

POLY CAB 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

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Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB 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.

CHARACTERISTICS

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

Test Voltage

3500V AC at (20±5)°C

CONSTRUCTION

- Annealed plain stranded copper conductor as per IEC 60228, Class-2 / Class-5 (tinned on request),
- Mica Glass Taped,
- Extruded XLPE Insulation
- 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)

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 except last core i.e. Green-Yellow

OUTSTANDING FEATURES

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

STANDARD FOLLOWS

IEC 60228:2005

IEC 60092-350:2020

IEC 60092-352:

IEC 60092-353:2016

IEC 60092-360:2014

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 ACCREDITATIONS



APPROVAL



NOTES

Colour: Black. (other colours available on request).
Extruded HEPR Insulation available on demand

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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)
BCIE07CXCBEV001C1.5SAXXXP	1	1.5	0.7	0.2	6.4	70
BCIE07CXCBEV001C2.5SAXXXP	1	2.5	0.7	0.2	6.9	85
BCIE07CXCBEV001C4.0SAXXXP	1	4	0.7	0.2	7.4	105
BCIE07CXCBEV001C6.0SAXXXP	1	6	0.7	0.2	8	130
BCIE07CXCBEV001C010SAXXXP	1	10	0.7	0.2	8.9	180
BCIE07CXCBEV001C016SAXXXP	1	16	0.7	0.2	10.2	255
BCIE07CXCBEV001C025SAXXXP	1	25	0.9	0.2	11.9	370
BCIE07CXCBEV001C035SAXXXP	1	35	0.9	0.2	13.2	480
BCIE07CXCBEV001C050SAXXXP	1	50	1	0.2	14.9	645
BCIE07CXCBEV001C070SAXXXP	1	70	1.1	0.3	17.5	905
BCIE07CXCBEV001C095SAXXXP	1	95	1.1	0.3	19.5	1180
BCIE07CXCBEV001C120SAXXXP	1	120	1.2	0.3	21.4	1455
BCIE07CXCBEV001C150SAXXXP	1	150	1.4	0.3	23.5	1780
BCIE07CXCBEV001C185SAXXXP	1	185	1.6	0.3	25.8	2165
BCIE07CXCBEV001C240SAXXXP	1	240	1.7	0.3	28.6	2745
BCIE07CXCBEV001C300SAXXXP	1	300	1.8	0.3	31.4	3370
BCIE07CXCBEV002C1.5SAXXXP	2	1.5	0.7	0.2	10.2	145
BCIE07CXCBEV002C2.5SAXXXP	2	2.5	0.7	0.2	11	165
BCIE07CXCBEV002C4.0SAXXXP	2	4	0.7	0.2	12.1	210
BCIE07CXCBEV002C6.0SAXXXP	2	6	0.7	0.2	13.4	285
BCIE07CXCBEV002C010SAXXXP	2	10	0.7	0.2	15.3	395
BCIE07CXCBEV002C016SAXXXP	2	16	0.7	0.3	18.1	595
BCIE07CXCBEV002C025SAXXXP	2	25	0.9	0.3	22	875
BCIE07CXCBEV002C035SAXXXP	2	35	0.9	0.3	24.3	1115
BCIE07CXCBEV002C050SAXXXP	2	50	1	0.3	28	1515
BCIE07CXCBEV002C070SAXXXP	2	70	1.1	0.3	32.1	2025
BCIE07CXCBEV002C095SAXXXP	2	95	1.1	0.3	35.9	2615
BCIE07CXCBEV002C120SAXXXP	2	120	1.2	0.3	39.6	3220

