

POLY CAB MARINE IEC 60092-353 0.6/1.0 kV UAR Unarmoured Power and Control Cable, 0.6/1.0 (1.2) kV AC

POLY CAB
IDEAS. CONNECTED.



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB MARINE Single and Multicore core 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 (OD > 25 mm); Min. 4D (OD < 25 mm);
(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,
- 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 37C core: Black/White cores with number printing
- 7 to 37GC 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 60092-353:2016

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 optional

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DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
LVIE07CXUAEV01C1.5SSAXXXP	1	1.5	0.7	5	40
LVIE07CXUAEV01C2.5SSAXXXP	1	2.5	0.7	5.4	50
LVIE07CXUAEV01C004SSAXXXP	1	4	0.7	6	70
LVIE07CXUAEV01C006SSAXXXP	1	6	0.7	6.5	90
LVIE07CXUAEV01C010SSAXXXP	1	10	0.7	7.5	135
LVIE07CXUAEV01C016SSAXXXP	1	16	0.7	8.5	195
LVIE07CXUAEV01C025SSAXXXP	1	25	0.9	10.5	300
LVIE07CXUAEV01C035SSAXXXP	1	35	0.9	11.6	400
LVIE07CXUAEV01C050SSAXXXP	1	50	1	13.5	560
LVIE07CXUAEV01C070SSAXXXP	1	70	1.1	15.5	770
LVIE07CXUAEV01C095SSAXXXP	1	95	1.1	17.3	1015
LVIE07CXUAEV01C120SSAXXXP	1	120	1.2	19.3	1270
LVIE07CXUAEV01C150SSAXXXP	1	150	1.4	21.5	1590
LVIE07CXUAEV01C185SSAXXXP	1	185	1.6	23.7	1940
LVIE07CXUAEV01C240SSAXXXP	1	240	1.7	26.5	2490
LVIE07CXUAEV01C300SSAXXXP	1	300	1.8	29.3	3090
LVIE07CXUAEV02C1.5SSAXXXP	2	1.5	0.7	8	75
LVIE07CXUAEV02C2.5SSAXXXP	2	2.5	0.7	9	100
LVIE07CXUAEV02C004SSAXXXP	2	4	0.7	10.2	140
LVIE07CXUAEV02C006SSAXXXP	2	6	0.7	11.3	185
LVIE07CXUAEV02C010SSAXXXP	2	10	0.7	13.3	280
LVIE07CXUAEV02C016SSAXXXP	2	16	0.7	15.7	410
LVIE07CXUAEV02C025SSAXXXP	2	25	0.9	19.3	630
LVIE07CXUAEV02C035SSAXXXP	2	35	0.9	21.8	840
LVIE07CXUAEV02C050SSAXXXP	2	50	1	25.4	1165
LVIE07CXUAEV02C070SSAXXXP	2	70	1.1	29.3	1585
LVIE07CXUAEV02C095SSAXXXP	2	95	1.1	33.2	2120
LVIE07CXUAEV02C120SSAXXXP	2	120	1.2	37	2650

