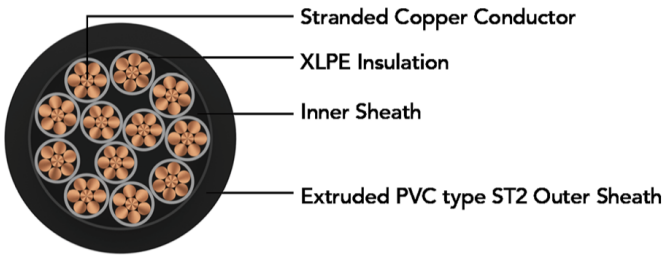
POLYCAB LV 1.5 CU IEC 60502-1 0.6/1 KV MC UA
Control Cable, 0.6/1 (1.2) KV AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB LV 1.5 CU IEC 60502-1 0.6/1 KV MC UA, stranded compacted copper conductor, XLPE insulated, and PVC sheathed unarmoured 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: 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
- 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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POLYCAB
IDEAS. CONNECTED.

Weight & Dimension Data

Product Code	Number of cores	Nominal Cross-sectional Area	Nominal insulation thickness	Nominal sheath thickness	Overall diameter (Approx.)	Weight (Approx.)
	No.	mm²	mm	mm	mm	Kg/Km
LVIE07CXUAY2002C1.5S	2	1.5	0.70	1.80	11.6	160
LVIE07CXUAY2003C1.5S	3	1.5	0.70	1.80	12.1	190
LVIE07CXUAY2004C1.5S	4	1.5	0.70	1.80	12.9	220
LVIE07CXUAY2005C1.5S	5	1.5	0.70	1.80	13.7	245
LVIE07CXUAY2006C1.5S	6	1.5	0.70	1.80	14.6	280
LVIE07CXUAY2007C1.5S	7	1.5	0.70	1.80	14.6	300
LVIE07CXUAY2008C1.5S	8	1.5	0.70	1.80	15.9	340
LVIE07CXUAY2009C1.5S	9	1.5	0.70	1.80	17.0	370
LVIE07CXUAY2010C1.5S	10	1.5	0.70	1.80	17.6	400
LVIE07CXUAY2012C1.5S	12	1.5	0.70	1.80	18.1	440
LVIE07CXUAY2014C1.5S	14	1.5	0.70	1.80	18.8	490
LVIE07CXUAY2016C1.5S	16	1.5	0.70	1.80	19.7	540
LVIE07CXUAY2019C1.5S	19	1.5	0.70	1.80	20.6	610
LVIE07CXUAY2021C1.5S	21	1.5	0.70	1.80	21.6	660
LVIE07CXUAY2024C1.5S	24	1.5	0.70	1.80	23.6	750
LVIE07CXUAY2027C1.5S	27	1.5	0.70	1.80	24.0	810
LVIE07CXUAY2030C1.5S	30	1.5	0.70	1.80	24.8	880
LVIE07CXUAY2033C1.5S	33	1.5	0.70	1.80	25.7	950
LVIE07CXUAY2037C1.5S	37	1.5	0.70	1.80	26.6	1030
LVIE07CXUAY2044C1.5S	44	1.5	0.70	1.90	29.8	1220
LVIE07CXUAY2052C1.5S	52	1.5	0.70	1.90	31.0	1390
LVIE07CXUAY2061C1.5S	61	1.5	0.70	2.00	33.4	1640

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	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
mm²	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

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