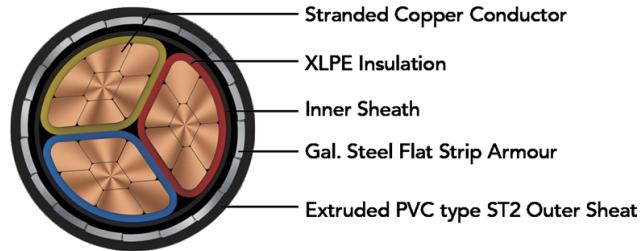


POLY CAB 2XFY MC-3 IS 7098-P1 POWER CABLE 650/1100 V AC

POLY CAB
IDEAS. CONNECTED.



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB 2XFY MC-3, Stranded compacted copper conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel Flat strip armour and PVC sheathed confirming to IS 7098-1 is suitable for AC single phase or three phase (earthed or unearthed) 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 plain compacted sector shaped copper conductor as per IS 8130, class 2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Extruded inner sheath with PVC Type ST2/FRLS/FR/LSZH
- Armoured with Galvanised Flat Steel Strip to IS 3975
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH

Core Identification

Red, Yellow, Blue

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



POLYCAT 2XFY MC-3 IS 7098-P1 POWER CABLE 650/1100 V AC

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Weight & Dimension Data

Product code	Nominal cross-sectional area	Nominal Thickness of Insulation	Nominal dimension of Armour flat wire	Minimum thickness of outer sheath	Overall Diameter	Weight (Approx.)
	n x mm ²	mm	mm	mm	mm	kg/km
LVIS09CXSFY2003C016SA001S	3 x16	0.7	4x0.8	1.24	16.8	772.3
LVIS09CXSFY2003C025SA001S	3 x25	0.9	4x0.8	1.4	20.1	1102
LVIS09CXSFY2003C035SA001S	3 x35	0.9	4x0.8	1.4	22	1396
LVIS09CXSFY2003C050SA001S	3 x50	1	4x0.8	1.4	24.8	1767
LVIS09CXSFY2003C070SA001S	3 x70	1.1	4x0.8	1.56	28.5	2441
LVIS09CXSFY2003C095SA001S	3 x95	1.1	4x0.8	1.56	31.3	3182
LVIS09CXSFY2003C120SA001S	3 x120	1.2	4x0.8	1.56	34.3	3895
LVIS09CXSFY2003C150SA001S	3 x150	1.4	4x0.8	1.72	38.3	4759
LVIS09CXSFY2003C185SA001S	3 x185	1.6	4x0.8	1.88	42.3	5852
LVIS09CXSFY2003C240SA001S	3 x240	1.7	4x0.8	2.04	47.2	7505
LVIS09CXSFY2003C300SA001S	3 x300	1.8	4x0.8	2.2	51.8	9243
LVIS09CXSFY2003C400SA001S	3 x400	2	4x0.8	2.52	58.5	11704

The above data is approximate & subject to manufacturing tolerance.

Electrical characteristics

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.	
16	95	79	89	1.15
25	122	102	119	0.727
35	146	122	147	0.524
50	173	144	179	0.387
70	212	177	226	0.268
95	254	212	279	0.193
120	287	240	320	0.153
150	321	269	365	0.124
185	362	304	422	0.0991
240	418	352	500	0.0754
300	469	396	574	0.0601
400	528	447	662	0.047

**POLY CAB 2XFY MC-3 IS 7098-P1
POWER CABLE 650/1100 V AC**

POLY CAB
IDEAS. CONNECTED.

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