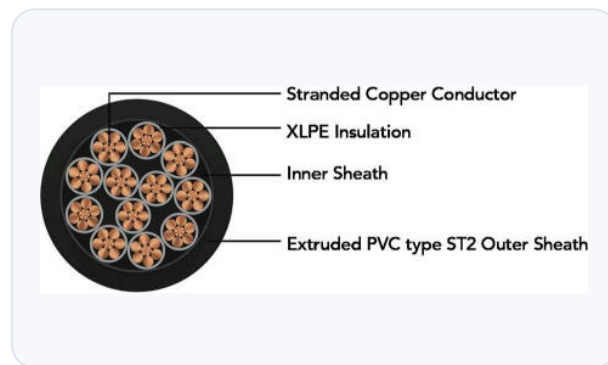


MULTICORE CONTROL CABLE · XLPE · UNARMoured · IEC 60502-1

INDOCABLES LV 1.5 CU IEC 60502-1 0.6/1 KV MC UA CONTROL CABLE, 0.6/1 (1.2) KV AC



Images not to scale. Follow table for dimensions

APPLICATION

INDOCABLES LV 1.5 CU IEC 60502-1 0.6/1 KV MC UA, stranded compacted copper conductor, XLPE insulated, and PVC sheathed unarmoured cable confirming to IEC 60502-1 is suitable for fixed installation such as distribution network or industrial installation. These cables are designed for systems with rated AC voltage 1KV ($U_m=1.2$ KV) & ≤ 1.5 KV (with a maximum 1.8 KV DC) between two live conductor.

CONSTRUCTION

- 01 Conductor:** Circular Compacted or Stranded Copper conductor as per IEC 60228, class 2
- 02 Insulation:** XLPE as per IEC 60502-1
- 03 Inner covering:** Extruded or Lapped PVC
- 04 Outer Sheath:** Extruded Polyvinylchloride (ST2) or Polyethylene (ST7) or Halogen free (ST8) as per IEC 60502-1

CHARACTERISTICS

VOLTAGE RATING	Nominal Voltage: 0.6/1 (1.2) kV
OPERATION TEMPERATURE	Max. operating temperature up to 90°
SHORT CIRCUIT TEMPERATURE	Max. Short Circuit Temperature: 250°C
TEST VOLTAGE	3.5kV AC
CORE IDENTIFICATION	2 Core ●● Red, Black 3 Core ●●● Red, Yellow, Black 4 Core ●●●● Red, Yellow, Blue, Black 5 Core ●●●●● Red, Yellow, Blue, Black, Grey 6 Core & above ● Grey with number printing

BENDING RADIUS

Fixed installation 12 x Overall diameter

OUTSTANDING FEATURES

HIGH LIFE

**HIGH INSULATION
RESISTANCE**

FLAME RETARDANT

LOW SMOKE

UV RESISTANT
STANDARD FOLLOWS

IEC 60228

IEC 60502-1

IEC 60332-1-2

COMPLIANCE

Conductor resistance

Insulation resistance

Shrinkage test

Flame Retardant test

IEC 60228

IEC 60502-1

IEC 60811-503

IEC 60332-1-2

**ACCREDITATIONS
& APPROVAL**


ISI



ISO 9001


 Make in
India

CM/L 6200267409

NOTES The above cable is also available with EPR/HEPR insulation type.



