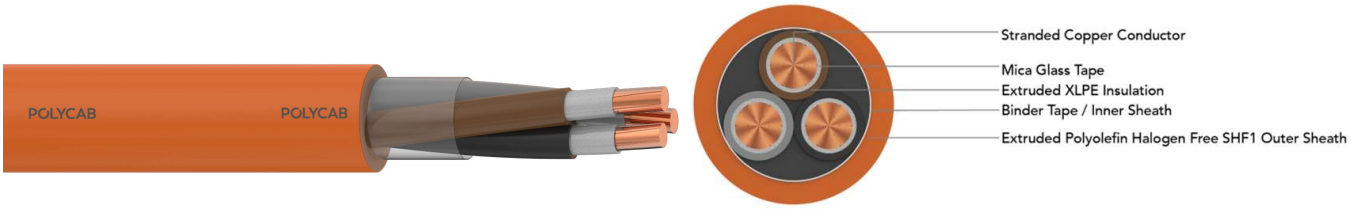
POLYCAB MARINE IEC 60092-353 0.6/1.0 kV FS UAR
Fire Survival UA Power and Control Cable, 0.6/1.0 (1.2) kV AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB MARINE Single and Multicore core 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.

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; D is cable diameter
Test Voltage
3500V AC at (20±5)°C

CONSTRUCTION

- Annealed plain stranded copper conductor as perIEC 60228, Class-2 / Class-5 (tinned on request),
- Mica Glass taped,
- Extruded XLPE Insulation,
- Insulated Cores assembled together, (fillers/tape/inner sheath optional)
- Extruded Polyolefin Halogen Free SHF1 Outer Sheath(Halogen Free 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 37GC 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 60092-353:2016
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

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 (mm²)	Nom. Insulation Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
FSIE07CXUAEV001C1.5SAXXXP	1	1.5	0.7	5.4	50
FSIE07CXUAEV001C2.5SAXXXP	1	2.5	0.7	5.9	60
FSIE07CXUAEV001C4.0SAXXXP	1	4	0.7	6.4	80
FSIE07CXUAEV001C6.0SAXXXP	1	6	0.7	7	105
FSIE07CXUAEV001C010SAXXXP	1	10	0.7	7.9	150
FSIE07CXUAEV001C016SAXXXP	1	16	0.7	9	215
FSIE07CXUAEV001C025SAXXXP	1	25	0.9	10.9	325
FSIE07CXUAEV001C035SAXXXP	1	35	0.9	12	415
FSIE07CXUAEV001C050SAXXXP	1	50	1	13.9	590
FSIE07CXUAEV001C070SAXXXP	1	70	1.1	16	800
FSIE07CXUAEV001C095SAXXXP	1	95	1.1	17.8	1055
FSIE07CXUAEV001C120SAXXXP	1	120	1.2	19.7	1315
FSIE07CXUAEV001C150SAXXXP	1	150	1.4	22	1635
FSIE07CXUAEV001C185SAXXXP	1	185	1.6	24.1	1995
FSIE07CXUAEV001C240SAXXXP	1	240	1.7	26.9	2550
FSIE07CXUAEV001C300SAXXXP	1	300	1.8	29.7	3160
FSIE07CXUAEV002C1.5SAXXXP	2	1.5	0.7	8.9	105
FSIE07CXUAEV002C2.5SAXXXP	2	2.5	0.7	9.9	135
FSIE07CXUAEV002C4.0SAXXXP	2	4	0.7	11.1	185
FSIE07CXUAEV002C6.0SAXXXP	2	6	0.7	12.2	235
FSIE07CXUAEV002C010SAXXXP	2	10	0.7	14.2	345
FSIE07CXUAEV002C016SAXXXP	2	16	0.7	16.5	500
FSIE07CXUAEV002C025SAXXXP	2	25	0.9	20.2	755
FSIE07CXUAEV002C035SAXXXP	2	35	0.9	22.7	995
FSIE07CXUAEV002C050SAXXXP	2	50	1	26.3	1225
FSIE07CXUAEV002C070SAXXXP	2	70	1.1	30.1	1655
FSIE07CXUAEV002C095SAXXXP	2	95	1.1	34.1	2200
FSIE07CXUAEV002C120SAXXXP	2	120	1.2	37.8	2740

