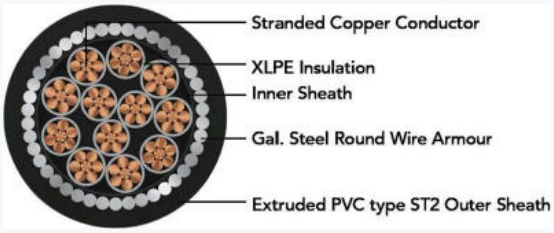
MULTICORE CONTROL CABLE · XLPE · STEEL WIRE ARMOURED · IS 7098-1

INDOCABLES 1.5 2XWY MC IS 7098-P1 CONTROL CABLE, 650/1100 V AC



Images not to scale. Follow table for dimensions

APPLICATION

INDOCABLES 1.5 2XWY MC, Stranded/solid copper conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel round wire 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

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 round wire 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	Red, Yellow, Blue, Black & Grey upto 5 Core & 6 Core & above 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

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TABLE 1 WEIGHT AND DIMENSION DATA

PRODUCT CODE	NUMBER OF CORES No's	NOMINAL THICKNESS OF INSULATION mm	NOMINAL DIMENSION OF ARMOUR ROUND WIRE mm	MINIMUM THICKNESS OF OUTER SHEATH mm	OVERALL DIAMETER mm
IC-CT-02-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	2	0.7	1.4	1.24	11.9
IC-CT-03-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	3	0.7	1.4	1.24	12.4
IC-CT-04-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	4	0.7	1.4	1.24	13.1
IC-CT-05-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	5	0.7	1.4	1.24	13.9
IC-CT-06-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	6	0.7	1.4	1.24	14.7
IC-CT-07-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	7	0.7	1.4	1.24	14.7
IC-CT-08-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	8	0.7	1.4	1.24	16.5
IC-CT-09-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	9	0.7	1.4	1.24	17.5
IC-CT-10-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	10	0.7	1.4	1.24	17.5
IC-CT-12-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	12	0.7	1.4	1.24	18
IC-CT-14-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	14	0.7	1.4	1.4	18.9
IC-CT-16-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	16	0.7	1.6	1.4	20.1
IC-CT-19-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	19	0.7	1.6	1.4	20.9
IC-CT-21-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	21	0.7	1.6	1.4	21.8
IC-CT-24-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	24	0.7	1.6	1.4	23.7
IC-CT-27-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	27	0.7	1.6	1.4	24.1
IC-CT-30-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	30	0.7	1.6	1.4	24.9
IC-CT-33-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	33	0.7	1.6	1.4	25.7
IC-CT-37-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	37	0.7	1.6	1.4	26.5
IC-CT-44-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	44	0.7	1.6	1.56	29.7
IC-CT-52-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	52	0.7	1.6	1.56	30.9
IC-CT-61-00150-CU-2XL-2XWY-1100-IS7098P1-FRLS	61	0.7	2	1.56	33.5

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. 2XWY denotes XLPE insulation, round steel wire armour and PVC sheath; FRLS the flame-retardant low-smoke sheath option. Codes for 2, 3, 4, 9, 21 and 33 cores are pending entry in the Item Master register.

TABLE 2 **ELECTRICAL CHARACTERISTICS**

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
1.5	2	12.1	31	27
1.5	3	12.1	26	23
1.5	4	12.1	26	23
1.5	5	12.1	26	23
1.5	6	12.1	23	20
1.5	7	12.1	20	18
1.5	8	12.1	17	15
1.5	9	12.1	17	15
1.5	10	12.1	17	15
1.5	12	12.1	16	14
1.5	14	12.1	16	14
1.5	16	12.1	14	12
1.5	19	12.1	14	12
1.5	21	12.1	12	11
1.5	24	12.1	12	11
1.5	27	12.1	11	9
1.5	30	12.1	11	9
1.5	33	12.1	11	9
1.5	37	12.1	11	9
1.5	44	12.1	9	8
1.5	52	12.1	9	8
1.5	61	12.1	9	8

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

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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.