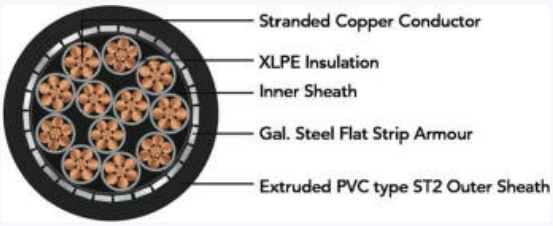
MULTICORE CONTROL CABLE · XLPE · GALVANISED STEEL STRIP ARMOUR · IS 7098-1

INDOCABLES 2.5 2XFY MC IS 7098-P1 CONTROL CABLE

650/1100 V AC



Images not to scale. Follow table for dimensions

APPLICATION

INDOCABLES 2.5 2XFY MC, Stranded/solid copper conductor, XLPE insulated, Galvanized Steel strip armor 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

01 Stranded Copper conductor as per IS 8130, class 1&2

02 Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1

03 Extruded inner sheath with PVC Type ST2/FRLS/FR/LSZH

04 Armoured with Galvanised Steel strip to IS 3975

05 Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH

CHARACTERISTICS

VOLTAGE RATING	650/1100 V
OPERATION TEMPERATURE	Max.: 90°C
SHORT CIRCUIT TEMPERATURE	250°C
CORE IDENTIFICATION	Grey with number printing
OUTER SHEATH COLOUR	Black *Other colour also available on request.
BENDING RADIUS	Fixed installation 12 x Overall diameter

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OUTSTANDING FEATURES

- HIGH LIFE
- HIGH INSULATION RESISTANCE
- FLAME RETARDANT
- 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

ACCREDITATIONS & APPROVAL

ISI · ISO 9001 · Make in India

IS 7098-1 · CM/L 6200267409

TABLE 1 WEIGHT & DIMENSION DATA

PRODUCT CODE	NUMBER OF CORES No's	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-CT-10-00250-CU-2XL-2XFY-1100-IS7098P1-FRLS	10	0.7	4x0.8	1.24	17.8	624
IC-CT-12-00250-CU-2XL-2XFY-1100-IS7098P1-FRLS	12	0.7	4x0.8	1.4	18.5	694
IC-CT-14-00250-CU-2XL-2XFY-1100-IS7098P1-FRLS	14	0.7	4x0.8	1.4	19.3	780
IC-CT-16-00250-CU-2XL-2XFY-1100-IS7098P1-FRLS	16	0.7	4x0.8	1.4	20.2	867
IC-CT-19-00250-CU-2XL-2XFY-1100-IS7098P1-FRLS	19	0.7	4x0.8	1.4	21.2	960
IC-CT-21-00250-CU-2XL-2XFY-1100-IS7098P1-FRLS *	21	0.7	4x0.8	1.4	22.2	1016
IC-CT-24-00250-CU-2XL-2XFY-1100-IS7098P1-FRLS	24	0.7	4x0.8	1.4	24.4	1159
IC-CT-27-00250-CU-2XL-2XFY-1100-IS7098P1-FRLS	27	0.7	4x0.8	1.4	24.9	1235
IC-CT-30-00250-CU-2XL-2XFY-1100-IS7098P1-FRLS	30	0.7	4x0.8	1.4	25.7	1349
IC-CT-33-00250-CU-2XL-2XFY-1100-IS7098P1-FRLS *	33	0.7	4x0.8	1.4	26.6	1437
IC-CT-37-00250-CU-2XL-2XFY-1100-IS7098P1-FRLS	37	0.7	4x0.8	1.4	27.6	1567
IC-CT-44-00250-CU-2XL-2XFY-1100-IS7098P1-FRLS	44	0.7	4x0.8	1.56	31.3	1862
IC-CT-52-00250-CU-2XL-2XFY-1100-IS7098P1-FRLS	52	0.7	4x0.8	1.56	32.6	2109
IC-CT-61-00250-CU-2XL-2XFY-1100-IS7098P1-FRLS	61	0.7	4x0.8	1.56	34.5	2375

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Solid & stranded conductor

The above data is approximate & subject to manufacturing tolerance.

Product codes follow the Indo Cables product-code structure: IC – LINE – CORES – SIZE – CONDUCTOR – INSULATION – DESIGNATION – VOLTAGE – STANDARD – OPTION. 2XFY denotes XLPE insulation, galvanised steel strip armour and PVC sheath; FRLS the flame-retardant low-smoke sheath option. Twelve rows carry a register code (Item ID IC1001524 to IC1001590, all DRAFT). * The 21-core and 33-core codes are derived from the code structure: neither core count is in the CORES block on tab 5 REF TABLES and neither item is in the register.

TABLE 2 ELECTRICAL PARAMETER

Maximum DC conductor resistance and current rating.

CROSS SECTIONAL AREA Sqmm	NUMBER OF CORES No's	MAX. DC CONDUCTOR RESISTANCE AT 20°C Ω/km	CURRENT RATING	
			In Ground A	In Air A
2.5	10	7.41	23	20
2.5	12	7.41	20	18
2.5	14	7.41	20	18
2.5	16	7.41	18	16
2.5	19	7.41	18	16
2.5	21	7.41	16	14
2.5	24	7.41	16	14
2.5	27	7.41	14	13
2.5	30	7.41	14	13
2.5	33	7.41	14	13
2.5	37	7.41	14	13
2.5	44	7.41	12	11
2.5	52	7.41	12	11
2.5	61	7.41	12	11

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

FLAGGED FOR CONFIRMATION

01 Core counts 21 and 33 are absent from the CORES block on tab 5 REF TABLES. They follow the two-digit rule and are used here; each needs one typed row, and the two derived codes need Item Master entries before they go ACTIVE.

02 The twelve register items matched here are all at status DRAFT. An IS-standard item needs its BIS CM/L confirmed before it may be quoted as ACTIVE.

03 The source sheet gives armour 4x0.8 mm flat strip on every row from 10 to 61 cores while the outer-sheath minimum steps 1.24 → 1.4 mm at 12 cores and 1.4 → 1.56 mm at 44 cores. Reproduced as written.

04 The construction steps sit in overlapping floating text boxes in the source, which places the inner sheath after the armour. Order is normalised to conductor, insulation, inner sheath, armour, outer sheath; wording is unchanged.

05 The application paragraph on the source sheet omits the inner sheath, which the construction list and the cross-section both carry. Reproduced as written.

06 Sheath compound reads ST2/FRLS/FR/LSZH. Codes on this sheet carry the FRLS option, matching the source code. An ST2, FR or LSZH build takes the matching option segment (NONE, FR, ZHFR) and is a different item.

07 The ISO 9001 mark is a 52 × 53 px crop from a supplied screenshot and prints well below the resolution a 300 dpi sheet needs; supply a vector or print-resolution file. No RoHS or REACH mark is printed: no control-cable source sheet claims either, so the marks would be an unsupported compliance claim. Confirm whether the range is RoHS and REACH certified and supply those logo files if it is. The Make in India mark is a 76 × 39 px crop from a supplied screenshot and prints at roughly a quarter of the resolution a 300 dpi sheet needs; supply a print-resolution file or hold the mark off the sheet. The reference header shows a lockup carrying the tagline EVERY CONNECTION MATTERS. No supplied logo file contains it and the design system has no confirmed tagline, so the header prints the stacked lockup alone; supply that lockup, or confirm the tagline, to set it.