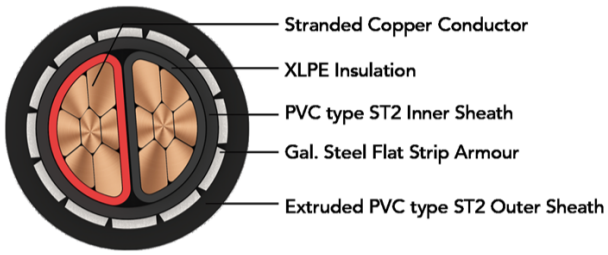
POLYCAB LV CU IEC 60502-1 0.6/1 KV MC-2 SFA
Power Cable, 0.6/1 (1.2) KV AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB LV CU IEC 60502-1 0.6/1 KV MC-2 SFA, stranded compacted copper conductor, XLPE insulated, and PVC sheathed armoured 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.

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
- Inner covering: Extruded or Lapped PVC
- Armouring: Galvanised Flat Strip armoured (FSA)
- Outer Sheath: Extruded Polyvinylchloride (ST2) or Polyethylene (ST7) or Halogen free (ST8) as per IEC 60502-1

Core Identification
Red and Black

Bending Radius:
Fixed Installation: 12 x Overall diameter
Test Voltage
3.5kV AC

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

NABL

APPROVAL

FQC CE

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 Thickness			Armouring Dimension	Overall Diameter (Approx.)	Weight (Approx.)
		Insulation	Inner covering	Sheath			
	mm^2	mm	mm	mm	n x mm	mm	Kg/Km
LVIE07CXSWY2002C025S	25	0.90	1.00	1.8	4 x 0.2	18.3	800
LVIE07CXSWY2002C035S	35	0.90	1.00	1.8	4 x 0.2	20.1	1000
LVIE07CXSWY2002C050S	50	1.00	1.00	1.8	4 x 0.2	22.9	1400
LVIE07CXSWY2002C070S	70	1.10	1.00	1.9	4 x 0.2	25.9	1800
LVIE07CXSWY2002C095S	95	1.10	1.20	2.0	4 x 0.2	28.9	2400
LVIE07CXSWY2002C120S	120	1.20	1.20	2.2	4 x 0.5	31.6	3100
LVIE07CXSWY2002C150S	150	1.40	1.20	2.3	4 x 0.5	34.8	3800
LVIE07CXSWY2002C185S	185	1.60	1.40	2.4	4 x 0.5	38.6	4600
LVIE07CXSWY2002C240S	240	1.70	1.40	2.6	4 x 0.5	42.6	5800
LVIE07CXSWY2002C300S	300	1.80	1.60	2.8	4 x 0.5	47.1	7100
LVIE07CXSWY2002C400S	400	2.00	1.60	3.0	4 x 0.5	51.8	8700
LVIE07CXSWY2002C500S	500	2.20	1.60	3.2	4 x 0.5	58.2	11300
LVIE07CXSWY2002C630S	630	2.40	1.80	3.5	4 x 0.5	64.8	14100

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
25	159	122	154	0.727
35	190	146	189	0.524
50	225	173	229	0.387
70	273	211	288	0.268
95	326	252	354	0.193
120	367	284	405	0.153
150	409	317	461	0.124
185	459	357	530	0.0991
240	525	409	623	0.0754
300	584	456	708	0.0601
400	650	508	807	0.047
500	718	562	914	0.0366
630	786	616	1030	0.0283

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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