXXP	2	35	0.90	0.30	24.3	1115
BCIE07CXCBEV002C050SAXXP	2	50	1.00	0.30	28.0	1515
BCIE07CXCBEV002C070SAXXP	2	70	1.10	0.30	32.1	2025
BCIE07CXCBEV002C095SAXXP	2	95	1.10	0.30	35.9	2615
BCIE07CXCBEV002C120SAXXP	2	120	1.20	0.30	39.6	3220
BCIE07CXCBEV002C150SAXXP	2	150	1.40	0.40	44.7	4085
BCIE07CXCBEV002C185SAXXP	2	185	1.60	0.40	49.3	4970
BCIE07CXCBEV002C240SAXXP	2	240	1.70	0.40	55.0	6275

OUR ACCREDITATION

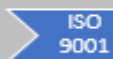


Fire Survival Armoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Braid Wire Dia. (mm)	Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE07CXCBEV003C1.5SAXXP	3	1.5	0.70	0.20	10.7	165
BCIE07CXCBEV003C2.5SAXXP	3	2.5	0.70	0.20	11.6	205
BCIE07CXCBEV003C4.0SAXXP	3	4	0.70	0.20	13.1	275
BCIE07CXCBEV003C6.0SAXXP	3	6	0.70	0.20	14.2	345
BCIE07CXCBEV003C010SAXXP	3	10	0.70	0.30	16.9	535
BCIE07CXCBEV003C016SAXXP	3	16	0.70	0.30	19.4	755
BCIE07CXCBEV003C025SAXXP	3	25	0.90	0.30	23.4	1105
BCIE07CXCBEV003C035SAXXP	3	35	0.90	0.30	26.0	1435
BCIE07CXCBEV003C050SAXXP	3	50	1.00	0.30	29.9	1955
BCIE07CXCBEV003C070SAXXP	3	70	1.10	0.30	34.5	2645
BCIE07CXCBEV003C095SAXXP	3	95	1.10	0.30	38.6	3445
BCIE07CXCBEV003C120SAXXP	3	120	1.20	0.40	43.2	4385
BCIE07CXCBEV003C150SAXXP	3	150	1.40	0.40	47.9	5385
BCIE07CXCBEV003C185SAXXP	3	185	1.60	0.40	52.9	6565
BCIE07CXCBEV003C240SAXXP	3	240	1.70	0.40	59.0	8320
BCIE07CXCBEV003C300SAXXP	3	300	1.80	0.40	64.9	10235
BCIE07CXCBEV003C035SAXXP	3	35 *	0.90	0.30	21.8	1330
BCIE07CXCBEV003C050SAXXP	3	50 *	1.00	0.30	24.9	1835
BCIE07CXCBEV003C070SAXXP	3	70 *	1.10	0.30	28.4	2485
BCIE07CXCBEV003C095SAXXP	3	95 *	1.10	0.30	31.7	3260
BCIE07CXCBEV003C120SAXXP	3	120 *	1.20	0.40	35.3	4150
BCIE07CXCBEV003C150SAXXP	3	150 *	1.40	0.40	38.9	5100
BCIE07CXCBEV003C185SAXXP	3	185 *	1.60	0.40	43.0	6245
BCIE07CXCBEV003C240SAXXP	4	1.5	0.70	0.20	11.6	195
BCIE07CXCBEV003C300SAXXP	4	2.5	0.70	0.20	12.6	250
BCIE07CXCBEV004C1.5SAXXP	4	4	0.70	0.20	14.2	340
BCIE07CXCBEV004C2.5SAXXP	4	6	0.70	0.30	16.2	475
BCIE07CXCBEV004C4.0SAXXP	4	10	0.70	0.30	18.5	670
BCIE07CXCBEV004C6.0SAXXP	4	16	0.70	0.30	21.2	945
BCIE07CXCBEV004C010SAXXP	4	25	0.90	0.30	25.8	1415
BCIE07CXCBEV004C016SAXXP	4	35	0.90	0.30	28.8	1850
BCIE07CXCBEV004C025SAXXP	4	50	1.00	0.30	33.3	2540
BCIE07CXCBEV004C035SAXXP	4	70	1.10	0.30	38.2	3420

OUR ACCREDITATION



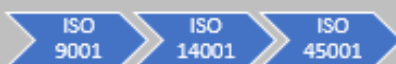
POLYCAB MARINE IEC 60092-353 0.6/1.0 kV FS ARM

Fire Survival Armoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Braid Wire Dia. (mm)	Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE07CXCBEV004C095SAXXP	4	95	1.10	0.40	43.4	4595
BCIE07CXCBEV004C120SAXXP	4	120	1.20	0.40	47.8	5675
BCIE07CXCBEV004C035SAXXP	4	150	1.40	0.40	53.2	7015
BCIE07CXCBEV004C050SAXXP	4	185	1.60	0.40	58.8	8555
BCIE07CXCBEV004C070SAXXP	4	240	1.70	0.40	65.6	10865
BCIE07CXCBEV004C095SAXXP	4	300	1.80	0.40	71.9	13340
BCIE07CXCBEV004C120SAXXP	4	35 *	0.90	0.30	25.9	1910
BCIE07CXCBEV005C4.0SAXXP	4	50 *	1.00	0.30	29.8	2635
BCIE07CXCBEV005C6.0SAXXP	4	70 *	1.10	0.30	34.3	3595
BCIE07CXCBEV005C010SAXXP	4	95 *	1.10	0.40	38.9	4795
BCIE07CXCBEV005C016SAXXP	4	120 *	1.20	0.40	41.5	5875
BCIE07CXCBEV005C025SAXXP	5	4	0.70	0.20	15.4	400
BCIE07CXCBEV005C035SAXXP	5	6	0.70	0.30	17.6	565
BCIE07CXCBEV005C050SAXXP	5	10	0.70	0.30	20.3	815
BCIE07CXCBEV005C070SAXXP	5	16	0.70	0.30	23.4	1155
BCIE07CXCBEV005C095SAXXP	5	25	0.90	0.30	28.5	1730
BCIE07CXCBEV005C1.5SAXXP	5	35	0.90	0.30	32.4	2315
BCIE07CXCBEV007C1.5SAXXP	5	50	1.00	0.30	36.9	3135
BCIE07CXCBEV010C1.5SAXXP	5	70	1.10	0.40	42.4	4280
BCIE07CXCBEV012C1.5SAXXP	5	95	1.10	0.40	47.2	5570
BCIE07CXCBEV014C1.5SAXXP	5	1.5	0.70	0.20	12.6	230
BCIE07CXCBEV016C1.5SAXXP	7	1.5	0.70	0.20	13.8	295
BCIE07CXCBEV019C1.5SAXXP	10	1.5	0.70	0.30	17.9	455
BCIE07CXCBEV024C1.5SAXXP	12	1.5	0.70	0.30	18.5	505
BCIE07CXCBEV027C1.5SAXXP	14	1.5	0.70	0.30	19.5	575
BCIE07CXCBEV037C1.5SAXXP	16	1.5	0.70	0.30	20.5	635
BCIE07CXCBEV005C2.5SAXXP	19	1.5	0.70	0.30	21.6	720
BCIE07CXCBEV007C2.5SAXXP	24	1.5	0.70	0.30	25.2	900
BCIE07CXCBEV010C2.5SAXXP	27	1.5	0.70	0.30	25.7	980
BCIE07CXCBEV012C2.5SAXXP	37	1.5	0.70	0.30	28.8	1270
BCIE07CXCBEV004C095SAXXP	5	2.5	0.70	0.20	13.9	300
BCIE07CXCBEV004C120SAXXP	7	2.5	0.70	0.20	15.1	380
BCIE07CXCBEV004C035SAXXP	10	2.5	0.70	0.30	19.8	590
BCIE07CXCBEV004C050SAXXP	12	2.5	0.70	0.30	20.4	665