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Product Code	No. of Cores	Cross Sectional Area (mm²)	Nom. Insulation Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
FSIE07CXUAEV002C150SAXXXP	2	150	1.4	42.2	3390
FSIE07CXUAEV002C185SAXXXP	2	185	1.6	46.8	4170
FSIE07CXUAEV002C240SAXXXP	2	240	1.7	52.5	5330
FSIE07CXUAEV002C300SAXXXP	2	300	1.8	57.8	6570
FSIE07CXUAEV002C050SAXXXP	2	50 *	1	20.5	1145
FSIE07CXUAEV002C070SAXXXP	2	70 *	1.1	23.4	1560
FSIE07CXUAEV002C095SAXXXP	2	95 *	1.1	26.2	2070
FSIE07CXUAEV002C120SAXXXP	2	120 *	1.2	28.1	2575
FSIE07CXUAEV002C150SAXXXP	2	150 *	1.4	31.2	3190
FSIE07CXUAEV002C185SAXXXP	2	185*	1.6	34.7	3940
FSIE07CXUAEV002C240SAXXXP	2	240 *	1.7	38.6	5035
FSIE07CXUAEV002C300SAXXXP	2	300 *	1.8	42.4	6250
FSIE07CXUAEV003C1.5SAXXXP	3	1.5	0.7	9.4	120
FSIE07CXUAEV003C2.5SAXXXP	3	2.5	0.7	10.5	160
FSIE07CXUAEV003C4.0SAXXXP	3	4	0.7	11.8	220
FSIE07CXUAEV003C6.0SAXXXP	3	6	0.7	13.1	290
FSIE07CXUAEV003C010SAXXXP	3	10	0.7	15.2	430
FSIE07CXUAEV003C016SAXXXP	3	16	0.7	17.6	625
FSIE07CXUAEV003C025SAXXXP	3	25	0.9	21.6	950
FSIE07CXUAEV003C035SAXXXP	3	35	0.9	24.3	1265
FSIE07CXUAEV003C050SAXXXP	3	50	1	28.3	1770
FSIE07CXUAEV003C070SAXXXP	3	70	1.1	32.5	2395
FSIE07CXUAEV003C095SAXXXP	3	95	1.1	36.6	3170
FSIE07CXUAEV003C120SAXXXP	3	120	1.2	40.7	3970
FSIE07CXUAEV003C150SAXXXP	3	150	1.4	45.4	4925
FSIE07CXUAEV003C185SAXXXP	3	185	1.6	50.4	6055
FSIE07CXUAEV003C240SAXXXP	3	240	1.7	56.5	7750
FSIE07CXUAEV003C300SAXXXP	3	300	1.8	62.4	9605
FSIE07CXUAEV003C035SAXXXP	3	35 *	0.9	20	1185

