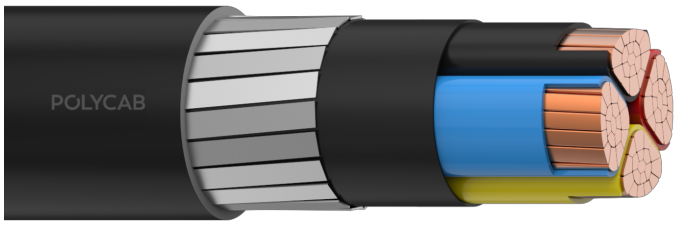
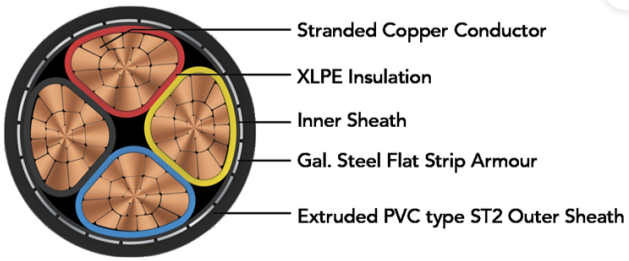
POLYCAB 2XFY MC-4 IS 7098-P1
POWER CABLE 650/1100 V AC





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB 2XFY MC-4, 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 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 8130:2013
Insulation resistance - IS 7098-1:1988
Flammability test - IEC 60332-1:2015

OUR ACCREDITATIONS

APPROVAL

POLYCAB 2XFY MC-4 IS 7098-P1
POWER CABLE 650/1100 V AC

POLYCAB
IDEAS. CONNECTED.

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 mm²	mm	mm	mm	mm	kg/km
LVIS09CXSFY2004C016SA001S	4 x16	0.7	4x0.8	1.4	20	969
LVIS09CXSFY2004C025SA001S	4 x25	0.9	4x0.8	1.4	23	1406
LVIS09CXSFY2004C035SA001S	4 x35	0.9	4x0.8	1.4	25	1786
LVIS09CXSFY2004C050SA001S	4 x50	1	4x0.8	1.56	28	2308
LVIS09CXSFY2004C070SA001S	4 x70	1.1	4x0.8	1.56	32	3154
LVIS09CXSFY2004C095SA001S	4 x95	1.1	4x0.8	1.56	35	4161
LVIS09CXSFY2004C120SA001S	4 x120	1.2	4x0.8	1.72	39	5101
LVIS09CXSFY2004C150SA001S	4 x150	1.4	4x0.8	1.88	43.5	6232
LVIS09CXSFY2004C185SA001S	4 x185	1.6	4x0.8	2.04	48	7676
LVIS09CXSFY2004C240SA001S	4 x240	1.7	4x0.8	2.2	54	9880
LVIS09CXSFY2004C300SA001S	4 x300	1.8	4x0.8	2.36	59.5	12198

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
mm²	Amp.	Amp.	Amp.	Ω/km
16	95	79	89	1.91
25	122	102	119	1.2
35	146	122	147	0.868
50	173	144	179	0.641
70	212	177	226	0.443
95	254	212	279	0.32
120	287	240	320	0.253
150	321	269	365	0.206
185	362	304	422	0.164
240	418	352	500	0.125
300	469	396	574	0.100
400	528	447	662	0.0778

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

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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