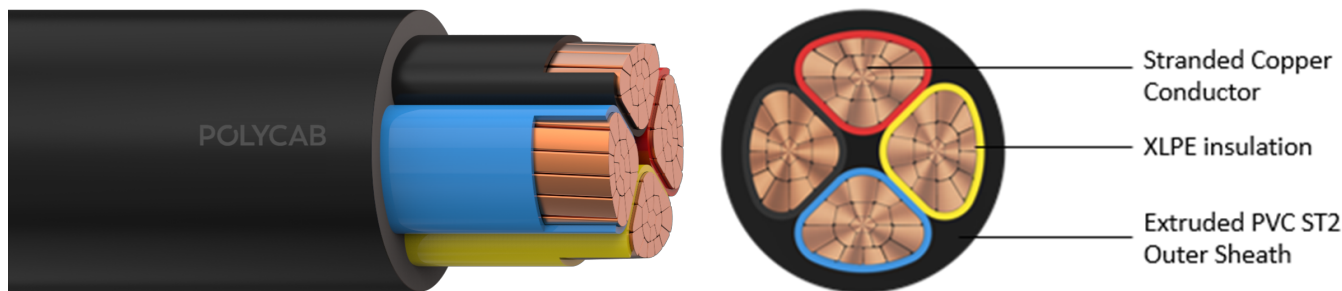


POLYCAB LV CU IEC 60502-1 0.6/1 KV MC-4 UA

Power Cable, 0.6/1 (1.2) KV AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB LV CU IEC 60502-1 0.6/1 KV MC-4 UA, stranded compacted copper 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 Copper 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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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
LVIE07CXUAY2004C004S	4	0.70	1.40	14.2	310
LVIE07CXUAY2004C006S	6	0.70	1.40	15.6	410
LVIE07CXUAY2004C010S	10	0.70	1.50	17.9	590
LVIE07CXUAY2004C016S	16	0.70	1.50	19.9	845
LVIE07CXUAY2004C025S	25	0.90	1.60	20.5	1130
LVIE07CXUAY2004C035S	35	0.90	1.70	23.0	1520
LVIE07CXUAY2004C050S	50	1.00	1.80	26.8	2140
LVIE07CXUAY2004C070S	70	1.10	1.90	30.9	2950
LVIE07CXUAY2004C095S	95	1.10	2.10	34.9	3940
LVIE07CXUAY2004C120S	120	1.20	2.20	37.4	4930
LVIE07CXUAY2004C150S	150	1.40	2.40	42.0	6160
LVIE07CXUAY2004C185S	185	1.60	2.50	46.6	7590
LVIE07CXUAY2004C240S	240	1.70	2.70	52.1	9730
LVIE07CXUAY2004C300S	300	1.80	2.90	57.6	12140
LVIE07CXUAY2004C400S	400	2.00	3.20	64.3	15160
LVIE07CXUAY2004C500S	500	2.20	3.40	73.2	20060
LVIE07CXUAY2004C630S	630	2.40	3.70	81.6	25200

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	49	45	45	4.61
6	60	56	57	3.08
10	80	75	77	1.83
16	103	96	98	1.15
25	132	122	131	0.727

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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
35	158	146	162	0.524
50	187	173	197	0.387
70	229	211	249	0.268
95	274	252	307	0.193
120	310	284	352	0.153
150	347	317	402	0.124
185	391	357	464	0.0991
240	451	409	550	0.0754
300	507	456	631	0.0601
400	570	508	728	0.0470
500	640	562	836	0.0366
630	714	616	957	0.0283

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