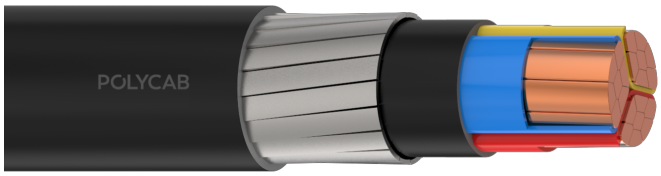
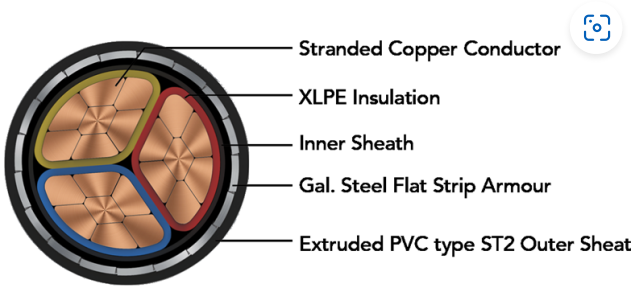
POLYCAB LV CU IEC 60502-1 0.6/1 KV MC-3 SFA
Power Cable, 0.6/1 (1.2) KV AC





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB LV CU IEC 60502-1 0.6/1 KV MC-3 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.

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 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, 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.

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

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
LVIE07CXSFY2003C025S	25	0.90	1.00	1.60	4 x 0.2	19.8	1025
LVIE07CXSFY2003C035S	35	0.90	1.00	1.70	4 x 0.2	21.9	1320
LVIE07CXSFY2003C050S	50	1.00	1.00	1.80	4 x 0.2	25.0	1820
LVIE07CXSFY2003C070S	70	1.10	1.00	1.90	4 x 0.2	28.3	2450
LVIE07CXSFY2003C095S	95	1.10	1.20	2.10	4 x 0.5	32.5	3460
LVIE07CXSFY2003C120S	120	1.20	1.20	2.20	4 x 0.5	35.4	4270
LVIE07CXSFY2003C150S	150	1.40	1.40	2.40	4 x 0.5	39.7	5290
LVIE07CXSFY2003C185S	185	1.60	1.40	2.50	4 x 0.5	43.6	6440
LVIE07CXSFY2003C240S	240	1.70	1.40	2.70	4 x 0.5	48.3	8120
LVIE07CXSFY2003C300S	300	1.80	1.60	2.90	4 x 0.5	53.3	10070
LVIE07CXSFY2003C400S	400	2.00	1.60	3.10	4 x 0.5	58.8	12420
LVIE07CXSFY2003C500S	500	2.20	1.80	3.30	4 x 0.5	66.6	16300
LVIE07CXSFY2003C630S	630	2.40	1.80	3.60	4 x 0.5	74.3	20790

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	132	122	131	0.727
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

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

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