OUR ACCREDITATION

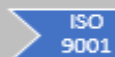


Fire Survival Armoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Braid Wire Dia. (mm)	Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE07CXCBEV014C2.5SAXXP	14	2.5	0.70	0.30	21.4	745
BCIE07CXCBEV016C2.5SAXXP	16	2.5	0.70	0.30	22.7	840
BCIE07CXCBEV019C2.5SAXXP	19	2.5	0.70	0.30	23.9	955
BCIE07CXCBEV024C2.5SAXXP	24	2.5	0.70	0.30	27.9	1195
BCIE07CXCBEV027C2.5SAXXP	27	2.5	0.70	0.30	28.5	1305
BCIE07CXCBEV030C2.5SAXXP	30	2.5	0.70	0.30	29.7	1435
BCIE07CXCBEV037C2.5SAXXP	37	2.5	0.70	0.30	32.4	1740

OUR ACREDITATION



Fire Survival Armoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

ELECTRICAL CHARACTERISTICS:

Conductor cross-sectional area	Max. Conductor Resistance of Class-2		Current Rating for continuous service Conductor temperature max. +90°C, ambient temperature max +45°C									
	at 20°C DC	at 90°C AC	1C	2C	3C	4C	5C	7C	12C	19C	27C	37C
			1.0 *	0.85 *	0.70 *	0.70 *	0.58 *	0.52 *	0.44 *	0.37 *	0.33 *	0.90 *
mm ²	Ohm/km		Amps									
1.5	12.1	15.4	23	20	16	16	13	12	10	9	8	7
2.5	7.41	9.45	30	26	21	21	18	16	13	11	10	9
4	4.61	5.88	41	34	28	28	24	-	-	-	-	-
6	3.08	3.93	52	44	36	36	30	-	-	-	-	-
10	1.83	2.33	72	61	50	50	42	-	-	-	-	-
16	1.15	1.47	96	82	67	67	56	-	-	-	-	-
25	0.727	0.927	127	108	89	89	74	-	-	-	-	-
35	0.524	0.668	157	133	110	110	92	-	-	-	-	-
50	0.387	0.493	196	167	137	137	-	-	-	-	-	-
70	0.268	0.342	242	206	169	169	-	-	-	-	-	-
95	0.193	0.246	293	249	205	205	-	-	-	-	-	-
120	0.153	0.195	339	288	237	237	-	-	-	-	-	-
150	0.124	0.158	389	331	272	272	-	-	-	-	-	-
185	0.0991	0.126	444	377	311	311	-	-	-	-	-	-
240	0.0754	0.0961	522	444	365	365	-	-	-	-	-	-
300	0.0601	0.0766	601	511	421	421	-	-	-	-	-	-

Current Ratings are in accordance with IEC 60029-352 Table B.4.

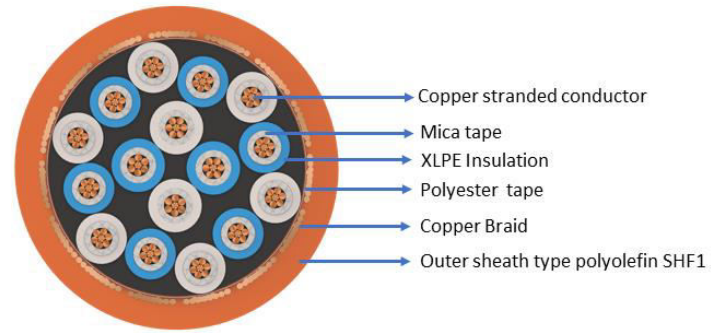
Ambient temperature de-rating factors, according to IEC 60092-352 Table-3

Temperature (°C)	35	40	45	50	55	60	65	70	75
De-rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58

OUR ACCREDITATION



Fire Survival Instrumentation cable XLPE Insulated Overall Braided 150/250 (300) V



Outstanding Features

- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission

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.

Voltage Rating

150/250 (300) V

Operation Temperature

Max.: 90°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

Note: As per the application/identification requirement, other colour also available on request.