TABLE 1 WEIGHT AND DIMENSION DATA

PRODUCT CODE	NUMBER OF CORES No.	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL INSULATION THICKNESS mm	NOMINAL SHEATH THICKNESS mm	OVERALL DIAMETER (APPROX.) mm	WEIGHT (APPROX.) Kg/Km
IC-CT-02-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	2	1.5	0.70	1.80	11.6	160
IC-CT-03-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	3	1.5	0.70	1.80	12.1	190
IC-CT-04-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	4	1.5	0.70	1.80	12.9	220
IC-CT-05-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	5	1.5	0.70	1.80	13.7	245
IC-CT-06-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	6	1.5	0.70	1.80	14.6	280
IC-CT-07-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	7	1.5	0.70	1.80	14.6	300
IC-CT-08-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	8	1.5	0.70	1.80	15.9	340
IC-CT-09-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	9	1.5	0.70	1.80	17.0	370
IC-CT-10-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	10	1.5	0.70	1.80	17.6	400
IC-CT-12-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	12	1.5	0.70	1.80	18.1	440
IC-CT-14-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	14	1.5	0.70	1.80	18.8	490
IC-CT-16-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	16	1.5	0.70	1.80	19.7	540
IC-CT-19-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	19	1.5	0.70	1.80	20.6	610
IC-CT-21-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	21	1.5	0.70	1.80	21.6	660
IC-CT-24-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	24	1.5	0.70	1.80	23.6	750
IC-CT-27-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	27	1.5	0.70	1.80	24.0	810
IC-CT-30-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	30	1.5	0.70	1.80	24.8	880
IC-CT-33-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	33	1.5	0.70	1.80	25.7	950
IC-CT-37-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	37	1.5	0.70	1.80	26.6	1030
IC-CT-44-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	44	1.5	0.70	1.90	29.8	1220
IC-CT-52-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	52	1.5	0.70	1.90	31.0	1390
IC-CT-61-00150-CU-2XL-2XY-0660-IEC60502P1-FRLS	61	1.5	0.70	2.00	33.4	1640

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 construction and PVC sheath; 0660 the 600/1000 V grade; FRLS the flame-retardant low-smoke sheath option. No IEC 60502-1 item exists in the Item Master register yet: all 22 codes on this sheet are derived from the code structure and are pending entry.



TABLE 2 ELECTRICAL CHARACTERISTICS

Current rating and maximum DC conductor resistance.

NOMINAL CROSS SECTIONAL AREA mm ²	NUMBER OF CORES No.	MAX. DC CONDUCTOR RESISTANCE AT 20°C Ω/km	CURRENT RATING	
			In Ground at 20°C Amp.	In Air at 30°C Amp.
1.5	2	12.1	33.5	30
1.5	3	12.1	28	25
1.5	4	12.1	28	25
1.5	5	12.1	28	25
1.5	6	12.1	25	22
1.5	7	12.1	21.6	20
1.5	8	12.1	18	17
1.5	9	12.1	18	17
1.5	10	12.1	18	17
1.5	12	12.1	17	15
1.5	14	12.1	17	15
1.5	16	12.1	15	13
1.5	19	12.1	15	13
1.5	21	12.1	13	12
1.5	24	12.1	13	12
1.5	27	12.1	12	10
1.5	30	12.1	12	10
1.5	33	12.1	12	10
1.5	37	12.1	12	10
1.5	44	12.1	10	9
1.5	52	12.1	10	9
1.5	61	12.1	10	9

MAXIMUM CONDUCTOR TEMPERATURE 90°C	AMBIENT AIR TEMPERATURE 30°C	GROUND TEMPERATURE 20°C	DEPTH OF LAYING 750 mm	THERMAL RESISTIVITY OF SOIL 1.5 K.m /W
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FLAGGED — the source sheet writes the maximum operating temperature as “up to 90°” with no unit letter; reproduced as written. The reference conditions below give 90°C. Confirm before release. 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. No RoHS or REACH mark is printed — no control-cable source sheet claims either. 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.

TABLE 3 DE-RATING FACTORS

Current rating de-rating factors for other than 30°C ambient air temperature.

AIR TEMPERATURE °C	20	25	35	40	45	50	55	60
DE-RATING FACTOR	1.08	1.04	0.96	0.91	0.87	0.82	0.76	0.71

Current rating de-rating factors for other than 20°C ground temperature.

GROUND TEMPERATURE °C	10	15	25	30	35	40	45	50
DE-RATING FACTOR	1.07	1.04	0.96	0.93	0.89	0.85	0.8	0.76