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BCIE07CXCBEV002C150SAXXXP	2	150	1.4	0.4	44.7	4085
BCIE07CXCBEV002C185SAXXXP	2	185	1.6	0.4	49.3	4970
BCIE07CXCBEV002C240SAXXXP	2	240	1.7	0.4	55	6275
BCIE07CXCBEV003C1.5SAXXXP	3	1.5	0.7	0.2	10.7	165
BCIE07CXCBEV003C2.5SAXXXP	3	2.5	0.7	0.2	11.6	205
BCIE07CXCBEV003C4.0SAXXXP	3	4	0.7	0.2	13.1	275
BCIE07CXCBEV003C6.0SAXXXP	3	6	0.7	0.2	14.2	345
BCIE07CXCBEV003C010SAXXXP	3	10	0.7	0.3	16.9	535
BCIE07CXCBEV003C016SAXXXP	3	16	0.7	0.3	19.4	755
BCIE07CXCBEV003C025SAXXXP	3	25	0.9	0.3	23.4	1105
BCIE07CXCBEV003C035SAXXXP	3	35	0.9	0.3	26	1435
BCIE07CXCBEV003C050SAXXXP	3	50	1	0.3	29.9	1955
BCIE07CXCBEV003C070SAXXXP	3	70	1.1	0.3	34.5	2645
BCIE07CXCBEV003C095SAXXXP	3	95	1.1	0.3	38.6	3445
BCIE07CXCBEV003C120SAXXXP	3	120	1.2	0.4	43.2	4385
BCIE07CXCBEV003C150SAXXXP	3	150	1.4	0.4	47.9	5385
BCIE07CXCBEV003C185SAXXXP	3	185	1.6	0.4	52.9	6565
BCIE07CXCBEV003C240SAXXXP	3	240	1.7	0.4	59	8320
BCIE07CXCBEV003C300SAXXXP	3	300	1.8	0.4	64.9	10235
BCIE07CXCBEV003C035SAXXXP	3	35 *	0.9	0.3	21.8	1330
BCIE07CXCBEV003C050SAXXXP	3	50 *	1	0.3	24.9	1835
BCIE07CXCBEV003C070SAXXXP	3	70 *	1.1	0.3	28.4	2485
BCIE07CXCBEV003C095SAXXXP	3	95 *	1.1	0.3	31.7	3260
BCIE07CXCBEV003C120SAXXXP	3	120 *	1.2	0.4	35.3	4150
BCIE07CXCBEV003C150SAXXXP	3	150 *	1.4	0.4	38.9	5100
BCIE07CXCBEV003C185SAXXXP	3	185 *	1.6	0.4	43	6245
BCIE07CXCBEV003C240SAXXXP	4	1.5	0.7	0.2	11.6	195
BCIE07CXCBEV003C300SAXXXP	4	2.5	0.7	0.2	12.6	250
BCIE07CXCBEV004C1.5SAXXXP	4	4	0.7	0.2	14.2	340

