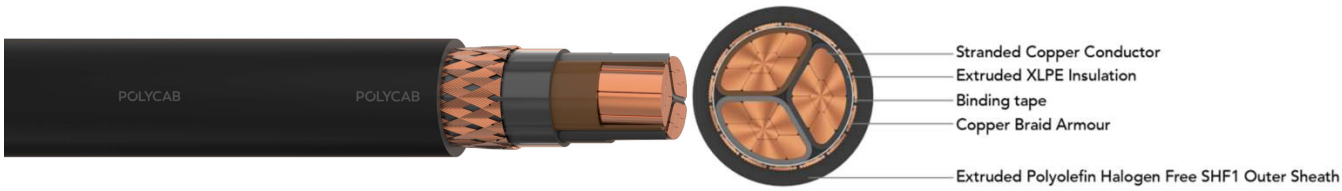
POLYCAB MARINE IEC 60092-353 0.6/1.0 kV ARM
Armoured Power and Control Cable, 0.6/1.0 (1.2) kV AC



Images not to scale. Follow table for dimensions

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

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 (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),
- Extruded XLPE Insulation, (Extruded HEPR Insulation available on demand)
- Insulated Cores assembled together
- 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

- 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 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).
Fillers / Inner covering / Binding tape optional)

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IDEAS. CONNECTED.

DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm²)	Nom. Insulation Thickness (mm)	Nom.Braid Wire Dia. (mm)	Nom.Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
BCIE07CXCBEV01C1.5SSAXXXP	1	1.5	0.7	0.2	6	60
BCIE07CXCBEV01C2.5SSAXXXP	1	2.5	0.7	0.2	6.4	75
BCIE07CXCBEV01C004SSAXXXP	1	4	0.7	0.2	7	95
BCIE07CXCBEV01C006SSAXXXP	1	6	0.7	0.2	7.5	120
BCIE07CXCBEV01C010SSAXXXP	1	10	0.7	0.2	8.5	170
BCIE07CXCBEV01C016SSAXXXP	1	16	0.7	0.2	9.7	240
BCIE07CXCBEV01C025SSAXXXP	1	25	0.9	0.2	11.5	350
BCIE07CXCBEV01C035SSAXXXP	1	35	0.9	0.2	12.8	460
BCIE07CXCBEV01C050SSAXXXP	1	50	1	0.2	14.5	625
BCIE07CXCBEV01C070SSAXXXP	1	70	1.1	0.3	17	880
BCIE07CXCBEV01C095SSAXXXP	1	95	1.1	0.3	19	1150
BCIE07CXCBEV01C120SSAXXXP	1	120	1.2	0.3	21	1425
BCIE07CXCBEV01C150SSAXXXP	1	150	1.4	0.3	23	1745
BCIE07CXCBEV01C185SSAXXXP	1	185	1.6	0.3	25.4	2125
BCIE07CXCBEV01C240SSAXXXP	1	240	1.7	0.3	28.2	2700
BCIE07CXCBEV01C300SSAXXXP	1	300	1.8	0.3	31	3325
BCIE07CXCBEV02C1.5SSAXXXP	2	1.5	0.7	0.2	9.3	125
BCIE07CXCBEV02C2.5SSAXXXP	2	2.5	0.7	0.2	10.1	145
BCIE07CXCBEV02C004SSAXXXP	2	4	0.7	0.2	11.3	190
BCIE07CXCBEV02C006SSAXXXP	2	6	0.7	0.2	12.5	260
BCIE07CXCBEV02C010SSAXXXP	2	10	0.7	0.2	14.4	365
BCIE07CXCBEV02C016SSAXXXP	2	16	0.7	0.3	17.2	555
BCIE07CXCBEV02C025SSAXXXP	2	25	0.9	0.3	21.1	830
BCIE07CXCBEV02C035SSAXXXP	2	35	0.9	0.3	23.4	1065
BCIE07CXCBEV02C050SSAXXXP	2	50	1	0.3	27.2	1460
BCIE07CXCBEV02C070SSAXXXP	2	70	1.1	0.3	31.3	1960
BCIE07CXCBEV02C095SSAXXXP	2	95	1.1	0.3	35	2545
BCIE07CXCBEV02C120SSAXXXP	2	120	1.2	0.3	38.8	3140
BCIE07CXCBEV02C150SSAXXXP	2	150	1.4	0.4	43.8	3995
BCIE07CXCBEV02C185SSAXXXP	2	185	1.6	0.4	48.4	4870
BCIE07CXCBEV02C240SSAXXXP	2	240	1.7	0.4	54.1	6165

