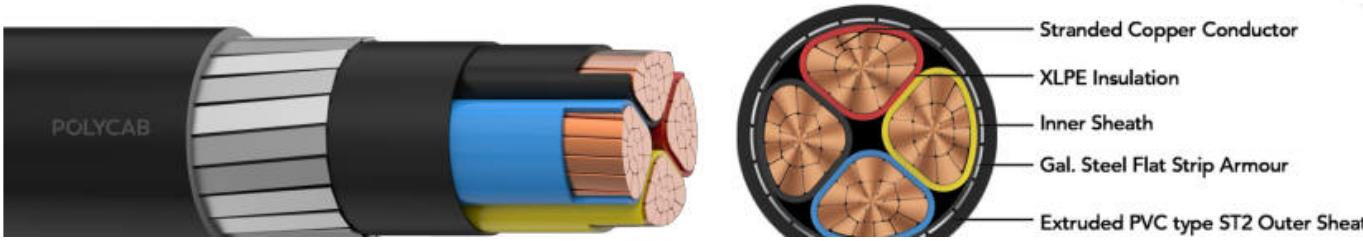
LOW VOLTAGE POWER CABLE · INDOCABLES 2XFY MC-4 · 4 CORE STRIP ARMOURED

650/1100 V AC · 4 CORE COPPER

Stranded compacted copper conductor · XLPE insulated · PVC inner sheathed · galvanized steel flat strip armour · PVC sheathed to IS 7098-1

650/1100 V	90 °C max.	250 °C	16–300 mm²
Voltage rating	Operating temperature	Short-circuit temperature	Size range, 4 core



CABLE / SIDE VIEW & CROSS SECTION · LAYER CALLOUTS

Images not to scale. Follow table for dimensions.

APPLICATION

INDOCABLES 2XFY MC-4, Stranded compacted copper conductor, XLPE insulated, PVC inner sheathed, Galvanized 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.

CONSTRUCTION

Conductor	Stranded plain compacted sector shaped Copper conductor as per IS 8130, class 2
Insulation	Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
Inner sheath	Extruded inner sheath with PVC Type ST2/FRLS/FR/LSZH
Armour	Armoured with Galvanized Flat Steel Strip to IS 3975
Outer sheath	Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH
Core identification	Red, Yellow, Blue and Black
Bending radius	Fixed installation 12 x Overall diameter

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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

ISI
Bureau of Indian Standards · CM/L 6200267409

ISO 9001
Cert. 99 100 22646 (TÜV SÜD)

RoHS
Compliant

REACH
Compliant

Make in India
Manufactured in India

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WEIGHT & DIMENSION DATA

Product code	Nominal cross-sectional area n x mm²	Nominal thickness of insulation mm	Nominal dimension of armour flat wire mm	Minimum thickness of outer sheath mm	Overall diameter mm	Weight (approx.) kg/km
IC-PW-04-01600-CU-2XL-2XFY-1100-IS7098P1-FRLS	4 x 16	0.7	4x0.8	1.4	20	969
IC-PW-04-02500-CU-2XL-2XFY-1100-IS7098P1-FRLS	4 x 25	0.9	4x0.8	1.4	23	1406
IC-PW-04-03500-CU-2XL-2XFY-1100-IS7098P1-FRLS	4 x 35	0.9	4x0.8	1.4	25	1786
IC-PW-04-05000-CU-2XL-2XFY-1100-IS7098P1-FRLS	4 x 50	1	4x0.8	1.56	28	2308
IC-PW-04-07000-CU-2XL-2XFY-1100-IS7098P1-FRLS	4 x 70	1.1	4x0.8	1.56	32	3154
IC-PW-04-09500-CU-2XL-2XFY-1100-IS7098P1-FRLS	4 x 95	1.1	4x0.8	1.56	35	4161
IC-PW-04-12000-CU-2XL-2XFY-1100-IS7098P1-FRLS	4 x 120	1.2	4x0.8	1.72	39	5101
IC-PW-04-15000-CU-2XL-2XFY-1100-IS7098P1-FRLS	4 x 150	1.4	4x0.8	1.88	43.5	6232
IC-PW-04-18500-CU-2XL-2XFY-1100-IS7098P1-FRLS	4 x 185	1.6	4x0.8	2.04	48	7676
IC-PW-04-24000-CU-2XL-2XFY-1100-IS7098P1-FRLS	4 x 240	1.7	4x0.8	2.2	54	9880
IC-PW-04-30000-CU-2XL-2XFY-1100-IS7098P1-FRLS	4 x 300	1.8	4x0.8	2.36	59.5	12198

The above data is approximate & subject to manufacturing tolerance. Codes read 04 = 4 core · CU · 2XL XLPE · 2XFY strip armoured, PVC sheathed · 1100 V grade · IS 7098 Part 1 · FRLS.

All eleven codes are registered in the Indo Cables Item Master (IC1001075–IC1001105). Every register row still carries STATUS DRAFT — the steward must move them to ACTIVE before quoting.

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ELECTRICAL CHARACTERISTICS

Nominal area of conductor mm²	Buried direct in the ground Amp.	In single way ducts Amp.	In air Amp.	Max. DC conductor resistance at 20°C 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** | Ratings to **IS 3961 (Part 6):2016**

† The source carries a current rating for 400 mm² but no 400 mm² row in the weight & dimension table, and no product code — reproduced as written, flagged for check.

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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

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

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 for all three tables. ‡ The source gives the in-duct table the same eight factors as the direct-buried table above it — reproduced as written, flagged for check.

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