



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB A2XY MC-2, Stranded compacted aluminium conductor, XLPE insulated 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 compacted (≤ 16 sqmm)/Non compacted aluminium 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 and Black

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



Weight & Dimension Data

Product code	Nominal cross sectional area	Class of conductor	Nominal Thickness of Insulation	Nominal thickness of outer sheath	Overall Diameter	Weight (Approx.)
	n x mm ²		mm	mm	mm	kg/km
LVIS09AXUAY2002C004SA001S	2 x 4	Class 1	0.7	1.8	12.5	140
LVIS09AXUAY2002C006SA001S	2 x 6	Class 1	0.7	1.8	13.5	170
LVIS09AXUAY2002C010SA001S	2 x 10	Class 1	0.7	1.8	15	205
LVIS09AXUAY2002C004SA002S	2 x 4	Class 2	0.7	1.8	13	150
LVIS09AXUAY2002C006SA002S	2 x 6	Class 2	0.7	1.8	14	180
LVIS09AXUAY2002C010SA002S	2 x 10	Class 2	0.7	1.8	16	225
LVIS09AXUAY2002C016SA001S	2 x 16	Class 2	0.7	1.8	14	225
LVIS09AXUAY2002C025SA001S	2 x 25	Class 2	0.9	2	17	330
LVIS09AXUAY2002C035SA001S	2 x 35	Class 2	0.9	2	19	410
LVIS09AXUAY2002C050SA001S	2 x 50	Class 2	1	2	21	510
LVIS09AXUAY2002C070SA001S	2 x 70	Class 2	1.1	2	23	675
LVIS09AXUAY2002C095SA001S	2 x 95	Class 2	1.1	2.2	26.5	893
LVIS09AXUAY2002C120SA001S	2 x 120	Class 2	1.2	2.2	28.5	1050
LVIS09AXUAY2002C150SA001S	2 x 150	Class 2	1.4	2.2	32	1215
LVIS09AXUAY2002C185SA001S	2 x 185	Class 2	1.6	2.4	35.5	1510
LVIS09AXUAY2002C240SA001S	2 x 240	Class 2	1.7	2.6	39.5	1900
LVIS09AXUAY2002C300SA001S	2 x 300	Class 2	1.8	2.8	43.5	2360
LVIS09AXUAY2002C400SA001S	2 x 400	Class 2	2	3	49	3100
LVIS09AXUAY2002C500SA001S	2 x 500	Class 2	2.2	3.4	55.5	4000
LVIS09AXUAY2002C630SA001S	2 x 630	Class 2	2.4	3.6	61.5	4997

The above data is approximate & subject to manufacturing tolerance.

Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

Nominal area of conductor mm ²	Buried direct in the ground		In single way Ducts	In air	Max. DC conductor resistance at 20°C Ω/km
	Amp.	Amp.	Amp.	Amp.	
4	42		36	38	7.41
6	55		46	50	4.61
10	68		57	64	3.08
16	89		74	83	1.91

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Nominal area of conductor mm²	Buried direct in the ground	In single way Ducts	In air	Max. DC conductor resistance at 20°C Ω/km
	Amp.	Amp.	Amp.	
25	114	95	109	1.2
35	136	113	133	0.868
50	161	134	162	0.641
70	197	164	204	0.443
95	235	196	251	0.32
120	266	222	287	0.253
150	296	248	328	0.206
185	335	281	379	0.164
240	385	324	448	0.125
300	432	364	513	0.100
400	487	412	593	0.0778
500	548	463	683	0.0605
630	612	518	784	0.0469

Air Ambient temperature: 40°C

Ground ambient temperature: 30°C,

The above table is in accordance with IS 3961(part 6):2016

De-Rating Factor

Rating factor for variation in ambient air temperature for cable in free air

Ambient air Temperature	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
De-Rating Factor	1.14	1.10	1.05	1.00	0.95	0.89	0.84	0.77

Maximum conductor temperature 90°C

Rating factor for variation in ground temperature for direct buried cables.

Ground Temperature	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C
De-Rating Factor	1.12	1.08	1.04	1.00	0.96	0.91	0.87	0.82

Maximum conductor temperature 90°C

Rating factor for variation in ground temperature for cable in duct.

Ground Temperature	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C
De-Rating Factor	1.12	1.08	1.04	1.00	0.96	0.91	0.87	0.82

Maximum conductor temperature 90°C