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BCIE07CXCBEV03C1.5SSAXXXP	3	1.5	0.7	0.2	9.8	140
BCIE07CXCBEV03C2.5SSAXXXP	3	2.5	0.7	0.2	10.7	180
BCIE07CXCBEV03C004SSAXXXP	3	4	0.7	0.2	12.1	245
BCIE07CXCBEV03C006SSAXXXP	3	6	0.7	0.2	13.3	315
BCIE07CXCBEV03C010SSAXXXP	3	10	0.7	0.3	16	500
BCIE07CXCBEV03C016SSAXXXP	3	16	0.7	0.3	18.5	710
BCIE07CXCBEV03C025SSAXXXP	3	25	0.9	0.3	22.4	1050
BCIE07CXCBEV03C035SSAXXXP	3	35	0.9	0.3	25.1	1380
BCIE07CXCBEV03C050SSAXXXP	3	50	1	0.3	28.9	1885
BCIE07CXCBEV03C070SSAXXXP	3	70	1.1	0.3	33.5	2565
BCIE07CXCBEV03C095SSAXXXP	3	95	1.1	0.3	37.6	3360
BCIE07CXCBEV03C120SSAXXXP	3	120	1.2	0.4	42.3	4285
BCIE07CXCBEV03C150SSAXXXP	3	150	1.4	0.4	46.9	5275
BCIE07CXCBEV03C185SSAXXXP	3	185	1.6	0.4	52	6440
BCIE07CXCBEV03C240SSAXXXP	3	240	1.7	0.4	58	8185
BCIE07CXCBEV03C300SSAXXXP	3	300	1.8	0.4	64	10085
BCIE07CXCBEV03C035SSAXXXP	3	35 *	0.9	0.3	20.8	1280
BCIE07CXCBEV03C050SSAXXXP	3	50 *	1	0.3	23.9	1775
BCIE07CXCBEV03C070SSAXXXP	3	70 *	1.1	0.3	27.5	2420
BCIE07CXCBEV03C095SSAXXXP	3	95 *	1.1	0.3	30.5	3170
BCIE07CXCBEV03C120SSAXXXP	3	120 *	1.2	0.4	34.3	4065
BCIE07CXCBEV03C150SSAXXXP	3	150 *	1.4	0.4	38	5010
BCIE07CXCBEV03C185SSAXXXP	3	185 *	1.6	0.4	42.1	6150
BCIE07CXCBEV04C1.5SSAXXXP	4	1.5	0.7	0.2	10.5	170
BCIE07CXCBEV04C2.5SSAXXXP	4	2.5	0.7	0.2	11.6	220
BCIE07CXCBEV04C004SSAXXXP	4	4	0.7	0.2	13.1	305
BCIE07CXCBEV04C006SSAXXXP	4	6	0.7	0.3	15.2	430
BCIE07CXCBEV04C010SSAXXXP	4	10	0.7	0.3	17.4	620
BCIE07CXCBEV04C016SSAXXXP	4	16	0.7	0.3	20.2	890
BCIE07CXCBEV04C025SSAXXXP	4	25	0.9	0.3	24.8	1350
BCIE07CXCBEV04C035SSAXXXP	4	35	0.9	0.3	27.7	1775
BCIE07CXCBEV04C050SSAXXXP	4	50	1	0.3	32.2	2450