Bending Radius

Min. 8D; D is cable diameter

Standard Follows

IEC 60228:2005
IEC 60092-350:2020
IEC 60092-376:2017
IEC 60092-360:2014

Test Voltage

1500V AC at (20±5)°C

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



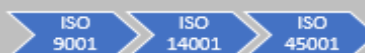
OUR ACCREDITATION



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)
BCIE31CXCBEV001P0.5SAXXP	1	0.5	0.40	0.15	1.0	7.7	80
BCIE31CXCBEV002P0.5SAXXP	2	0.5	0.40	0.15	1.2	11.2	143
BCIE31CXCBEV003P0.5SAXXP	3	0.5	0.40	0.20	1.2	12.1	189
BCIE31CXCBEV004P0.5SAXXP	4	0.5	0.40	0.20	1.2	13.3	230
BCIE31CXCBEV005P0.5SAXXP	5	0.5	0.40	0.20	1.3	14.6	273
BCIE31CXCBEV006P0.5SAXXP	6	0.5	0.40	0.20	1.3	15.9	317
BCIE31CXCBEV007P0.5SAXXP	7	0.5	0.40	0.20	1.3	15.9	344
BCIE31CXCBEV008P0.5SAXXP	8	0.5	0.40	0.20	1.4	18.0	399
BCIE31CXCBEV010P0.5SAXXP	10	0.5	0.40	0.20	1.5	20.5	489
BCIE31CXCBEV012P0.5SAXXP	12	0.5	0.40	0.20	1.5	21.2	553
BCIE31CXCBEV014P0.5SAXXP	14	0.5	0.40	0.20	1.6	22.4	624
BCIE31CXCBEV016P0.5SAXXP	16	0.5	0.40	0.20	1.6	23.7	698
BCIE31CXCBEV018P0.5SAXXP	18	0.5	0.40	0.20	1.7	25.1	774
BCIE31CXCBEV019P0.5SAXXP	19	0.5	0.40	0.20	1.7	25.1	800
BCIE31CXCBEV020P0.5SAXXP	20	0.5	0.40	0.20	1.7	26.6	853
BCIE31CXCBEV024P0.5SAXXP	24	0.5	0.40	0.20	1.8	29.7	1014
BCIE31CXCBEV001P.75SAXXP	1	0.75	0.50	0.15	1.1	8.5	97
BCIE31CXCBEV002P.75SAXXP	2	0.75	0.50	0.20	1.2	12.8	188
BCIE31CXCBEV003P.75SAXXP	3	0.75	0.50	0.20	1.2	13.7	234
BCIE31CXCBEV004P.75SAXXP	4	0.75	0.50	0.20	1.3	15.0	287
BCIE31CXCBEV005P.75SAXXP	5	0.75	0.50	0.20	1.4	16.5	342
BCIE31CXCBEV006P.75SAXXP	6	0.75	0.50	0.20	1.4	18.1	399
BCIE31CXCBEV007P.75SAXXP	7	0.75	0.50	0.20	1.4	18.1	434
BCIE31CXCBEV008P.75SAXXP	8	0.75	0.50	0.20	1.5	20.5	504
BCIE31CXCBEV010P.75SAXXP	10	0.75	0.50	0.20	1.6	23.4	620
BCIE31CXCBEV012P.75SAXXP	12	0.75	0.50	0.20	1.6	24.3	704
BCIE31CXCBEV014P.75SAXXP	14	0.75	0.50	0.20	1.7	25.6	797
BCIE31CXCBEV016P.75SAXXP	16	0.75	0.50	0.20	1.7	27.1	893
BCIE31CXCBEV018P.75SAXXP	18	0.75	0.50	0.20	1.8	28.7	992
BCIE31CXCBEV019P.75SAXXP	19	0.75	0.50	0.20	1.8	28.7	1027
BCIE31CXCBEV020P.75SAXXP	20	0.75	0.50	0.20	1.9	30.5	1094
BCIE31CXCBEV024P.75SAXXP	24	0.75	0.50	0.20	2.0	34.0	1304

OUR ACCREDITATION



Fire Survival Instrumentation cable XLPE Insulated 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)
BCIE31CXCBEV001P1.0SAXXP	1	1	0.50	0.15	1.1	8.9	108
BCIE31CXCBEV002P1.0SAXXP	2	1	0.50	0.20	1.2	13.4	210
BCIE31CXCBEV003P1.0SAXXP	3	1	0.50	0.20	1.3	14.3	263
BCIE31CXCBEV004P1.0SAXXP	4	1	0.50	0.20	1.3	15.8	324
BCIE31CXCBEV005P1.0SAXXP	5	1	0.50	0.20	1.4	17.4	387
BCIE31CXCBEV006P1.0SAXXP	6	1	0.50	0.20	1.4	19.1	453
BCIE31CXCBEV007P1.0SAXXP	7	1	0.50	0.20	1.4	19.1	495
BCIE31CXCBEV008P1.0SAXXP	8	1	0.50	0.20	1.5	21.6	575
BCIE31CXCBEV010P1.0SAXXP	10	1	0.50	0.20	1.7	24.7	709
BCIE31CXCBEV012P1.0SAXXP	12	1	0.50	0.20	1.7	25.6	807
BCIE31CXCBEV014P1.0SAXXP	14	1	0.50	0.20	1.7	27.0	915
BCIE31CXCBEV016P1.0SAXXP	16	1	0.50	0.20	1.8	28.6	1028
BCIE31CXCBEV018P1.0SAXXP	18	1	0.50	0.20	1.9	30.3	1142
BCIE31CXCBEV019P1.0SAXXP	19	1	0.50	0.20	1.9	30.3	1184
BCIE31CXCBEV020P1.0SAXXP	20	1	0.50	0.20	1.9	32.2	1261
BCIE31CXCBEV024P1.0SAXXP	24	1	0.50	0.20	2.1	36.0	1504
BCIE31CXCBEV001P1.5SAXXP	1	1.5	0.60	0.15	1.1	10.0	133
BCIE31CXCBEV002P1.5SAXXP	2	1.5	0.60	0.20	1.3	15.2	260
BCIE31CXCBEV003P1.5SAXXP	3	1.5	0.60	0.20	1.3	16.2	330
BCIE31CXCBEV004P1.5SAXXP	4	1.5	0.60	0.20	1.4	17.9	410
BCIE31CXCBEV005P1.5SAXXP	5	1.5	0.60	0.20	1.5	19.7	492
BCIE31CXCBEV006P1.5SAXXP	6	1.5	0.60	0.20	1.5	21.7	578
BCIE31CXCBEV007P1.5SAXXP	7	1.5	0.60	0.20	1.5	21.7	634
BCIE31CXCBEV008P1.5SAXXP	8	1.5	0.60	0.20	1.7	24.6	737
BCIE31CXCBEV010P1.5SAXXP	10	1.5	0.60	0.20	1.8	28.1	911
BCIE31CXCBEV012P1.5SAXXP	12	1.5	0.60	0.20	1.8	29.2	1042
BCIE31CXCBEV014P1.5SAXXP	14	1.5	0.60	0.20	1.9	30.8	1184
BCIE31CXCBEV016P1.5SAXXP	16	1.5	0.60	0.20	2.0	32.7	1332
BCIE31CXCBEV018P1.5SAXXP	18	1.5	0.60	0.20	2.0	34.6	1483
BCIE31CXCBEV019P1.5SAXXP	19	1.5	0.60	0.20	2.0	34.6	1539
BCIE31CXCBEV020P1.5SAXXP	20	1.5	0.60	0.20	2.1	36.8	1640
BCIE31CXCBEV024P1.5SAXXP	24	1.5	0.60	0.20	2.3	41.1	1959

