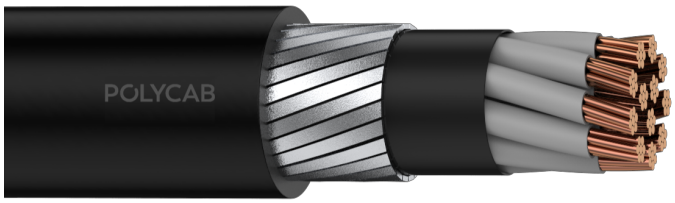
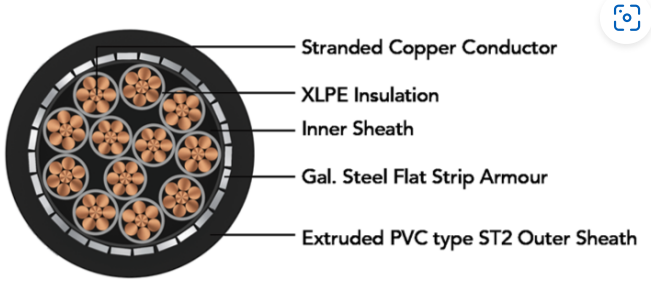
POLYCAB LV 2.5 CU IEC 60502-1 0.6/1 KV MC SFA
Control Cable, 0.6/1 (1.2) KV AC





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB LV 2.5 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°

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

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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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
LVIE07CXSFY2012C1.5S	12	2.5	0.70	1.00	1.80	4 x 0.20	20.4	900
LVIE07CXSFY2014C1.5S	14	2.5	0.70	1.00	1.80	4 x 0.20	21.2	1000
LVIE07CXSFY2016C1.5S	16	2.5	0.70	1.00	1.80	4 x 0.20	22.2	1100
LVIE07CXSFY2019C1.5S	19	2.5	0.70	1.00	1.80	4 x 0.20	23.3	1225
LVIE07CXSFY2021C1.5S	21	2.5	0.70	1.00	1.80	4 x 0.20	24.4	1325
LVIE07CXSFY2024C1.5S	24	2.5	0.70	1.00	1.80	4 x 0.20	26.7	1475
LVIE07CXSFY2027C1.5S	27	2.5	0.70	1.00	1.80	4 x 0.20	27.2	1600
LVIE07CXSFY2030C1.5S	30	2.5	0.70	1.00	1.80	4 x 0.20	28.1	1700
LVIE07CXSFY2033C1.5S	33	2.5	0.70	1.00	1.80	4 x 0.20	29.1	1825
LVIE07CXSFY2037C1.5S	37	2.5	0.70	1.00	1.90	4 x 0.20	30.4	2000
LVIE07CXSFY2044C1.5S	44	2.5	0.70	1.20	2.00	4 x 0.20	34.4	2375
LVIE07CXSFY2052C1.5S	52	2.5	0.70	1.20	2.00	4 x 0.20	35.8	2650
LVIE07CXSFY2061C1.5S	61	2.5	0.70	1.20	2.10	4 x 0.5	38.7	3025

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.
2.5	12	7.41	21.6	20
2.5	14	7.41	21.6	20
2.5	16	7.41	19	17.6
2.5	19	7.41	19	17.6
2.5	21	7.41	17	15
2.5	24	7.41	17	15
2.5	27	7.41	15	14
2.5	30	7.41	15	14
2.5	33	7.41	15	14
2.5	37	7.41	15	14
2.5	44	7.41	13	12
2.5	52	7.41	13	12
2.5	61	7.41	13	12

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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