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Product Code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Cable Overall Dia. (mm)	Cable Weight Approx. (kg / km)
LVIE07CXUAEV02C150SSAXXXP	2	150	1.4	41.3	3290
LVIE07CXUAEV02C185SSAXXXP	2	185	1.6	45.9	4055
LVIE07CXUAEV02C240SSAXXXP	2	240	1.7	51.6	5205
LVIE07CXUAEV02C300SSAXXXP	2	300	1.8	56.9	6430
LVIE07CXUAEV02C050SSAXXXP	2	50 *	1	19.7	1100
LVIE07CXUAEV02C070SSAXXXP	2	70 *	1.1	22.6	1510
LVIE07CXUAEV02C095SSAXXXP	2	95 *	1.1	25.4	2010
LVIE07CXUAEV02C120SSAXXXP	2	120 *	1.2	27.2	2510
LVIE07CXUAEV02C150SSAXXXP	2	150 *	1.4	30.4	3120
LVIE07CXUAEV02C185SSAXXXP	2	185*	1.6	33.9	3860
LVIE07CXUAEV02C240SSAXXXP	2	240 *	1.7	37.8	4945
LVIE07CXUAEV02C300SSAXXXP	2	300 *	1.8	41.5	6145
LVIE07CXUAEV03C1.5SSAXXXP	3	1.5	0.7	8.5	95
LVIE07CXUAEV03C2.5SSAXXXP	3	2.5	0.7	9.6	135
LVIE07CXUAEV03C004SSAXXXP	3	4	0.7	10.8	190
LVIE07CXUAEV03C006SSAXXXP	3	6	0.7	12.2	255
LVIE07CXUAEV03C010SSAXXXP	3	10	0.7	14.2	385
LVIE07CXUAEV03C016SSAXXXP	3	16	0.7	16.7	575
LVIE07CXUAEV03C025SSAXXXP	3	25	0.9	20.6	885
LVIE07CXUAEV03C035SSAXXXP	3	35	0.9	23.3	1190
LVIE07CXUAEV03C050SSAXXXP	3	50	1	27.4	1680
LVIE07CXUAEV03C070SSAXXXP	3	70	1.1	31.5	2295
LVIE07CXUAEV03C095SSAXXXP	3	95	1.1	35.6	3050
LVIE07CXUAEV03C120SSAXXXP	3	120	1.2	39.8	3840
LVIE07CXUAEV03C150SSAXXXP	3	150	1.4	44.4	4780
LVIE07CXUAEV03C185SSAXXXP	3	185	1.6	49.5	5890
LVIE07CXUAEV03C240SSAXXXP	3	240	1.7	55.5	7565
LVIE07CXUAEV03C300SSAXXXP	3	300	1.8	61.5	9400
LVIE07CXUAEV03C035SSAXXXP	3	35 *	0.9	19	1125

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LVIE07CXUAEV03C050SSAXXXP	3	50 *	1	22.4	1610
LVIE07CXUAEV03C070SSAXXXP	3	70 *	1.1	25.7	2215
LVIE07CXUAEV03C095SSAXXXP	3	95 *	1.1	28.7	2940
LVIE07CXUAEV03C120SSAXXXP	3	120 *	1.2	31.8	3715
LVIE07CXUAEV03C150SSAXXXP	3	150 *	1.4	35.5	4615
LVIE07CXUAEV03C185SSAXXXP	3	185*	1.6	39.6	5710
LVIE07CXUAEV03C240SSAXXXP	3	240 *	1.7	44.2	7320
LVIE07CXUAEV03C300SSAXXXP	3	300 *	1.8	48.9	9135
LVIE07CXUAEV04C1.5SSAXXXP	4	1.5	0.7	9.5	125
LVIE07CXUAEV04C2.5SSAXXXP	4	2.5	0.7	10.5	165
LVIE07CXUAEV04C004SSAXXXP	4	4	0.7	12.1	245
LVIE07CXUAEV04C006SSAXXXP	4	6	0.7	13.4	325
LVIE07CXUAEV04C010SSAXXXP	4	10	0.7	15.8	505
LVIE07CXUAEV04C016SSAXXXP	4	16	0.7	18.6	750
LVIE07CXUAEV04C025SSAXXXP	4	25	0.9	23	1160
LVIE07CXUAEV04C035SSAXXXP	4	35	0.9	25.9	1565
LVIE07CXUAEV04C050SSAXXXP	4	50	1	30.4	2205
LVIE07CXUAEV04C070SSAXXXP	4	70	1.1	35.1	3015
LVIE07CXUAEV04C095SSAXXXP	4	95	1.1	39.8	4035
LVIE07CXUAEV04C120SSAXXXP	4	120	1.2	44.3	5050
LVIE07CXUAEV04C035SSAXXXP	4	35 *	0.9	23.1	1640
LVIE07CXUAEV04C050SSAXXXP	4	50 *	1	27.2	2340
LVIE07CXUAEV04C070SSAXXXP	4	70 *	1.1	31.3	3215
LVIE07CXUAEV04C095SSAXXXP	4	95 *	1.1	35.3	4270
LVIE07CXUAEV04C120SSAXXXP	4	120 *	1.2	38	4945
LVIE07CXUAEV05C004SSAXXXP	5	4	0.7	13.2	305
LVIE07CXUAEV05C006SSAXXXP	5	6	0.7	14.8	415
LVIE07CXUAEV05C010SSAXXXP	5	10	0.7	17.4	635
LVIE07CXUAEV05C016SSAXXXP	5	16	0.7	20.4	955