OUR ACCREDITATION



Fire Survival Instrumentation cable XLPE Insulated 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)
BCIE31CXCBEV001P2.5SAXXXP	1	2.5	0.60	0.15	1.1	10.9	165
BCIE31CXCBEV002P2.5SAXXXP	2	2.5	0.60	0.20	1.4	16.7	326
BCIE31CXCBEV003P2.5SAXXXP	3	2.5	0.60	0.20	1.4	17.9	420
BCIE31CXCBEV004P2.5SAXXXP	4	2.5	0.60	0.20	1.5	19.8	526
BCIE31CXCBEV005P2.5SAXXXP	5	2.5	0.60	0.20	1.5	21.8	635
BCIE31CXCBEV006P2.5SAXXXP	6	2.5	0.60	0.20	1.6	24.0	748
BCIE31CXCBEV007P2.5SAXXXP	7	2.5	0.60	0.20	1.6	24.0	826
BCIE31CXCBEV008P2.5SAXXXP	8	2.5	0.60	0.20	1.8	27.3	960
BCIE31CXCBEV010P2.5SAXXXP	10	2.5	0.60	0.20	1.9	31.2	1190
BCIE31CXCBEV012P2.5SAXXXP	12	2.5	0.60	0.20	1.9	32.4	1369
BCIE31CXCBEV014P2.5SAXXXP	14	2.5	0.60	0.20	2.0	34.2	1561
BCIE31CXCBEV016P2.5SAXXXP	16	2.5	0.60	0.20	2.1	36.3	1761
BCIE31CXCBEV018P2.5SAXXXP	18	2.5	0.60	0.20	2.2	38.5	1964
BCIE31CXCBEV019P2.5SAXXXP	19	2.5	0.60	0.20	2.2	38.5	2042
BCIE31CXCBEV020P2.5SAXXXP	20	2.5	0.60	0.20	2.3	40.9	2173
BCIE31CXCBEV024P2.5SAXXXP	24	2.5	0.60	0.20	2.4	45.8	2600

Electrical Parameter

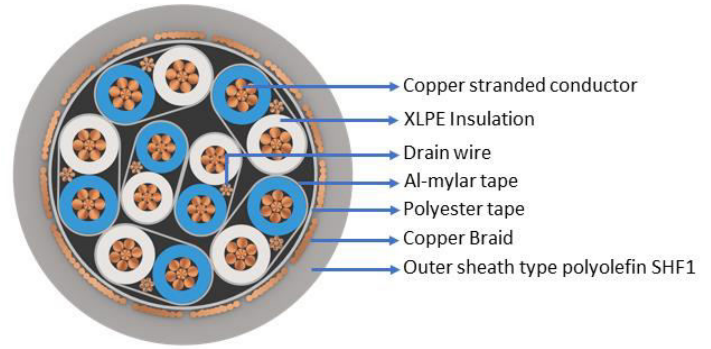
Area of Conductor	Max. DC resistance of conductor at 20°C Plain wires	Max. DC resistance of conductor at 20°C Metal coated wires	Mutual capacitance	Inductance	Inductance to resistance ratio(L/R)
Sq.mm	Ohm/km	Ohm/km	nF/Km	mH/Km	μH/Ω
0.5	40.4	41.6	< 150	1	< 25
0.75	26.0	26.3	< 150	1	< 25
1	19.2	19.3	< 150	1	< 25
1.5	12.8	12.9	< 150	1	< 40
2.5	7.86	8.02	< 150	1	< 60

OUR ACCREDITATION









Outstanding Features

- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission

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.

Voltage Rating

150/250 (300) V

Operation Temperature

Max.: 90°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).

Bending Radius

Min. 8D; D is cable diameter

Standard Follows

IEC 60228:2005
IEC 60092-350:2020
IEC 60092-376:2017
IEC 60092-360:2014

Test Voltage

1500V AC at (20±5)°C

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

Core Identification

White & Blue for Pair

Outer sheath colour: Black

Note: As per the application/identification requirement, other colour also available on request.



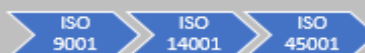
OUR ACCREDITATION



DIMENSIONS AND WEIGHTS:

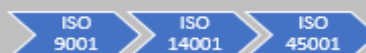
Product Code	No. of Pairs	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Braid Wire Dia. (mm)	Nom. Sheath Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE31CXCBEV001P0.5SAXXXP	1	0.5	0.40	0.15	1.0	7.70	86
BCIE31CXCBEV002P0.5SAXXXP	2	0.5	0.40	0.20	1.2	12.3	175
BCIE31CXCBEV003P0.5SAXXXP	3	0.5	0.40	0.20	1.2	13.1	217
BCIE31CXCBEV004P0.5SAXXXP	4	0.5	0.40	0.20	1.3	14.4	265
BCIE31CXCBEV005P0.5SAXXXP	5	0.5	0.40	0.20	1.3	15.8	316
BCIE31CXCBEV006P0.5SAXXXP	6	0.5	0.40	0.20	1.4	17.3	368
BCIE31CXCBEV007P0.5SAXXXP	7	0.5	0.40	0.20	1.4	17.3	400
BCIE31CXCBEV008P0.5SAXXXP	8	0.5	0.40	0.20	1.5	19.6	465
BCIE31CXCBEV010P0.5SAXXXP	10	0.5	0.40	0.20	1.6	22.3	571
BCIE31CXCBEV012P0.5SAXXXP	12	0.5	0.40	0.20	1.6	23.1	647
BCIE31CXCBEV014P0.5SAXXXP	14	0.5	0.40	0.20	1.6	24.4	731
BCIE31CXCBEV016P0.5SAXXXP	16	0.5	0.40	0.20	1.7	25.8	820
BCIE31CXCBEV018P0.5SAXXXP	18	0.5	0.40	0.20	1.8	27.4	909
BCIE31CXCBEV019P0.5SAXXXP	19	0.5	0.40	0.20	1.8	27.4	941
BCIE31CXCBEV020P0.5SAXXXP	20	0.5	0.40	0.20	1.8	29.0	1003
BCIE31CXCBEV024P0.5SAXXXP	24	0.5	0.40	0.20	1.9	32.4	1194
BCIE31CXCBEV001P.75SAXXXP	1	0.75	0.50	0.15	1.1	8.60	103
BCIE31CXCBEV002P.75SAXXXP	2	0.75	0.50	0.20	1.3	13.8	212
BCIE31CXCBEV003P.75SAXXXP	3	0.75	0.50	0.20	1.3	14.8	265
BCIE31CXCBEV004P.75SAXXXP	4	0.75	0.50	0.20	1.3	16.3	325
BCIE31CXCBEV005P.75SAXXXP	5	0.75	0.50	0.20	1.4	17.9	389
BCIE31CXCBEV006P.75SAXXXP	6	0.75	0.50	0.20	1.5	19.7	455
BCIE31CXCBEV007P.75SAXXXP	7	0.75	0.50	0.20	1.5	19.7	495
BCIE31CXCBEV008P.75SAXXXP	8	0.75	0.50	0.20	1.6	22.3	576
BCIE31CXCBEV010P.75SAXXXP	10	0.75	0.50	0.20	1.7	25.5	709
BCIE31CXCBEV012P.75SAXXXP	12	0.75	0.50	0.20	1.7	26.4	806
BCIE31CXCBEV014P.75SAXXXP	14	0.75	0.50	0.20	1.8	27.9	913
BCIE31CXCBEV016P.75SAXXXP	16	0.75	0.50	0.20	1.8	29.6	1025
BCIE31CXCBEV018P.75SAXXXP	18	0.75	0.50	0.20	1.9	31.3	1139
BCIE31CXCBEV019P.75SAXXXP	19	0.75	0.50	0.20	1.9	31.3	1179
BCIE31CXCBEV020P.75SAXXXP	20	0.75	0.50	0.20	2.0	33.2	1257
BCIE31CXCBEV024P.75SAXXXP	24	0.75	0.50	0.20	2.1	37.1	1499

