POLYCAB MARINE IEC 60092-354 6/10 kV ARM
Armoured Medium Voltage Cables, 6/10 (12) kV AC

Images not to scale. Follow table for dimensions

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.

CHARACTERISTICS

Voltage Rating
6/10 (12) KV AC
Operation Temperature
-30°C to +90°C
Short Circuit Temp. 250°C
Bending Radius
Min. 12D (Single Core); Min. 9D (3 Core);
D is cable diameter

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

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), **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 60092-352:2005
IEC 60092-354:2020
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: Red. (other colours available on request).

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POLYCAB
IDEAS. CONNECTED.

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)
BCIE22CXCBEV001C050SSAXXXP	1	50	3.4	24.5	1130
BCIE22CXCBEV001C070SSAXXXP	1	70	3.4	26.5	1390
BCIE22CXCBEV001C095SSAXXXP	1	95	3.4	28.5	1690
BCIE22CXCBEV001C120SSAXXXP	1	120	3.4	30.0	1970
BCIE22CXCBEV001C150SSAXXXP	1	150	3.4	32.0	2320
BCIE22CXCBEV001C185SSAXXXP	1	185	3.4	34.5	2820
BCIE22CXCBEV001C240SSAXXXP	1	240	3.4	37.5	3420
BCIE22CXCBEV003C035SSAXXXP	3	35	3.4	45.0	3320
BCIE22CXCBEV003C050SSAXXXP	3	50	3.4	48.5	4040
BCIE22CXCBEV003C070SSAXXXP	3	70	3.4	53.0	4990
BCIE22CXCBEV003C095SSAXXXP	3	95	3.4	57.0	6070
BCIE22CXCBEV003C120SSAXXXP	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 1.0 *	3C 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