



Images not to scale. Follow table for dimensions

## APPLICATION

POLY CAB 1.5 2XY MC, Stranded/solid copper conductor, XLPE insulated, PVC inner sheathed, and PVC sheathed confirming to IS 7098-1 is suitable for AC single phase or three phase (earthed or unearthing) systems with rated voltage up to and including 1100 V. This cable is also suitable for DC systems with rated voltage up to and including 1500 V to earth.

## CHARACTERISTICS

### Voltage Rating

650/1100 V

### Operation Temperature

Max.: 90°C

Short circuit temperature 250°C

## CONSTRUCTION

- Stranded Copper conductor as per IS 8130, class 1&2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Extruded inner sheath with PVC Type ST2/FRLS/FR/LSZH
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH

### Core Identification

Red, Yellow, Blue, Black & Grey upto 5Core & 6 Core & above  
Grey with number printing

### Bending Radius

Fixed installation 12 x Overall diameter

## OUTSTANDING FEATURES

- High life
- High Insulation resistance
- Flame retardant
- Low Halogen
- Low smoke
- UV resistant

## STANDARD FOLLOWS

IS 8130:2013

IS 5831:1984

IS 7098-1:1988

## COMPLIANCE

Conductor resistance - IS 8130:2013

Insulation resistance - IS 7098-1:1988

Flammability test - IEC 60332-1:2015

## OUR ACCREDITATIONS



## APPROVAL



# POLY CAB 1.5 2XY MC IS 7098-P1 CONTROL CABLE 650/1100 V AC

**POLY CAB**  
IDEAS. CONNECTED.

## Weight & Dimension Data

Product code	Number of cores	Nominal Thickness of Insulation	Nominal thickness of outer sheath	Overall Diameter	Weight (Approx.)
					kg/km
	No's	mm	mm	mm	
LVIS09CXUAY2002C1.5SA001S	2	0.7	1.8	10	140
LVIS09CXUAY2003C1.5SA001S	3	0.7	1.8	10.5	160
LVIS09CXUAY2004C1.5SA001P	4	0.7	1.8	11.5	171
LVIS09CXUAY2005C1.5SA002S	5	0.7	1.8	12.1	195
LVIS09CXUAY2006C1.5SA002S	6	0.7	1.8	12.9	222
LVIS09CXUAY2007C1.5SA001S	7	0.7	1.8	12.9	239
LVIS09CXUAY2008C1.5SA001S	8	0.7	1.8	14	275
LVIS09CXUAY2009C1.5SA002S	9	0.7	1.8	15	308
LVIS09CXUAY2010C1.5SA001S	10	0.7	1.8	15.7	327
LVIS09CXUAY2012C1.5SA001S	12	0.7	1.8	16.1	365
LVIS09CXUAY2014C1.5SA002S	14	0.7	1.8	16.8	413
LVIS09CXUAY2016C1.5SA001S	16	0.7	1.8	17.7	460
LVIS09CXUAY2019C1.5SA001S	19	0.7	1.8	18.5	513
LVIS09CXUAY2021C1.5SA002S	21	0.7	2	19.8	560
LVIS09CXUAY2024C1.5SA001S	24	0.7	2	21.7	627
LVIS09CXUAY2027C1.5SA001S	27	0.7	2	22.1	684
LVIS09CXUAY2030C1.5SA001S	30	0.7	2	22.8	741
LVIS09CXUAY2033C1.5SA001S	33	0.7	2	23.7	807
LVIS09CXUAY2037C1.5SA001S	37	0.7	2	24.5	874
LVIS09CXUAY2044C1.5SA002S	44	0.7	2	27.3	1026
LVIS09CXUAY2052C1.5SA002S	52	0.7	2	28.4	1178
LVIS09CXUAY2061C1.5SA001S	61	0.7	2.2	30.7	1387

Solid & stranded conductor

The above data is approximate & subject to manufacturing tolerance.

## Electrical parameter

Cross sectional area	Number of cores	Max. DC conductor resistance at 20°C	Current Rating				
			Sqmm	No's	Ω/km	In Ground (A)	In Air(A)
1.5	2	12.1			31	27	
1.5	3	12.1			26	23	
1.5	4	12.1			26	23	

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**POLY CAB 1.5 2XY MC IS 7098-P1  
CONTROL CABLE 650/1100 V AC**

**POLY CAB**  
IDEAS. CONNECTED.

Cross sectional area Sqmm	Number of cores No's	Max. DC conductor resistance at 20°C Ω/km	Current Rating	
			In Ground (A)	In Air(A)
1.5	5	12.1	26	23
1.5	6	12.1	23	20
1.5	7	12.1	20	18
1.5	8	12.1	17	15
1.5	9	12.1	17	15
1.5	10	12.1	17	15
1.5	12	12.1	16	14
1.5	14	12.1	16	14
1.5	16	12.1	14	12
1.5	19	12.1	14	12
1.5	21	12.1	12	11
1.5	24	12.1	12	11
1.5	27	12.1	11	9
1.5	30	12.1	11	9
1.5	33	12.1	11	9
1.5	37	12.1	11	9
1.5	44	12.1	9	8
1.5	52	12.1	9	8
1.5	61	12.1	9	8

Air Ambient temperature: 40°C, ground ambient temperature: 30°C, Conductor operating temperature: 90°C