OUR ACCREDITATION



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)
BCIE31CXCBEV001P1.0SAXXXP	1	1	0.50	0.15	1.1	9.00	114
BCIE31CXCBEV002P1.0SAXXXP	2	1	0.50	0.20	1.3	14.5	235
BCIE31CXCBEV003P1.0SAXXXP	3	1	0.50	0.20	1.3	15.5	295
BCIE31CXCBEV004P1.0SAXXXP	4	1	0.50	0.20	1.4	17.1	364
BCIE31CXCBEV005P1.0SAXXXP	5	1	0.50	0.20	1.4	18.9	436
BCIE31CXCBEV006P1.0SAXXXP	6	1	0.50	0.20	1.5	20.7	511
BCIE31CXCBEV007P1.0SAXXXP	7	1	0.50	0.20	1.5	20.7	558
BCIE31CXCBEV008P1.0SAXXXP	8	1	0.50	0.20	1.6	23.5	649
BCIE31CXCBEV010P1.0SAXXXP	10	1	0.50	0.20	1.7	26.9	801
BCIE31CXCBEV012P1.0SAXXXP	12	1	0.50	0.20	1.8	27.9	913
BCIE31CXCBEV014P1.0SAXXXP	14	1	0.50	0.20	1.8	29.4	1035
BCIE31CXCBEV016P1.0SAXXXP	16	1	0.50	0.20	1.9	31.2	1163
BCIE31CXCBEV018P1.0SAXXXP	18	1	0.50	0.20	2.0	33.0	1294
BCIE31CXCBEV019P1.0SAXXXP	19	1	0.50	0.20	2.0	33.0	1341
BCIE31CXCBEV020P1.0SAXXXP	20	1	0.50	0.20	2.0	35.1	1429
BCIE31CXCBEV024P1.0SAXXXP	24	1	0.50	0.20	2.2	39.2	1706
BCIE31CXCBEV001P1.5SAXXXP	1	1.5	0.60	0.15	1.1	10.1	139
BCIE31CXCBEV002P1.5SAXXXP	2	1.5	0.60	0.20	1.3	16.4	288
BCIE31CXCBEV003P1.5SAXXXP	3	1.5	0.60	0.20	1.4	17.5	366
BCIE31CXCBEV004P1.5SAXXXP	4	1.5	0.60	0.20	1.5	19.4	454
BCIE31CXCBEV005P1.5SAXXXP	5	1.5	0.60	0.20	1.5	21.4	546
BCIE31CXCBEV006P1.5SAXXXP	6	1.5	0.60	0.20	1.6	23.5	642
BCIE31CXCBEV007P1.5SAXXXP	7	1.5	0.60	0.20	1.6	23.5	703
BCIE31CXCBEV008P1.5SAXXXP	8	1.5	0.60	0.20	1.7	26.7	819
BCIE31CXCBEV010P1.5SAXXXP	10	1.5	0.60	0.20	1.9	30.6	1013
BCIE31CXCBEV012P1.5SAXXXP	12	1.5	0.60	0.20	1.9	31.7	1158
BCIE31CXCBEV014P1.5SAXXXP	14	1.5	0.60	0.20	2.0	33.5	1316
BCIE31CXCBEV016P1.5SAXXXP	16	1.5	0.60	0.20	2.1	35.6	1482
BCIE31CXCBEV018P1.5SAXXXP	18	1.5	0.60	0.20	2.1	37.7	1650
BCIE31CXCBEV019P1.5SAXXXP	19	1.5	0.60	0.20	2.1	37.7	1711
BCIE31CXCBEV020P1.5SAXXXP	20	1.5	0.60	0.20	2.2	40.1	1824
BCIE31CXCBEV024P1.5SAXXXP	24	1.5	0.60	0.20	2.4	44.8	2181

OUR ACCREDITATION

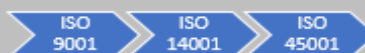


Product Code	No. of Pairs	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Braid Wire Dia. (mm)	Nom. Sheath Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE31CXCBEV001P2.5SAXXP	1	2.5	0.60	0.15	1.1	11.0	171
BCIE31CXCBEV002P2.5SAXXP	2	2.5	0.60	0.20	1.4	18.1	357
BCIE31CXCBEV003P2.5SAXXP	3	2.5	0.60	0.20	1.5	19.4	459
BCIE31CXCBEV004P2.5SAXXP	4	2.5	0.60	0.20	1.5	21.4	574
BCIE31CXCBEV005P2.5SAXXP	5	2.5	0.60	0.20	1.6	23.6	694
BCIE31CXCBEV006P2.5SAXXP	6	2.5	0.60	0.20	1.7	26.0	818
BCIE31CXCBEV007P2.5SAXXP	7	2.5	0.60	0.20	1.7	26.0	901
BCIE31CXCBEV008P2.5SAXXP	8	2.5	0.60	0.20	1.8	29.6	1049
BCIE31CXCBEV010P2.5SAXXP	10	2.5	0.60	0.20	2.0	34.0	1302
BCIE31CXCBEV012P2.5SAXXP	12	2.5	0.60	0.20	2.0	35.2	1495
BCIE31CXCBEV014P2.5SAXXP	14	2.5	0.60	0.20	2.1	37.2	1705
BCIE31CXCBEV016P2.5SAXXP	16	2.5	0.60	0.20	2.2	39.5	1923
BCIE31CXCBEV018P2.5SAXXP	18	2.5	0.60	0.20	2.3	41.9	2144
BCIE31CXCBEV019P2.5SAXXP	19	2.5	0.60	0.20	2.3	41.9	2228
BCIE31CXCBEV020P2.5SAXXP	20	2.5	0.60	0.20	2.4	44.5	2374
BCIE31CXCBEV024P2.5SAXXP	24	2.5	0.60	0.20	2.6	49.9	2842

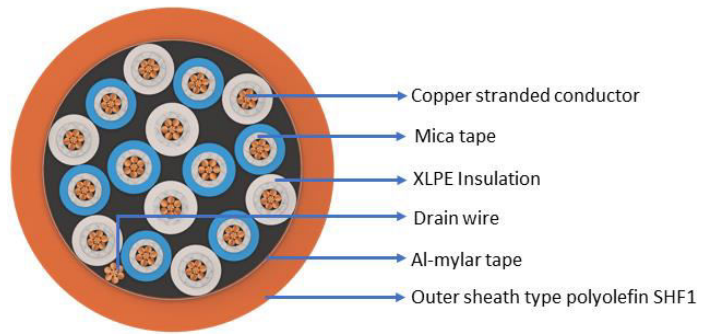
Electrical Parameter

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

OUR ACCREDITATION



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



- Outstanding Features**
- Halogen Free
 - Reduced Flame Propagation
 - Flame Retardant
 - Low Smoke Emission

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.