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LVIE07CXUAEV05C025SSAXXXP	5	25	0.9	25.5	1490
LVIE07CXUAEV05C035SSAXXXP	5	35	0.9	28.8	2010
LVIE07CXUAEV05C050SSAXXXP	5	50	1	33.8	2835
LVIE07CXUAEV05C070SSAXXXP	5	70	1.1	39.1	3895
LVIE07CXUAEV05C095SSAXXXP	5	95	1.1	44.2	5190
LVIE07CXUAEV05C1.5SSAXXXP	5	1.5	0.7	10.3	150
LVIE07CXUAEV07C1.5SSAXXXP	7	1.5	0.7	11.2	190
LVIE07CXUAEV10C1.5SSAXXXP	10	1.5	0.7	14.4	270
LVIE07CXUAEV12C1.5SSAXXXP	12	1.5	0.7	15.1	320
LVIE07CXUAEV14C1.5SSAXXXP	14	1.5	0.7	15.8	365
LVIE07CXUAEV16C1.5SSAXXXP	16	1.5	0.7	16.7	410
LVIE07CXUAEV19C1.5SSAXXXP	19	1.5	0.7	17.8	480
LVIE07CXUAEV24C1.5SSAXXXP	24	1.5	0.7	21	605
LVIE07CXUAEV27C1.5SSAXXXP	27	1.5	0.7	21.4	670
LVIE07CXUAEV37C1.5SSAXXXP	37	1.5	0.7	24.2	890
LVIE07CXUAEV05C2.5SSAXXXP	5	2.5	0.7	11.4	205
LVIE07CXUAEV07C2.5SSAXXXP	7	2.5	0.7	12.7	270
LVIE07CXUAEV10C2.5SSAXXXP	10	2.5	0.7	16.3	385
LVIE07CXUAEV12C2.5SSAXXXP	12	2.5	0.7	16.8	445
LVIE07CXUAEV14C2.5SSAXXXP	14	2.5	0.7	17.9	515
LVIE07CXUAEV16C2.5SSAXXXP	16	2.5	0.7	18.9	580
LVIE07CXUAEV19C2.5SSAXXXP	19	2.5	0.7	19.9	670
LVIE07CXUAEV24C2.5SSAXXXP	24	2.5	0.7	23.7	860
LVIE07CXUAEV27C2.5SSAXXXP	27	2.5	0.7	24.2	950
LVIE07CXUAEV30C2.5SSAXXXP	30	2.5	0.7	25.1	1045
LVIE07CXUAEV37C2.5SSAXXXP	37	2.5	0.7	27.3	1275
LVIE07CXUAEV05C2.5SSAXXXP	5	2.5	0.7	11.4	205
LVIE07CXUAEV07C2.5SSAXXXP	7	2.5	0.7	12.7	270
LVIE07CXUAEV10C2.5SSAXXXP	10	2.5	0.7	16.3	385

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LVIE07CXUAEV12C2.5SSAXXXP	12	2.5	0.7	16.8	445
LVIE07CXUAEV14C2.5SSAXXXP	14	2.5	0.7	17.9	515
LVIE07CXUAEV16C2.5SSAXXXP	16	2.5	0.7	18.9	580
LVIE07CXUAEV19C2.5SSAXXXP	19	2.5	0.7	19.9	670
LVIE07CXUAEV24C2.5SSAXXXP	24	2.5	0.7	23.7	860
LVIE07CXUAEV27C2.5SSAXXXP	27	2.5	0.7	24.2	950
LVIE07CXUAEV30C2.5SSAXXXP	30	2.5	0.7	25.1	1045
LVIE07CXUAEV37C2.5SSAXXXP	37	2.5	0.7	27.3	1275

Note: * Sector shaped conductor

ELECTRICAL CHARACTERISTICS:

Conductor cross-sectional area	Max. Conductor Resistance of Class-2		Current Rating for continuous service									
	at 20°C DC	at 90°C AC	1C	2C	3C	4C	5C	7C	12C	19C	27C	37C
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