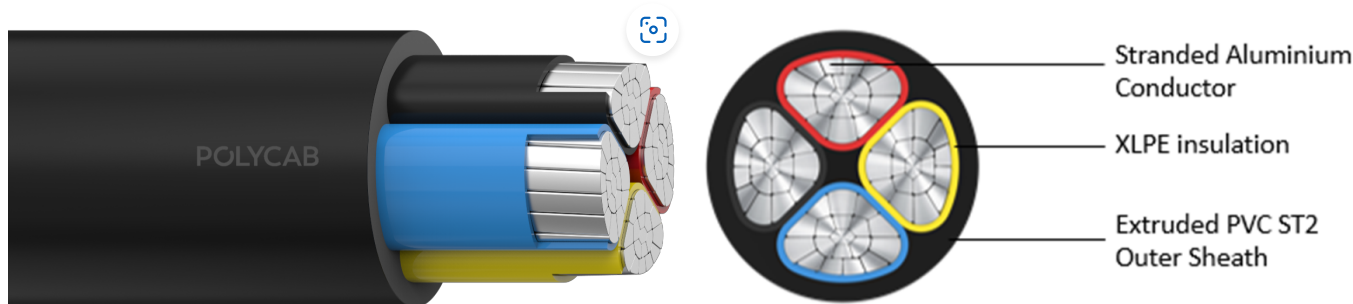


POLYCAB LV AL IEC 60502-1 0.6/1 KV MC-4 UA

Power Cable, 0.6/1 (1.2) KV AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB LV AL IEC 60502-1 0.6/1 KV MC-4 UA, stranded compacted aluminium conductor, XLPE insulated, and PVC sheathed unarmoured cable confirming to IEC 60502-1 is suitable for fixed installation such as distribution network or industrial installation. These cable cables are designed for systems with rated AC voltage 1KV ($U_m=1.2$ KV) & ≤ 1.5 KV (with a maximum 1.8 KV DC) between two live conductor.

CHARACTERISTICS

Voltage Rating

Nominal Voltage: 0.6/1 (1.2) kV

Operation Temperature

Max. operating temperature up to 90°C

Max. Short Circuit Temperature: 250°C

CONSTRUCTION

- Conductor: Circular Compacted or Stranded Aluminium conductor as per IEC 60228, class 2
- Insulation: XLPE as per IEC 60502-1
- Outer Sheath: Extruded Polyvinylchloride (ST2) or Polyethylene (ST7) or Halogen free (ST8) as per IEC 60502-1

Core Identification

Red, Yellow, Blue and Black

Bending Radius:

Fixed Installation: 12 x Overall diameter

Test Voltage

3.5kV AC

OUTSTANDING FEATURES

- High life
- High Insulation
- Resistance
- Flame retardant
- Low Halogen
- Low smoke
- UV resistant

STANDARD FOLLOWS

IEC 60228

IEC 60502-1

IEC 60332-1-2

COMPLIANCE

Conductor resistance IEC 60228

Insulation resistance IEC 60502-1

Shrinkage test IEC 60811-503

Flame Retardant test IEC 60332-1-2

OUR ACCREDITATIONS



APPROVAL



NOTES

The above cable is also available with EPR/HEPR insulation type.

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Power Cable, 0.6/1 (1.2) KV AC

Weight & Dimension Data

Product Code	Nominal Cross-sectional Area	Nominal insulation thickness	Nominal sheath thickness	Overall diameter (Approx.)	Weight (Approx.)
	mm ²	mm	mm	mm	Kg/Km
LVIE07AXUAY2004C004S	4	0.70	1.40	14.5	210
LVIE07AXUAY2004C006S	6	0.70	1.40	15.8	260
LVIE07AXUAY2004C010S	10	0.70	1.50	17.3	330
LVIE07AXUAY2004C016S	16	0.70	1.50	18.7	420
LVIE07AXUAY2004C025S	25	0.90	1.60	20.5	500
LVIE07AXUAY2004C035S	35	0.90	1.70	23.0	650
LVIE07AXUAY2004C050S	50	1.00	1.80	26.8	890
LVIE07AXUAY2004C070S	70	1.10	1.90	30.9	1190
LVIE07AXUAY2004C095S	95	1.10	2.10	34.9	1560
LVIE07AXUAY2004C120S	120	1.20	2.20	37.4	1910
LVIE07AXUAY2004C150S	150	1.40	2.40	42.0	2380
LVIE07AXUAY2004C185S	185	1.60	2.50	46.6	2920
LVIE07AXUAY2004C240S	240	1.70	2.70	52.1	3700
LVIE07AXUAY2004C300S	300	1.80	2.90	57.6	4570
LVIE07AXUAY2004C400S	400	2.00	3.20	64.3	5700
LVIE07AXUAY2004C500S	500	2.20	3.40	73.2	7440
LVIE07AXUAY2004C630S	630	2.40	3.70	81.6	9290

Electrical Characteristics:

Current rating and maximum DC conductor resistance.

Nominal Cross-sectional area	Buried direct in the ground at 20°C	In single way Ducts at 30°C	In air at 30°C	Maximum DC conductor Resistance at 20°C
mm ²	Amp.	Amp.	Amp.	Ω/km
4	38	36	35	7.41
6	50	46	46	4.61
10	62	57	59	3.08
16	80	74	76	1.91
25	103	95	102	1.2
35	123	113	125	0.868
50	145	134	152	0.641
70	177	164	193	0.443
95	213	196	238	0.32

POLYCAB LV AL IEC 60502-1 0.6/1 KV MC-4 UA

Power Cable, 0.6/1 (1.2) KV AC

Nominal Cross-sectional area	Buried direct in the ground at 20°C	In single way Ducts at 30°C	In air at 30°C	Maximum DC conductor Resistance at 20°C
mm ²	Amp.	Amp.	Amp.	Ω/km
120	241	222	274	0.253
150	269	248	312	0.206
185	305	281	362	0.164
240	353	324	431	0.125
300	399	364	497	0.100
400	454	412	579	0.0778
500	516	463	673	0.0605
630	585	518	783	0.0469

Maximum conductor temperature 90°C
 Ambient air temperature 30°C
 Ground temperature 20°C
 Depth of laying 750 mm
 Thermal resistivity of soil 1.5 K.m/W

De-Rating Factor

Current rating de-rating factors for other than 30°C ambient air temperature.

Air Temperature	20	25	35	40	45	50	55	60
De-rating factor	1.08	1.04	0.96	0.91	0.87	0.82	0.76	0.71

Current rating de-rating factors for other than 20°C ground temperature.

Ground Temperature	10	15	25	30	35	40	45	50
De-rating factor	1.07	1.04	0.96	0.93	0.89	0.85	0.8	0.76

Current rating de-rating factors for other than 30°C ground temperature for cables in Ducts.

Ground Temperature	15	25	35	40	45	50
De-rating factor	1.12	1.04	0.96	0.91	0.87	0.82