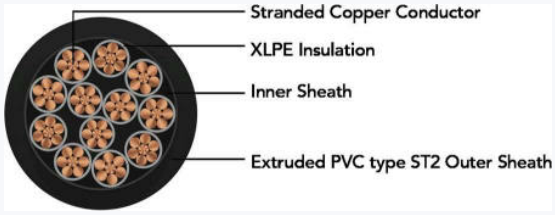
MULTICORE CONTROL CABLE · XLPE · UNARMOURED · PVC INNER AND OUTER SHEATH · IS 7098-1

INDOCABLES 2.5 2XY MC IS 7098-P1 CONTROL CABLE

650/1100 V AC



Images not to scale. Follow table for dimensions

APPLICATION

INDOCABLES 2.5 2XY MC, Stranded/solid copper conductor, XLPE insulated, PVC inner sheathed, 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 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	Red, Yellow, Blue, Black & Grey upto 5Core & 6 Core & above Grey with number printing
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 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

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TABLE 1 WEIGHT & DIMENSION DATA

PRODUCT CODE	NUMBER OF CORES No's	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF OUTER SHEATH mm	OVERALL DIAMETER mm	WEIGHT (APPROX.) kg/km
IC-CT-02-00250-CU-2XL-2XY-1100-IS7098P1-FRLS *	2	0.7	1.8	10.9	173
IC-CT-03-00250-CU-2XL-2XY-1100-IS7098P1-FRLS *	3	0.7	1.8	11.4	202
IC-CT-04-00250-CU-2XL-2XY-1100-IS7098P1-FRLS *	4	0.7	1.8	12.2	218
IC-CT-05-00250-CU-2XL-2XY-1100-IS7098P1-FRLS	5	0.7	1.8	13.1	254
IC-CT-06-00250-CU-2XL-2XY-1100-IS7098P1-FRLS	6	0.7	1.8	14	291
IC-CT-07-00250-CU-2XL-2XY-1100-IS7098P1-FRLS	7	0.7	1.8	14	313
IC-CT-08-00250-CU-2XL-2XY-1100-IS7098P1-FRLS	8	0.7	1.8	16	342
IC-CT-09-00250-CU-2XL-2XY-1100-IS7098P1-FRLS *	9	0.7	1.8	16.5	385
IC-CT-10-00250-CU-2XL-2XY-1100-IS7098P1-FRLS	10	0.7	1.8	17.2	427
IC-CT-12-00250-CU-2XL-2XY-1100-IS7098P1-FRLS	12	0.7	1.8	17.7	484
IC-CT-14-00250-CU-2XL-2XY-1100-IS7098P1-FRLS	14	0.7	1.8	18.5	551
IC-CT-16-00250-CU-2XL-2XY-1100-IS7098P1-FRLS	16	0.7	2	19.8	636
IC-CT-19-00250-CU-2XL-2XY-1100-IS7098P1-FRLS	19	0.7	2	20.8	722
IC-CT-21-00250-CU-2XL-2XY-1100-IS7098P1-FRLS *	21	0.7	2	21.8	769
IC-CT-24-00250-CU-2XL-2XY-1100-IS7098P1-FRLS	24	0.7	2	24	864
IC-CT-27-00250-CU-2XL-2XY-1100-IS7098P1-FRLS	27	0.7	2	24.5	950
IC-CT-30-00250-CU-2XL-2XY-1100-IS7098P1-FRLS	30	0.7	2	25.3	1035
IC-CT-33-00250-CU-2XL-2XY-1100-IS7098P1-FRLS *	33	0.7	2	26.2	1130
IC-CT-37-00250-CU-2XL-2XY-1100-IS7098P1-FRLS	37	0.7	2	27.2	1235
IC-CT-44-00250-CU-2XL-2XY-1100-IS7098P1-FRLS	44	0.7	2.2	30.9	1501
IC-CT-52-00250-CU-2XL-2XY-1100-IS7098P1-FRLS	52	0.7	2.2	32.2	1719
IC-CT-61-00250-CU-2XL-2XY-1100-IS7098P1-FRLS	61	0.7	2.2	34.1	1976

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. 2XY denotes XLPE insulation, unarmoured, PVC sheath; FRLS the flame-retardant low-smoke sheath option. Sixteen rows carry a register code (Item ID IC1001498 to IC1001588, all DRAFT). * Six codes are derived from the code structure: the 2, 3, 4, 9, 21 and 33-core items are not in the register.

TABLE 2 ELECTRICAL PARAMETER

Maximum DC conductor resistance and current rating.

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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	2	7.41	41	36
2.5	3	7.41	34	30
2.5	4	7.41	34	30
2.5	5	7.41	34	30
2.5	6	7.41	31	27
2.5	7	7.41	27	23
2.5	8	7.41	23	20
2.5	9	7.41	23	20
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 Six of the 22 rows are not in the register. The 2XY control-cable range at 2.5 sq.mm starts at 5 cores, so the 2, 3, 4 and 9-core items have no row; 21 and 33 are absent from the CORES block on tab 5 REF TABLES as well. All six codes are derived from the code structure and need typed rows before those items go ACTIVE.

02 The sixteen 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.

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03 The source column reads `Nominal thickness of outer sheath`, not minimum, and the value steps 1.8 → 2 at 16 cores and 2 → 2.2 at 44 cores. The 6-core and 7-core rows share the same overall diameter, `14 mm`, at different weights. Reproduced as written.

04 Sheath compound reads `ST2/FRLS/FR/LSZH` in the construction text, while the cross-section illustration labels the outer layer `Extruded PVC type ST2 Outer Sheath`. Codes on this sheet carry the FRLS option, matching the source code, which reads XPS2FRLS and carries both ST2 and FRLS. An ST2, FR or LSZH build takes the matching option segment (`NONE`, `FR`, `ZHFR`) and is a different item.

05 Core identification reads `Red, Yellow, Blue, Black & Grey upto 5Core & 6 Core & above Grey with number printing`. Reproduced as written; the swatches show the five colours in that order.

06 The source sheet carried a NABL laboratory mark in Our Accreditations and an FQC mark in Approval. Both have been removed. The ISI mark carried on the source is kept and the ISO 9001 badge added, both printed on every sheet; the BIS licence line shows `CM/L 6200267409`, the licence carried on the register's IS 7098 Part 1 control-cable rows.

07 The supplied icon set has no low-halogen icon. A labelled placeholder holds that tile; commission a matching illustrated icon.

08 The Make in India mark in the Certification block was cropped from a supplied screenshot at `76 × 39 px`. It prints at roughly a quarter of the resolution it needs and the lettering inside the lion will not hold. Supply the official vector or high-resolution file before this sheet goes to print.

09 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. 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. 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.