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Product Code	No. of Cores	Cross Sectional Area (mm²)	Nom. Insulation Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
FSIE07CXUAEV003C050SAXXXP	3	50 *	1	23.3	1680
FSIE07CXUAEV003C070SAXXXP	3	70 *	1.1	26.6	2300
FSIE07CXUAEV003C095SAXXXP	3	95 *	1.1	29.7	3035
FSIE07CXUAEV003C120SAXXXP	3	120 *	1.2	32.8	3820
FSIE07CXUAEV003C150SAXXXP	3	150 *	1.4	36.4	4730
FSIE07CXUAEV003C185SAXXXP	3	185*	1.6	40.5	5840
FSIE07CXUAEV003C240SAXXXP	3	240 *	1.7	45.2	7465
FSIE07CXUAEV003C300SAXXXP	3	300 *	1.8	49.8	9295
FSIE07CXUAEV004C1.5SAXXXP	4	1.5	0.7	10.5	155
FSIE07CXUAEV004C2.5SAXXXP	4	2.5	0.7	11.5	200
FSIE07CXUAEV004C4.0SAXXXP	4	4	0.7	13.1	285
FSIE07CXUAEV004C6.0SAXXXP	4	6	0.7	14.4	370
FSIE07CXUAEV004C010SAXXXP	4	10	0.7	16.9	560
FSIE07CXUAEV004C016SAXXXP	4	16	0.7	19.7	820
FSIE07CXUAEV004C025SAXXXP	4	25	0.9	24	1250
FSIE07CXUAEV004C035SAXXXP	4	35	0.9	27	1660
FSIE07CXUAEV004C050SAXXXP	4	50	1	31.5	2320
FSIE07CXUAEV004C070SAXXXP	4	70	1.1	36.2	3150
FSIE07CXUAEV004C095SAXXXP	4	95	1.1	40.9	4190
FSIE07CXUAEV004C120SAXXXP	4	120	1.2	45.3	5225
FSIE07CXUAEV004C035SAXXXP	4	35 *	0.9	24.1	1740
FSIE07CXUAEV004C050SAXXXP	4	50 *	1	28.2	2460
FSIE07CXUAEV004C070SAXXXP	4	70 *	1.1	32.3	3355
FSIE07CXUAEV004C095SAXXXP	4	95 *	1.1	36.4	4435
FSIE07CXUAEV004C120SAXXXP	4	120 *	1.2	39	5095
FSIE07CXUAEV005C4.0SAXXXP	5	4	0.7	14.4	350
FSIE07CXUAEV005C6.0SAXXXP	5	6	0.7	16	470
FSIE07CXUAEV005C010SAXXXP	5	10	0.7	18.6	705
FSIE07CXUAEV005C016SAXXXP	5	16	0.7	21.6	1040

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FSIE07CXUAEV005C025SAXXXP	5	25	0.9	26.7	1600
FSIE07CXUAEV005C035SAXXXP	5	35	0.9	30	2130
FSIE07CXUAEV005C050SAXXXP	5	50	1	34.9	2980
FSIE07CXUAEV005C070SAXXXP	5	70	1.1	40.3	4065
FSIE07CXUAEV005C095SAXXXP	5	95	1.1	45.3	5385
FSIE07CXUAEV005C1.5SAXXXP	5	1.5	0.7	11.5	185
FSIE07CXUAEV007C1.5SAXXXP	7	1.5	0.7	12.5	240
FSIE07CXUAEV010C1.5SAXXXP	10	1.5	0.7	16.2	340
FSIE07CXUAEV012C1.5SAXXXP	12	1.5	0.7	16.9	400
FSIE07CXUAEV014C1.5SAXXXP	14	1.5	0.7	17.8	455
FSIE07CXUAEV016C1.5SAXXXP	16	1.5	0.7	18.8	515
FSIE07CXUAEV019C1.5SAXXXP	19	1.5	0.7	20	605
FSIE07CXUAEV024C1.5SAXXXP	24	1.5	0.7	23.6	765
FSIE07CXUAEV027C1.5SAXXXP	27	1.5	0.7	24.1	845
FSIE07CXUAEV037C1.5SAXXXP	37	1.5	0.7	27.3	1130
FSIE07CXUAEV005C2.5SAXXXP	5	2.5	0.7	12.6	245
FSIE07CXUAEV007C2.5SAXXXP	7	2.5	0.7	14	325
FSIE07CXUAEV010C2.5SAXXXP	10	2.5	0.7	18	465
FSIE07CXUAEV012C2.5SAXXXP	12	2.5	0.7	18.7	540
FSIE07CXUAEV014C2.5SAXXXP	14	2.5	0.7	19.8	625
FSIE07CXUAEV016C2.5SAXXXP	16	2.5	0.7	20.9	705
FSIE07CXUAEV019C2.5SAXXXP	19	2.5	0.7	22.1	820
FSIE07CXUAEV024C2.5SAXXXP	24	2.5	0.7	26.4	1050
FSIE07CXUAEV027C2.5SAXXXP	27	2.5	0.7	26.9	1160
FSIE07CXUAEV030C2.5SAXXXP	30	2.5	0.7	27.9	1275
FSIE07CXUAEV037C2.5SAXXXP	37	2.5	0.7	30.4	1555

Note: * Sector shaped conductor

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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 1.0 *	2C 0.85 *	3C 0.70 *	4C 0.70 *	5C 0.58 *	7C 0.52 *	12C 0.44 *	19C 0.37 *	27C 0.33 *	37C 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