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BCIE07CXCBEV004C2.5SAXXXP	4	6	0.7	0.3	16.2	475
BCIE07CXCBEV004C4.0SAXXXP	4	10	0.7	0.3	18.5	670
BCIE07CXCBEV004C6.0SAXXXP	4	16	0.7	0.3	21.2	945
BCIE07CXCBEV004C010SAXXXP	4	25	0.9	0.3	25.8	1415
BCIE07CXCBEV004C016SAXXXP	4	35	0.9	0.3	28.8	1850
BCIE07CXCBEV004C025SAXXXP	4	50	1	0.3	33.3	2540
BCIE07CXCBEV004C035SAXXXP	4	70	1.1	0.3	38.2	3420
BCIE07CXCBEV004C095SAXXXP	4	95	1.1	0.4	43.4	4595
BCIE07CXCBEV004C120SAXXXP	4	120	1.2	0.4	47.8	5675
BCIE07CXCBEV004C035SAXXXP	4	150	1.4	0.4	53.2	7015
BCIE07CXCBEV004C050SAXXXP	4	185	1.6	0.4	58.8	8555
BCIE07CXCBEV004C070SAXXXP	4	240	1.7	0.4	65.6	10865
BCIE07CXCBEV004C095SAXXXP	4	300	1.8	0.4	71.9	13340
BCIE07CXCBEV004C120SAXXXP	4	35 *	0.9	0.3	25.9	1910
BCIE07CXCBEV005C4.0SAXXXP	4	50 *	1	0.3	29.8	2635
BCIE07CXCBEV005C6.0SAXXXP	4	70 *	1.1	0.3	34.3	3595
BCIE07CXCBEV005C010SAXXXP	4	95 *	1.1	0.4	38.9	4795
BCIE07CXCBEV005C016SAXXXP	4	120 *	1.2	0.4	41.5	5875
BCIE07CXCBEV005C025SAXXXP	5	4	0.7	0.2	15.4	400
BCIE07CXCBEV005C035SAXXXP	5	6	0.7	0.3	17.6	565
BCIE07CXCBEV005C050SAXXXP	5	10	0.7	0.3	20.3	815
BCIE07CXCBEV005C070SAXXXP	5	16	0.7	0.3	23.4	1155
BCIE07CXCBEV005C095SAXXXP	5	25	0.9	0.3	28.5	1730
BCIE07CXCBEV005C1.5SAXXXP	5	35	0.9	0.3	32.4	2315
BCIE07CXCBEV007C1.5SAXXXP	5	50	1	0.3	36.9	3135
BCIE07CXCBEV010C1.5SAXXXP	5	70	1.1	0.4	42.4	4280
BCIE07CXCBEV012C1.5SAXXXP	5	95	1.1	0.4	47.2	5570
BCIE07CXCBEV014C1.5SAXXXP	5	1.5	0.7	0.2	12.6	230
BCIE07CXCBEV016C1.5SAXXXP	7	1.5	0.7	0.2	13.8	295

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BCIE07CXCBEV019C1.5SAXXXP	10	1.5	0.7	0.3	17.9	455
BCIE07CXCBEV024C1.5SAXXXP	12	1.5	0.7	0.3	18.5	505
BCIE07CXCBEV027C1.5SAXXXP	14	1.5	0.7	0.3	19.5	575
BCIE07CXCBEV037C1.5SAXXXP	16	1.5	0.7	0.3	20.5	635
BCIE07CXCBEV005C2.5SAXXXP	19	1.5	0.7	0.3	21.6	720
BCIE07CXCBEV007C2.5SAXXXP	24	1.5	0.7	0.3	25.2	900
BCIE07CXCBEV010C2.5SAXXXP	27	1.5	0.7	0.3	25.7	980
BCIE07CXCBEV012C2.5SAXXXP	37	1.5	0.7	0.3	28.8	1270
BCIE07CXCBEV004C095SAXXXP	5	2.5	0.7	0.2	13.9	300
BCIE07CXCBEV004C120SAXXXP	7	2.5	0.7	0.2	15.1	380
BCIE07CXCBEV004C035SAXXXP	10	2.5	0.7	0.3	19.8	590
BCIE07CXCBEV004C050SAXXXP	12	2.5	0.7	0.3	20.4	665
BCIE07CXCBEV014C2.5SAXXXP	14	2.5	0.7	0.3	21.4	745
BCIE07CXCBEV016C2.5SAXXXP	16	2.5	0.7	0.3	22.7	840
BCIE07CXCBEV019C2.5SAXXXP	19	2.5	0.7	0.3	23.9	955
BCIE07CXCBEV024C2.5SAXXXP	24	2.5	0.7	0.3	27.9	1195
BCIE07CXCBEV027C2.5SAXXXP	27	2.5	0.7	0.3	28.5	1305
BCIE07CXCBEV030C2.5SAXXXP	30	2.5	0.7	0.3	29.7	1435
BCIE07CXCBEV037C2.5SAXXXP	37	2.5	0.7	0.3	32.4	1740

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ELECTRICAL CHARACTERISTICS:

Conductor cross-sectional area mm ²	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 *
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