



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB 1.5 2XWY MC, Stranded/solid copper conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel round wire armour 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
- Armoured with Galvanised Steel round wire to IS 3975
- 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

Outer sheath colour: Black
*Other colour also available on request.

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 3975:1979
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 2XWY 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 dimension of Armour round wire	Minimum thickness of outer sheath	Overall Diameter		
						No's	mm
LVIS09CXSWY2002C1.5SA002S	2	0.7	1.4	1.24	11.9		mm
LVIS09CXSWY2003C1.5SA002S	3	0.7	1.4	1.24	12.4		mm
LVIS09CXSWY2004C1.5SA002S	4	0.7	1.4	1.24	13.1		mm
LVIS09CXSWY2005C1.5SA002S	5	0.7	1.4	1.24	13.9		mm
LVIS09CXSWY2006C1.5SA001S	6	0.7	1.4	1.24	14.7		mm
LVIS09CXSWY2007C1.5SA001S	7	0.7	1.4	1.24	14.7		mm
LVIS09CXSWY2008C1.5SA001S	8	0.7	1.4	1.24	16.5		mm
LVIS09CXSWY2009C1.5SA001S	9	0.7	1.4	1.24	17.5		mm
LVIS09CXSWY2010C1.5SA001S	10	0.7	1.4	1.24	17.5		mm
LVIS09CXSWY2012C1.5SA001S	12	0.7	1.4	1.24	18		mm
LVIS09CXSWY2014C1.5SA001S	14	0.7	1.4	1.4	18.9		mm
LVIS09CXSWY2016C1.5SA001S	16	0.7	1.6	1.4	20.1		mm
LVIS09CXSWY2019C1.5SA001S	19	0.7	1.6	1.4	20.9		mm
LVIS09CXSWY2021C1.5SA002S	21	0.7	1.6	1.4	21.8		mm
LVIS09CXSWY2024C1.5SA001S	24	0.7	1.6	1.4	23.7		mm
LVIS09CXSWY2027C1.5SA002S	27	0.7	1.6	1.4	24.1		mm
LVIS09CXSWY2030C1.5SA001S	30	0.7	1.6	1.4	24.9		mm
LVIS09CXSWY2033C1.5SA001S	33	0.7	1.6	1.4	25.7		mm
VIS09CXSWY2037C1.5SA001S	37	0.7	1.6	1.4	26.5		mm
LVIS09CXSWY2044C1.5SA002S	44	0.7	1.6	1.56	29.7		mm
LVIS09CXSWY2052C1.5SA002S	52	0.7	1.6	1.56	30.9		mm
LVIS09CXSWY2061C1.5SA002S	61	0.7	2	1.56	33.5		mm

Solid & stranded conductor

The above data is approximate & subject to manufacturing tolerance.

Electrical characteristics

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

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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	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