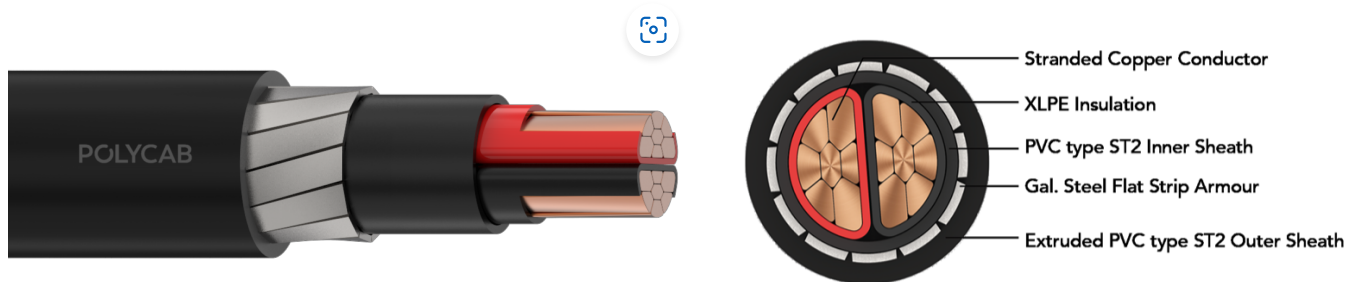


# POLYCAB 2XFY MC-2 IS 7098-P1 POWER CABLE 650/1100 V AC



Images not to scale. Follow table for dimensions

## APPLICATION

POLYCAB 2XFY MC-2, stranded compacted copper conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel Flat strip armoured, and PVC sheathed conforming 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 to IS 5831
- Armoured with Galvanised Flat Steel Strip to IS 3975
- Sheathed with Extruded PVC Type ST2 to IS 5831

**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 3975:1979  
IS 7098-1:1988

## COMPLIANCE

Conductor resistance - IS 8130  
Insulation resistance - IS 7098-1:1988  
Flammability test - IEC 60332-1

## OUR ACCREDITATIONS



## APPROVAL



# POLYCAB 2XFY MC-2 IS 7098-P1

## POWER CABLE 650/1100 V AC

### 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 <sup>2</sup>	mm	mm	mm	mm	kg/km
LVIS09CXSFY2002C025SA001S	2 x25	0.9	4x0.8	1.4	18.5	804.4
LVIS09CXSFY2002C035SA001S	2 x35	0.9	4x0.8	1.4	20	1019.7
LVIS09CXSFY2002C050SA001S	2 x50	1	4x0.8	1.4	22.5	1311
LVIS09CXSFY2002C070SA001S	2 x70	1.1	4x0.8	1.56	25.5	1757
LVIS09CXSFY2002C095SA001S	2 x95	1.1	4x0.8	1.56	28	2289
LVIS09CXSFY2002C120SA001S	2 x120	1.2	4x0.8	1.56	30.5	2755
LVIS09CXSFY2002C150SA001S	2 x150	1.4	4x0.8	1.72	31.8	3353
LVIS09CXSFY2002C185SA001S	2 x185	1.6	4x0.8	1.72	37	4094
LVIS09CXSFY2002C240SA001S	2 x240	1.7	4x0.8	1.88	38.7	5225
LVIS09CXSFY2002C300SA001S	2 x300	1.8	4x0.8	2.04	42.5	6412
LVIS09CXSFY2002C400SA001S	2 x400	2	4x0.8	2.36	48.2	8075

The above data is approximate & subject to manufacturing tolerance.

### Electrical characteristics

Nominal area of conductor	Buried direct in the ground	In single way Ducts	In air	Max. DC conductor resistance at 20°C
mm <sup>2</sup>	Amp.	Amp.	Amp.	Ω/km
16	115	96	108	1.15
25	147	122	140	0.727
35	176	146	172	0.524
50	208	173	208	0.387
70	253	211	262	0.268
95	302	252	322	0.193
120	340	284	368	0.153
150	379	317	419	0.124
185	425	357	482	0.0991
240	486	409	566	0.0754
300	541	456	644	0.0601
400	602	508	734	0.047

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

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