Voltage Rating
150/250 (300) V

Bending Radius
Min. 8D; D is cable diameter

Operation Temperature
Max.: 90°C

Standard Follows
IEC 60228:2005
IEC 60092-350:2020
IEC 60092-376:2017
IEC 60092-360:2014

- 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).

Test Voltage
1500V AC at (20±5)°C

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

Core Identification
White & Blue for Pair

Outer sheath colour: Black

Note: As per the application/identification requirement, other colour also available on request.



OUR ACCREDITATION

--	--	--	--	--	--	--	--

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)
ICIE31CXUAEV001P0.5SAXXP	1	0.5	0.40	1.0	7.3	60
ICIE31CXUAEV002P0.5SAXXP	2	0.5	0.40	1.1	10.8	111
ICIE31CXUAEV003P0.5SAXXP	3	0.5	0.40	1.2	11.6	143
ICIE31CXUAEV004P0.5SAXXP	4	0.5	0.40	1.2	12.8	179
ICIE31CXUAEV005P0.5SAXXP	5	0.5	0.40	1.3	14.0	216
ICIE31CXUAEV006P0.5SAXXP	6	0.5	0.40	1.3	15.4	255
ICIE31CXUAEV007P0.5SAXXP	7	0.5	0.40	1.3	15.4	282
ICIE31CXUAEV008P0.5SAXXP	8	0.5	0.40	1.4	17.5	328
ICIE31CXUAEV010P0.5SAXXP	10	0.5	0.40	1.5	20.0	407
ICIE31CXUAEV012P0.5SAXXP	12	0.5	0.40	1.5	20.7	468
ICIE31CXUAEV014P0.5SAXXP	14	0.5	0.40	1.6	21.9	534
ICIE31CXUAEV016P0.5SAXXP	16	0.5	0.40	1.6	23.2	603
ICIE31CXUAEV018P0.5SAXXP	18	0.5	0.40	1.7	24.6	673
ICIE31CXUAEV019P0.5SAXXP	19	0.5	0.40	1.7	24.6	699
ICIE31CXUAEV020P0.5SAXXP	20	0.5	0.40	1.7	26.1	745
ICIE31CXUAEV024P0.5SAXXP	24	0.5	0.40	1.8	29.1	893
ICIE31CXUAEV001P.75SAXXP	1	0.75	0.50	1.0	8.1	74
ICIE31CXUAEV002P.75SAXXP	2	0.75	0.50	1.2	12.3	139
ICIE31CXUAEV003P.75SAXXP	3	0.75	0.50	1.2	13.1	181
ICIE31CXUAEV004P.75SAXXP	4	0.75	0.50	1.3	14.5	228
ICIE31CXUAEV005P.75SAXXP	5	0.75	0.50	1.3	16.0	277
ICIE31CXUAEV006P.75SAXXP	6	0.75	0.50	1.4	17.6	328
ICIE31CXUAEV007P.75SAXXP	7	0.75	0.50	1.4	17.6	363
ICIE31CXUAEV008P.75SAXXP	8	0.75	0.50	1.5	20.0	423
ICIE31CXUAEV010P.75SAXXP	10	0.75	0.50	1.6	22.9	526
ICIE31CXUAEV012P.75SAXXP	12	0.75	0.50	1.6	23.8	607
ICIE31CXUAEV014P.75SAXXP	14	0.75	0.50	1.7	25.1	693
ICIE31CXUAEV016P.75SAXXP	16	0.75	0.50	1.7	26.6	784
ICIE31CXUAEV018P.75SAXXP	18	0.75	0.50	1.8	28.2	875
ICIE31CXUAEV019P.75SAXXP	19	0.75	0.50	1.8	28.2	910
ICIE31CXUAEV020P.75SAXXP	20	0.75	0.50	1.9	30.0	970
ICIE31CXUAEV024P.75SAXXP	24	0.75	0.50	2.0	33.5	1165

OUR ACCREDITATION



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

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)
ICIE31CXUAEV001P1.0SAXXXP	1	1	0.50	1.1	8.5	83
ICIE31CXUAEV002P1.0SAXXXP	2	1	0.50	1.2	12.9	158
ICIE31CXUAEV003P1.0SAXXXP	3	1	0.50	1.3	13.8	207
ICIE31CXUAEV004P1.0SAXXXP	4	1	0.50	1.3	15.3	262
ICIE31CXUAEV005P1.0SAXXXP	5	1	0.50	1.4	16.9	319
ICIE31CXUAEV006P1.0SAXXXP	6	1	0.50	1.4	18.6	378
ICIE31CXUAEV007P1.0SAXXXP	7	1	0.50	1.4	18.6	419
ICIE31CXUAEV008P1.0SAXXXP	8	1	0.50	1.5	21.1	489
ICIE31CXUAEV010P1.0SAXXXP	10	1	0.50	1.6	24.2	609
ICIE31CXUAEV012P1.0SAXXXP	12	1	0.50	1.7	25.1	704
ICIE31CXUAEV014P1.0SAXXXP	14	1	0.50	1.7	26.5	806
ICIE31CXUAEV016P1.0SAXXXP	16	1	0.50	1.8	28.1	911
ICIE31CXUAEV018P1.0SAXXXP	18	1	0.50	1.8	29.8	1019
ICIE31CXUAEV019P1.0SAXXXP	19	1	0.50	1.8	29.8	1060
ICIE31CXUAEV020P1.0SAXXXP	20	1	0.50	1.9	31.7	1130
ICIE31CXUAEV024P1.0SAXXXP	24	1	0.50	2.1	35.4	1356
ICIE31CXUAEV001P1.5SAXXXP	1	1.5	0.60	1.1	9.6	105
ICIE31CXUAEV002P1.5SAXXXP	2	1.5	0.60	1.3	14.7	202
ICIE31CXUAEV003P1.5SAXXXP	3	1.5	0.60	1.3	15.7	267
ICIE31CXUAEV004P1.5SAXXXP	4	1.5	0.60	1.4	17.4	339
ICIE31CXUAEV005P1.5SAXXXP	5	1.5	0.60	1.5	19.2	414
ICIE31CXUAEV006P1.5SAXXXP	6	1.5	0.60	1.5	21.1	492
ICIE31CXUAEV007P1.5SAXXXP	7	1.5	0.60	1.5	21.1	548
ICIE31CXUAEV008P1.5SAXXXP	8	1.5	0.60	1.6	24.1	638
ICIE31CXUAEV010P1.5SAXXXP	10	1.5	0.60	1.8	27.6	797
ICIE31CXUAEV012P1.5SAXXXP	12	1.5	0.60	1.8	28.7	923
ICIE31CXUAEV014P1.5SAXXXP	14	1.5	0.60	1.9	30.3	1059
ICIE31CXUAEV016P1.5SAXXXP	16	1.5	0.60	1.9	32.2	1199
ICIE31CXUAEV018P1.5SAXXXP	18	1.5	0.60	2.0	34.1	1341
ICIE31CXUAEV019P1.5SAXXXP	19	1.5	0.60	2.0	34.1	1397
ICIE31CXUAEV020P1.5SAXXXP	20	1.5	0.60	2.1	36.3	1489
ICIE31CXUAEV024P1.5SAXXXP	24	1.5	0.60	2.2	40.6	1789

