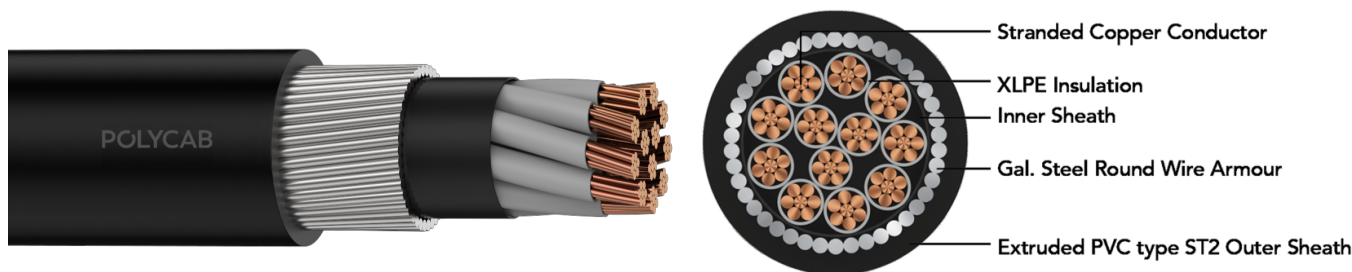


POLYCAB LV 1.5 CU IEC 60502-1 0.6/1 KV MC SWA

Control Cable, 0.6/1 (1.2) KV AC

POLYCAB
IDEAS. CONNECTED.



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB LV 1.5 CU IEC 60502-1 0.6/1 KV MC SWA, 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 ($U_m=1.2$ 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 steel wire armoured (SWA)
- 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



APPROVAL



NOTES

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

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Weight & Dimension Data

Product Code	Number of cores	Nominal cross sectional area	Nominal Thickness			Nominal Diameter (Approx.)		Weight (Approx.)
			Insulation	Inner covering	Sheath	Armouring wire	Overall	
	No.	mm ²	mm	mm	mm	mm	mm	Kg/Km
LVIE07CXSWY2002C1.5S	2	1.5	0.70	1.00	1.80	0.80	13.2	320
LVIE07CXSWY2003C1.5S	3	1.5	0.70	1.00	1.80	0.80	13.7	350
LVIE07CXSWY2004C1.5S	4	1.5	0.70	1.00	1.80	0.80	14.5	380
LVIE07CXSWY2005C1.5S	5	1.5	0.70	1.00	1.80	0.80	15.3	450
LVIE07CXSWY2006C1.5S	6	1.5	0.70	1.00	1.80	1.25	17.1	550
LVIE07CXSWY2007C1.5S	7	1.5	0.70	1.00	1.80	1.25	17.1	560
LVIE07CXSWY2008C1.5S	8	1.5	0.70	1.00	1.80	1.25	18.4	660
LVIE07CXSWY2009C1.5S	9	1.5	0.70	1.00	1.80	1.25	19.5	710
LVIE07CXSWY2010C1.5S	10	1.5	0.70	1.00	1.80	1.25	20.1	760
LVIE07CXSWY2012C1.5S	12	1.5	0.70	1.00	1.80	1.25	20.6	820
LVIE07CXSWY2014C1.5S	14	1.5	0.70	1.00	1.80	1.25	21.3	880
LVIE07CXSWY2016C1.5S	16	1.5	0.70	1.00	1.80	1.60	22.9	1060
LVIE07CXSWY2019C1.5S	19	1.5	0.70	1.00	1.80	1.60	23.8	1170
LVIE07CXSWY2021C1.5S	21	1.5	0.70	1.00	1.80	1.60	24.8	1250
LVIE07CXSWY2024C1.5S	24	1.5	0.70	1.00	1.80	1.60	26.8	1400
LVIE07CXSWY2027C1.5S	27	1.5	0.70	1.00	1.80	1.60	27.2	1480
LVIE07CXSWY2030C1.5S	30	1.5	0.70	1.00	1.80	1.60	28.0	1560
LVIE07CXSWY2033C1.5S	33	1.5	0.70	1.00	1.80	1.60	28.9	1660
LVIE07CXSWY2037C1.5S	37	1.5	0.70	1.00	1.90	1.60	30.0	1800
LVIE07CXSWY2044C1.5S	44	1.5	0.70	1.00	2.00	1.60	33.2	2090
LVIE07CXSWY2052C1.5S	52	1.5	0.70	1.00	2.00	2.00	35.2	2500
LVIE07CXSWY2061C1.5S	61	1.5	0.70	1.20	2.10	2.00	37.6	2850

Electrical Characteristics:

Current rating 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
mm ²	No.	Ω/km	Amp.	Amp.
1.5	2	12.1	33.5	30
1.5	3	12.1	28	25
1.5	4	12.1	28	25

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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
mm ²	No.	Ω/km	Amp.	Amp.
1.5	5	12.1	28	25
1.5	6	12.1	25	22
1.5	7	12.1	21.6	20
1.5	8	12.1	18	17
1.5	9	12.1	18	17
1.5	10	12.1	18	17
1.5	12	12.1	17	15
1.5	14	12.1	17	15
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

Electrical characteristics

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