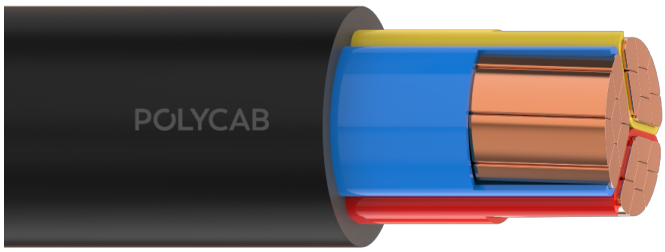
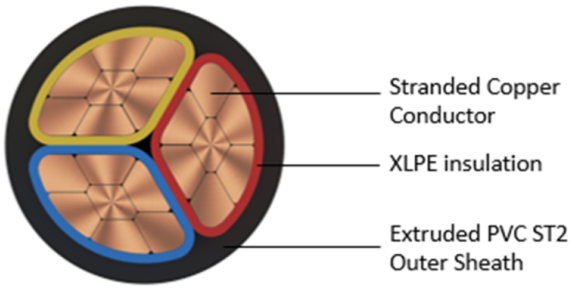
POLYCAB LV CU IEC 60502-1 0.6/1 KV MC-3 UA
Power Cable, 0.6/1 (1.2) KV AC





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB LV CU IEC 60502-1 0.6/1 KV MC-3 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 (Um=1.2 KV) & ≤1.5 KV (with a maximum 1.8 KV DC) between two live conductor.

OUTSTANDING FEATURES

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

CHARACTERISTICS

Voltage Rating
Nominal Voltage: 0.6/1 (1.2) kV

Operation Temperature
Max. operating temperature: +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, and Black

Bending Radius:
Fixed Installation: 12 x Overall diameter

Test Voltage
3.5kV AC

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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POLYCAB
IDEAS. CONNECTED.

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
LVIE07CXUAY2003C004S	4	0.70	1.30	13.0	250
LVIE07CXUAY2003C006S	6	0.70	1.40	14.5	330
LVIE07CXUAY2003C010S	10	0.70	1.40	16.3	470
LVIE07CXUAY2003C016S	16	0.70	1.50	18.5	650
LVIE07CXUAY2003C025S	25	0.90	1.50	17.2	850
LVIE07CXUAY2003C035S	35	0.90	1.60	19.3	1140
LVIE07CXUAY2003C050S	50	1.00	1.70	22.4	1610
LVIE07CXUAY2003C070S	70	1.10	1.90	25.9	2230
LVIE07CXUAY2003C095S	95	1.10	2.00	28.9	2950
LVIE07CXUAY2003C120S	120	1.20	2.10	31.8	3710
LVIE07CXUAY2003C150S	150	1.40	2.20	35.5	4610
LVIE07CXUAY2003C185S	185	1.60	2.40	39.6	5700
LVIE07CXUAY2003C240S	240	1.70	2.50	44.1	7290
LVIE07CXUAY2003C300S	300	1.80	2.70	48.7	9100
LVIE07CXUAY2003C400S	400	2.00	3.00	54.4	11370
LVIE07CXUAY2003C500S	500	2.20	3.20	61.8	15050
LVIE07CXUAY2003C630S	630	2.40	3.40	68.7	18870

Electrical Characteristics:

Current ratting 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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Nominal Cross-sectional area mm²	Buried direct in the ground at 20°C Amp.	In single way Ducts at 30°C Amp.	In air at 30°C Amp.	Maximum DC conductor Resistance at 20°C 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	0.047
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