OUR ACCREDITATION



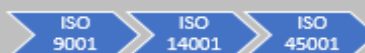
Fire Survival Instrumentation cable XLPE Insulated Overall Shielded 150/250 (300) V

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)
ICIE31CXUAEV001P2.5SAXXP	1	2.5	0.60	1.1	10.5	134
ICIE31CXUAEV002P2.5SAXXP	2	2.5	0.60	1.3	16.2	260
ICIE31CXUAEV003P2.5SAXXP	3	2.5	0.60	1.4	17.4	350
ICIE31CXUAEV004P2.5SAXXP	4	2.5	0.60	1.5	19.3	447
ICIE31CXUAEV005P2.5SAXXP	5	2.5	0.60	1.5	21.3	548
ICIE31CXUAEV006P2.5SAXXP	6	2.5	0.60	1.6	23.5	652
ICIE31CXUAEV007P2.5SAXXP	7	2.5	0.60	1.6	23.5	730
ICIE31CXUAEV008P2.5SAXXP	8	2.5	0.60	1.7	26.7	850
ICIE31CXUAEV010P2.5SAXXP	10	2.5	0.60	1.9	30.7	1063
ICIE31CXUAEV012P2.5SAXXP	12	2.5	0.60	1.9	31.9	1236
ICIE31CXUAEV014P2.5SAXXP	14	2.5	0.60	2.0	33.7	1421
ICIE31CXUAEV016P2.5SAXXP	16	2.5	0.60	2.1	35.8	1612
ICIE31CXUAEV018P2.5SAXXP	18	2.5	0.60	2.1	38.0	1805
ICIE31CXUAEV019P2.5SAXXP	19	2.5	0.60	2.1	38.0	1883
ICIE31CXUAEV020P2.5SAXXP	20	2.5	0.60	2.2	40.4	2005
ICIE31CXUAEV024P2.5SAXXP	24	2.5	0.60	2.4	45.3	2411

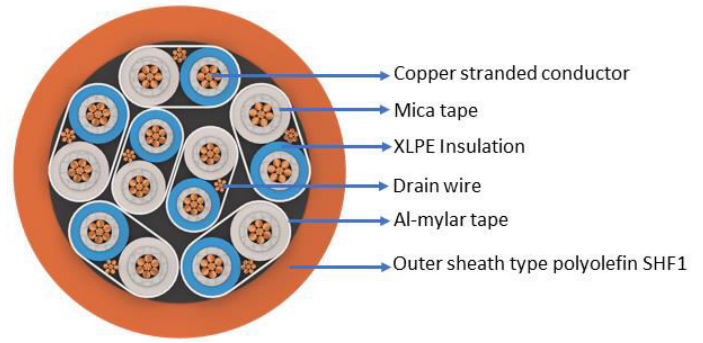
Electrical Parameter

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

OUR ACCREDITATION



Fire Survival Instrumentation cable XLPE Insulated Individual Shielded 150/250 (300) V



Outstanding Features

- Halogen Free
- Reduced Flame Propagation
- Flame Retardant
- Low Smoke Emission

Application

POLYCAB MARINE Single and Multipair Individual shielded Fire Survival Instrumentation cable is suitable to use in fixed installation in instrumentation, control and communication circuits on sea vessels and offshore platforms.

Voltage Rating

150/250 (300) V

Operation Temperature

Max.: 90°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,
- Pairs shielded with Al.Mylar tape along with drain wire,
- Individual shielded pairs assembled together (filler optional), taped
- 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

Note: As per the application/identification requirement, other colour also available on request.

Bending Radius

Min. 8D; D is cable diameter

Standard Follows

IEC 60228:2005
IEC 60092-350:2020
IEC 60092-376:2017
IEC 60092-360:2014

Test Voltage

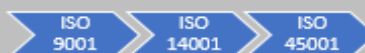
1500V AC at (20±5)°C

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 ACCREDITATION



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	0.40	1.0	7.4	66
ICIE31CXUAEV002P0.5SAXXXP	2	0.5	0.40	1.2	11.8	129
ICIE31CXUAEV003P0.5SAXXXP	3	0.5	0.40	1.2	12.6	167
ICIE31CXUAEV004P0.5SAXXXP	4	0.5	0.40	1.3	13.9	210
ICIE31CXUAEV005P0.5SAXXXP	5	0.5	0.40	1.3	15.3	254
ICIE31CXUAEV006P0.5SAXXXP	6	0.5	0.40	1.4	16.8	301
ICIE31CXUAEV007P0.5SAXXXP	7	0.5	0.40	1.4	16.8	332
ICIE31CXUAEV008P0.5SAXXXP	8	0.5	0.40	1.4	19.1	387
ICIE31CXUAEV010P0.5SAXXXP	10	0.5	0.40	1.5	21.8	482
ICIE31CXUAEV012P0.5SAXXXP	12	0.5	0.40	1.6	22.6	555
ICIE31CXUAEV014P0.5SAXXXP	14	0.5	0.40	1.6	23.9	634
ICIE31CXUAEV016P0.5SAXXXP	16	0.5	0.40	1.7	25.4	716
ICIE31CXUAEV018P0.5SAXXXP	18	0.5	0.40	1.7	26.9	799
ICIE31CXUAEV019P0.5SAXXXP	19	0.5	0.40	1.7	26.9	831
ICIE31CXUAEV020P0.5SAXXXP	20	0.5	0.40	1.8	28.5	885
ICIE31CXUAEV024P0.5SAXXXP	24	0.5	0.40	1.9	31.9	1062
ICIE31CXUAEV001P.75SAXXXP	1	0.75	0.50	1.0	8.3	80
ICIE31CXUAEV002P.75SAXXXP	2	0.75	0.50	1.2	13.4	159
ICIE31CXUAEV003P.75SAXXXP	3	0.75	0.50	1.3	14.3	208
ICIE31CXUAEV004P.75SAXXXP	4	0.75	0.50	1.3	15.8	262
ICIE31CXUAEV005P.75SAXXXP	5	0.75	0.50	1.4	17.4	318
ICIE31CXUAEV006P.75SAXXXP	6	0.75	0.50	1.5	19.2	377
ICIE31CXUAEV007P.75SAXXXP	7	0.75	0.50	1.5	19.2	417
ICIE31CXUAEV008P.75SAXXXP	8	0.75	0.50	1.5	21.8	487
ICIE31CXUAEV010P.75SAXXXP	10	0.75	0.50	1.7	25.0	607
ICIE31CXUAEV012P.75SAXXXP	12	0.75	0.50	1.7	25.9	700
ICIE31CXUAEV014P.75SAXXXP	14	0.75	0.50	1.8	27.4	800
ICIE31CXUAEV016P.75SAXXXP	16	0.75	0.50	1.8	29.1	905
ICIE31CXUAEV018P.75SAXXXP	18	0.75	0.50	1.9	30.8	1011
ICIE31CXUAEV019P.75SAXXXP	19	0.75	0.50	1.9	30.8	1052
ICIE31CXUAEV020P.75SAXXXP	20	0.75	0.50	2.0	32.7	1122
ICIE31CXUAEV024P.75SAXXXP	24	0.75	0.50	2.1	36.6	1347