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BCIE07CXCBEV04C070SSAXXXP	4	70	1.1	0.3	37.1	3320
BCIE07CXCBEV04C095SSAXXXP	4	95	1.1	0.4	42.3	4480
BCIE07CXCBEV04C120SSAXXXP	4	120	1.2	0.4	46.8	5545
BCIE07CXCBEV04C150SSAXXXP	4	150	1.4	0.4	52.2	6870
BCIE07CXCBEV04C185SSAXXXP	4	185	1.6	0.4	57.7	8400
BCIE07CXCBEV04C240SSAXXXP	4	240	1.7	0.4	64.5	10690
BCIE07CXCBEV04C300SSAXXXP	4	300	1.8	0.4	70.9	13145
BCIE07CXCBEV04C035SSAXXXP	4	35 *	0.9	0.3	24.9	1825
BCIE07CXCBEV04C050SSAXXXP	4	50 *	1	0.3	28.7	2540
BCIE07CXCBEV04C070SSAXXXP	4	70 *	1.1	0.3	33.3	3485
BCIE07CXCBEV04C095SSAXXXP	4	95 *	1.1	0.4	37.8	4665
BCIE07CXCBEV04C120SSAXXXP	4	120 *	1.2	0.4	40.5	5740
BCIE07CXCBEV05C004SSAXXXP	5	4	0.7	0.2	14.3	360
BCIE07CXCBEV05C006SSAXXXP	5	6	0.7	0.3	16.4	515
BCIE07CXCBEV05C010SSAXXXP	5	10	0.7	0.3	19.1	755
BCIE07CXCBEV05C016SSAXXXP	5	16	0.7	0.3	22.2	1085
BCIE07CXCBEV05C025SSAXXXP	5	25	0.9	0.3	27.3	1650
BCIE07CXCBEV05C035SSAXXXP	5	35	0.9	0.3	31.2	2220
BCIE07CXCBEV05C050SSAXXXP	5	50	1	0.3	35.8	3030
BCIE07CXCBEV05C070SSAXXXP	5	70	1.1	0.4	41.2	4155
BCIE07CXCBEV05C095SSAXXXP	5	95	1.1	0.4	46.1	5430
BCIE07CXCBEV05C1.5SSAXXXP	5	1.5	0.7	0.2	11.4	200
BCIE07CXCBEV07C1.5SSAXXXP	7	1.5	0.7	0.2	12.5	250
BCIE07CXCBEV10C1.5SSAXXXP	10	1.5	0.7	0.3	16.2	390
BCIE07CXCBEV12C1.5SSAXXXP	12	1.5	0.7	0.3	16.6	435
BCIE07CXCBEV14C1.5SSAXXXP	14	1.5	0.7	0.3	17.6	490
BCIE07CXCBEV16C1.5SSAXXXP	16	1.5	0.7	0.3	18.5	540
BCIE07CXCBEV19C1.5SSAXXXP	19	1.5	0.7	0.3	19.4	610
BCIE07CXCBEV24C1.5SSAXXXP	24	1.5	0.7	0.3	22.6	765
BCIE07CXCBEV27C1.5SSAXXXP	27	1.5	0.7	0.3	23	830
BCIE07CXCBEV37C1.5SSAXXXP	37	1.5	0.7	0.3	25.8	1070
BCIE07CXCBEV05C2.5SSAXXXP	5	2.5	0.7	0.2	12.7	265

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BCIE07CXCBEV07C2.5SSAXXXP	7	2.5	0.7	0.2	13.7	330
BCIE07CXCBEV10C2.5SSAXXXP	10	2.5	0.7	0.3	18.1	515
BCIE07CXCBEV12C2.5SSAXXXP	12	2.5	0.7	0.3	18.6	580
BCIE07CXCBEV14C2.5SSAXXXP	14	2.5	0.7	0.3	19.5	650
BCIE07CXCBEV16C2.5SSAXXXP	16	2.5	0.7	0.3	20.7	730
BCIE07CXCBEV19C2.5SSAXXXP	19	2.5	0.7	0.3	21.7	830
BCIE07CXCBEV24C2.5SSAXXXP	24	2.5	0.7	0.3	25.3	1040
BCIE07CXCBEV27C2.5SSAXXXP	27	2.5	0.7	0.3	25.8	1135
BCIE07CXCBEV30C2.5SSAXXXP	30	2.5	0.7	0.3	26.9	1245
BCIE07CXCBEV37C2.5SSAXXXP	37	2.5	0.7	0.3	29.1	1495

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 *
mm²	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