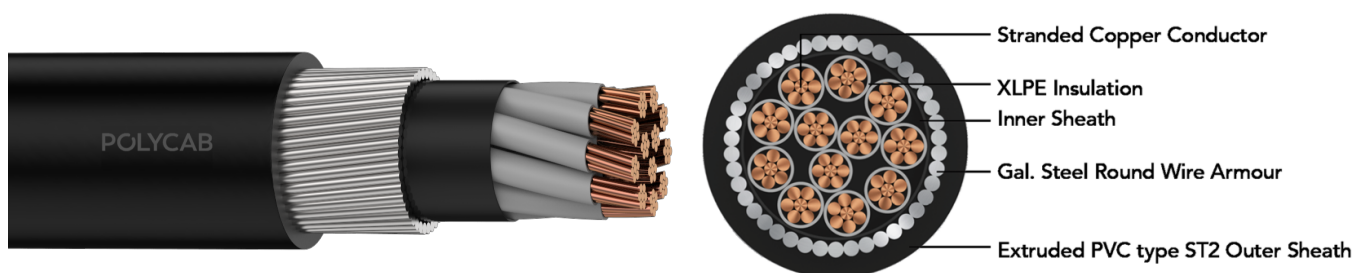


# POLYCAB LV 2.5 CU IEC 60502-1 0.6/1 KV MC SWA

## 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 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) &  $\leq 1.5$  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	mm	mm	mm	mm	Kg/Km
LVIE07CXSWY2002C2.5S	2	2.5	0.70	1.00	1.80	0.80	14.1	375
LVIE07CXSWY2003C2.5S	3	2.5	0.70	1.00	1.80	0.80	14.7	425
LVIE07CXSWY2004C2.5S	4	2.5	0.70	1.00	1.80	0.80	15.6	475
LVIE07CXSWY2005C2.5S	5	2.5	0.70	1.00	1.80	1.25	17.4	600
LVIE07CXSWY2006C2.5S	6	2.5	0.70	1.00	1.80	1.25	18.5	680
LVIE07CXSWY2007C2.5S	7	2.5	0.70	1.00	1.80	1.25	18.5	710
LVIE07CXSWY2008C2.5S	8	2.5	0.70	1.00	1.80	1.25	20.0	790
LVIE07CXSWY2009C2.5S	9	2.5	0.70	1.00	1.80	1.25	21.2	870
LVIE07CXSWY2010C2.5S	10	2.5	0.70	1.00	1.80	1.25	21.9	930
LVIE07CXSWY2012C2.5S	12	2.5	0.70	1.00	1.80	1.60	23.2	1100
LVIE07CXSWY2014C2.5S	14	2.5	0.70	1.00	1.80	1.60	24.0	1210
LVIE07CXSWY2016C2.5S	16	2.5	0.70	1.00	1.80	1.60	25.0	1320
LVIE07CXSWY2019C2.5S	19	2.5	0.70	1.00	1.80	1.60	26.1	1450
LVIE07CXSWY2021C2.5S	21	2.5	0.70	1.00	1.80	1.60	27.2	1570
LVIE07CXSWY2024C2.5S	24	2.5	0.70	1.00	1.90	1.60	29.7	1770
LVIE07CXSWY2027C2.5S	27	2.5	0.70	1.00	1.90	1.60	30.2	1880
LVIE07CXSWY2030C2.5S	30	2.5	0.70	1.00	1.90	1.60	31.1	2010
LVIE07CXSWY2033C2.5S	33	2.5	0.70	1.00	1.90	1.60	32.1	2150
LVIE07CXSWY2037C2.5S	37	2.5	0.70	1.00	2.00	1.60	33.4	2330
LVIE07CXSWY2044C2.5S	44	2.5	0.70	1.20	2.10	2.00	38.2	3000
LVIE07CXSWY2052C2.5S	52	2.5	0.70	1.20	2.20	2.00	39.8	3330
LVIE07CXSWY2061C2.5S	61	2.5	0.70	1.20	2.20	2.00	41.9	3700

### 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 <sup>2</sup>	No.	Ω/km	Amp.	Amp.
1.5	2	7.41	44	39.6
1.5	3	7.41	37	33

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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 <sup>2</sup>	No.	Ω/km	Amp.	Amp.
1.5	4	7.41	37	33
1.5	5	7.41	37	33
1.5	6	7.41	33.5	30
1.5	7	7.41	29	25
1.5	8	7.41	25	22
1.5	9	7.41	25	22
1.5	10	7.41	25	22
1.5	12	7.41	21.6	20
1.5	14	7.41	21.6	20
1.5	16	7.41	19	17.6
1.5	19	7.41	19	17.6
1.5	21	7.41	17	15
1.5	24	7.41	17	15
1.5	27	7.41	15	14
1.5	30	7.41	15	14
1.5	33	7.41	15	14
1.5	37	7.41	15	14
1.5	44	7.41	13	12
1.5	52	7.41	13	12
1.5	61	7.41	13	12

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