OUR ACCREDITATION



Fire Survival Instrumentation cable XLPE Insulated Individual Shielded 150/250 (300) V

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)
ICIE31CXUAEV001P1.0SAXXXP	1	1	0.50	1.1	8.6	89
ICIE31CXUAEV002P1.0SAXXXP	2	1	0.50	1.3	14.0	179
ICIE31CXUAEV003P1.0SAXXXP	3	1	0.50	1.3	15.0	235
ICIE31CXUAEV004P1.0SAXXXP	4	1	0.50	1.4	16.6	297
ICIE31CXUAEV005P1.0SAXXXP	5	1	0.50	1.4	18.4	362
ICIE31CXUAEV006P1.0SAXXXP	6	1	0.50	1.5	20.2	429
ICIE31CXUAEV007P1.0SAXXXP	7	1	0.50	1.5	20.2	476
ICIE31CXUAEV008P1.0SAXXXP	8	1	0.50	1.6	23.0	555
ICIE31CXUAEV010P1.0SAXXXP	10	1	0.50	1.7	26.4	693
ICIE31CXUAEV012P1.0SAXXXP	12	1	0.50	1.8	27.4	800
ICIE31CXUAEV014P1.0SAXXXP	14	1	0.50	1.8	28.9	916
ICIE31CXUAEV016P1.0SAXXXP	16	1	0.50	1.9	30.7	1037
ICIE31CXUAEV018P1.0SAXXXP	18	1	0.50	1.9	32.6	1159
ICIE31CXUAEV019P1.0SAXXXP	19	1	0.50	1.9	32.6	1206
ICIE31CXUAEV020P1.0SAXXXP	20	1	0.50	2.0	34.6	1286
ICIE31CXUAEV024P1.0SAXXXP	24	1	0.50	2.2	38.7	1545
ICIE31CXUAEV001P1.5SAXXXP	1	1.5	0.60	1.1	9.7	111
ICIE31CXUAEV002P1.5SAXXXP	2	1.5	0.60	1.3	15.9	225
ICIE31CXUAEV003P1.5SAXXXP	3	1.5	0.60	1.4	17.1	297
ICIE31CXUAEV004P1.5SAXXXP	4	1.5	0.60	1.4	18.9	378
ICIE31CXUAEV005P1.5SAXXXP	5	1.5	0.60	1.5	20.9	461
ICIE31CXUAEV006P1.5SAXXXP	6	1.5	0.60	1.6	23.0	548
ICIE31CXUAEV007P1.5SAXXXP	7	1.5	0.60	1.6	23.0	609
ICIE31CXUAEV008P1.5SAXXXP	8	1.5	0.60	1.7	26.2	711
ICIE31CXUAEV010P1.5SAXXXP	10	1.5	0.60	1.9	30.1	889
ICIE31CXUAEV012P1.5SAXXXP	12	1.5	0.60	1.9	31.3	1029
ICIE31CXUAEV014P1.5SAXXXP	14	1.5	0.60	2.0	33.0	1180
ICIE31CXUAEV016P1.5SAXXXP	16	1.5	0.60	2.0	35.1	1336
ICIE31CXUAEV018P1.5SAXXXP	18	1.5	0.60	2.1	37.2	1495
ICIE31CXUAEV019P1.5SAXXXP	19	1.5	0.60	2.1	37.2	1557
ICIE31CXUAEV020P1.5SAXXXP	20	1.5	0.60	2.2	39.6	1660
ICIE31CXUAEV024P1.5SAXXXP	24	1.5	0.60	2.4	44.3	1997

OUR ACCREDITATION



Fire Survival Instrumentation cable XLPE Insulated Individual Shielded 150/250 (300) V

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)
ICIE31CXUAEV001P2.5SAXXXP	1	2.5	0.60	1.1	10.6	140
ICIE31CXUAEV002P2.5SAXXXP	2	2.5	0.60	1.4	17.6	286
ICIE31CXUAEV003P2.5SAXXXP	3	2.5	0.60	1.4	18.9	383
ICIE31CXUAEV004P2.5SAXXXP	4	2.5	0.60	1.5	20.9	489
ICIE31CXUAEV005P2.5SAXXXP	5	2.5	0.60	1.6	23.2	599
ICIE31CXUAEV006P2.5SAXXXP	6	2.5	0.60	1.7	25.5	713
ICIE31CXUAEV007P2.5SAXXXP	7	2.5	0.60	1.7	25.5	797
ICIE31CXUAEV008P2.5SAXXXP	8	2.5	0.60	1.8	29.1	929
ICIE31CXUAEV010P2.5SAXXXP	10	2.5	0.60	2.0	33.5	1163
ICIE31CXUAEV012P2.5SAXXXP	12	2.5	0.60	2.0	34.8	1351
ICIE31CXUAEV014P2.5SAXXXP	14	2.5	0.60	2.1	36.7	1552
ICIE31CXUAEV016P2.5SAXXXP	16	2.5	0.60	2.2	39.0	1760
ICIE31CXUAEV018P2.5SAXXXP	18	2.5	0.60	2.3	41.4	1972
ICIE31CXUAEV019P2.5SAXXXP	19	2.5	0.60	2.3	41.4	2056
ICIE31CXUAEV020P2.5SAXXXP	20	2.5	0.60	2.4	44.0	2190
ICIE31CXUAEV024P2.5SAXXXP	24	2.5	0.60	2.6	49.4	2636

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

OUR ACCREDITATION

