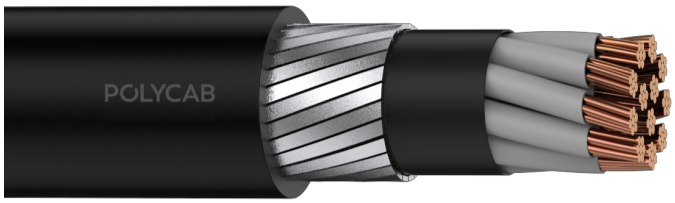
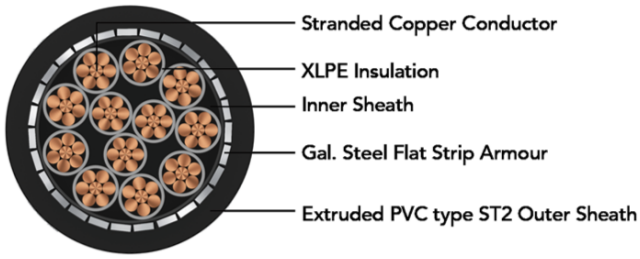
POLYCAB LV 1.5 CU IEC 60502-1 0.6/1 KV MC SFA
Control Cable, 0.6/1 (1.2) KV AC





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB LV 1.5 CU IEC 60502-1 0.6/1 KV MC 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: 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
2 Core – Red, Black
3 Core – Red, Yellow, Black
4 Core – Red, Yellow, Blue, Black
5 Core – Red, Yellow, Blue, Black, Grey
6 Core – Grey with number printing
& Above

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

NABL

APPROVAL

FQC CE

NOTES

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

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Control Cable, 0.6/1 (1.2) KV AC

POLYCAB
IDEAS. CONNECTED.

Weight & Dimension Data

Product Code	Number of cores	Nominal Cross sectional area	Nominal Thickness			Armouring Dimension	Overall Diameter (Approx.)	Weight (Approx.)
			Insulation	Inner covering	Sheath			
	No.	mm²	mm	mm	mm	n x mm	mm	Kg/Km
LVIE07CXSFY2016C1.5S	16	1.5	0.70	1.00	1.80	4 x 0.20	20.1	850
LVIE07CXSFY2019C1.5S	19	1.5	0.70	1.00	1.80	4 x 0.20	21.0	940
LVIE07CXSFY2021C1.5S	21	1.5	0.70	1.00	1.80	4 x 0.20	22.0	1020
LVIE07CXSFY2024C1.5S	24	1.5	0.70	1.00	1.80	4 x 0.20	24.0	1130
LVIE07CXSFY2027C1.5S	27	1.5	0.70	1.00	1.80	4 x 0.20	24.4	1220
LVIE07CXSFY2030C1.5S	30	1.5	0.70	1.00	1.80	4 x 0.20	25.2	1290
LVIE07CXSFY2033C1.5S	33	1.5	0.70	1.00	1.80	4 x 0.20	26.1	1380
LVIE07CXSFY2037C1.5S	37	1.5	0.70	1.00	1.80	4 x 0.20	27.0	1500
LVIE07CXSFY2044C1.5S	44	1.5	0.70	1.00	1.90	4 x 0.20	30.2	1740
LVIE07CXSFY2052C1.5S	52	1.5	0.70	1.00	1.90	4 x 0.20	31.4	1930
LVIE07CXSFY2061C1.5S	61	1.5	0.70	1.20	2.00	4 x 0.20	33.8	2230

Electrical Characteristics:

Current ratting and maximum DC conductor resistance.

Nominal Cross sectional area	Number of cores	Max. DC conductor resistance at 20°C	Current Rating	
			In Ground at 20°C	In Air at 30°C
mm²	No.	Ω/km	Amp.	Amp.
1.5	16	12.1	15	13
1.5	19	12.1	15	13
1.5	21	12.1	13	12
1.5	24	12.1	13	12
1.5	27	12.1	12	10
1.5	30	12.1	12	10
1.5	33	12.1	12	10
1.5	37	12.1	12	10
1.5	44	12.1	10	9
1.5	52	12.1	10	9
1.5	61	12.1	10	9

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