

POLY CAB MARINE IEC 60092-353 1.8/3.0 kV ARM Armoured Power and Control Cable, 1.8/3.0 (3.6) kV AC

POLY CAB
IDEAS. CONNECTED.



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB 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

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

Test Voltage

6500V 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;
- 3 core: brown, black, grey;

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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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)
BCIE44CXCBEV01C120SSAXXXP	1	120	2.0	0.30	24.6	1600
BCIE44CXCBEV01C150SSAXXXP	1	150	2.0	0.30	26.4	1900
BCIE44CXCBEV01C185SSAXXXP	1	185	2.0	0.30	28.2	2285
BCIE44CXCBEV01C240SSAXXXP	1	240	2.0	0.30	30.7	2830
BCIE44CXCBEV01C300SSAXXXP	1	300	2.0	0.30	33.4	3470
BCIE44CXCBEV03C095SSAXXXP	3	95	2.0	0.40	44.2	4430
BCIE44CXCBEV03C120SSAXXXP	3	120	2.0	0.40	47.7	5340
BCIE44CXCBEV03C150SSAXXXP	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		
	at 20°C DC	Class-2 at 90°C AC	at 20°C DC Ohm/km	Class-5 at 90°C AC	1C 1.0 * Amps	3C 0.70 * 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