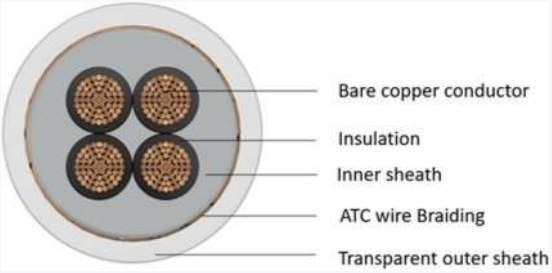
MULTICORE FLEXIBLE SCREENED CONTROL CABLE · CLASS 5 COPPER · PVC INSULATED · GALVANISED STEEL WIRE BRAID · TRANSPARENT PVC SHEATH · BS EN 50525-2-51

INDOCABLES CLASSIC 110 SY SCREENED CONTROL CABLE

300/500 V AC



Images not to scale. Follow table for dimensions

APPLICATION

INDOCABLES CLASSIC 110 SY, fine wire flexible copper conductor, PVC insulated, galvanized steel wire braiding with transparent PVC outer sheath is designed to use for Plant engineering, Industrial machinery, Heat & air-conditioning system. Fixed installation, non-continuously recurring movement without tensile load.

CONSTRUCTION

01 **Conductor:** Fine wire stranded bare copper conductor as per IEC 60228/VDE 0295, class 5

02 **Insulation:** In-house developed special PVC compound

03 **Laid up:** insulated core laid suitably.

04 **Inner Sheath:** PVC inner sheath (Colour: Grey)

05 **Screen:** Galvanised steel wire braiding

06 **Sheath:** In-house developed transparent PVC compound (Colour: Transparent)

CHARACTERISTICS

VOLTAGE RATING	U_0/U: 300/500 V
OPERATION TEMPERATURE	-15°C to + 90° C
CORE IDENTIFICATION	Black with white numbering according to VDE 0293-334
BENDING RADIUS	Occasional flexing 10 x Overall diameter Fixed installation 6 x Overall diameter
TEST VOLTAGE	2 kV (completed cable)

OUTSTANDING FEATURES

FLAME RETARDANT

UV RESISTANT

ELECTROMAGNETIC COMPATIBILITY

STANDARD FOLLOWS

IEC 60228/VDE 0295

BS EN 50525-2-51

IEC 60227-7

COMPLIANCE

Conductor resistance	IEC 60228
Flame retardant	IEC 60332-1-2

ACCREDITATIONS & APPROVAL

ISI · ISO 9001 · Make in India

CM/L 6200267207

TABLE 1 WEIGHT & DIMENSION DATA

PRODUCT CODE	NO. OF CORE AND CROSS SECTION AREA n x mm²	OVERALL DIAMETER (Approx.) mm	WEIGHT (Approx.) Kg/km
0.5 MM² CONDUCTOR			
IC-CT-02-00050-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	2 X 0.5	7.5	91
IC-CT-03-00050-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	3 G 0.5	7.9	102
IC-CT-04-00050-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	4 G 0.5	8.6	119
IC-CT-05-00050-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	5 G 0.5	9.2	128
IC-CT-07-00050-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	7 G 0.5	10	151
IC-CT-10-00050-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	10 G 0.5	10.9	174
IC-CT-12-00050-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	12 G 0.5	11.3	193
IC-CT-14-00050-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	14 G 0.5	12	221
IC-CT-18-00050-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	18 G 0.5	13.3	284
IC-CT-21-00050-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	21 G 0.5	14	316
IC-CT-25-00050-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	25 G 0.5	15.4	368
IC-CT-30-00050-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	30 G 0.5	16.3	416
IC-CT-40-00050-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	40 G 0.5	18.4	532
IC-CT-61-00050-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	61 G 0.5	21.9	751

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PRODUCT CODE	NO. OF CORE AND CROSS SECTION AREA n x mm²	OVERALL DIAMETER (Approx.) mm	WEIGHT (Approx.) Kg/km
0.75 MM² CONDUCTOR			
IC-CT-02-00075-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	2 X 0.75	8	103
IC-CT-03-00075-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	3 G 0.75	8.4	117
IC-CT-04-00075-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	4 G 0.75	9.1	138
IC-CT-05-00075-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	5 G 0.75	9.8	148
IC-CT-07-00075-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	7 G 0.75	10.6	177
IC-CT-09-00075-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	9 G 0.75	13.1	250
IC-CT-12-00075-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	12 G 0.75	12.4	242
IC-CT-15-00075-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	15 G 0.75	13.7	304
IC-CT-18-00075-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	18 G 0.75	14.4	346
IC-CT-25-00075-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	25 G 0.75	16.7	453
IC-CT-34-00075-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	34 G 0.75	19.2	589
IC-CT-50-00075-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	50 G 0.75	22.3	805
1 MM² CONDUCTOR			
IC-CT-02-00100-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	2 X 1	8.4	116
IC-CT-03-00100-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	3 G 1	8.9	133
IC-CT-04-00100-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	4 G 1	9.6	157
IC-CT-05-00100-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	5 G 1	10.4	170
IC-CT-07-00100-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	7 G 1	11.3	205
IC-CT-08-00100-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	8 G 1	12.8	244
IC-CT-09-00100-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	9 G 1	13.9	288
IC-CT-12-00100-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	12 G 1	13.4	300
IC-CT-14-00100-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	14 G 1	14.1	335
IC-CT-18-00100-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	18 G 1	15.5	411
IC-CT-20-00100-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	20 G 1	16.4	449
IC-CT-25-00100-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	25 G 1	18.3	550
IC-CT-34-00100-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	34 G 1	20.8	705
IC-CT-41-00100-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	41 G 1	22.5	825
IC-CT-50-00100-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	50 G 1	24.4	985
1.5 MM² CONDUCTOR			
IC-CT-02-00150-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	2 X 1.5	9.5	148

PRODUCT CODE	NO. OF CORE AND CROSS SECTION AREA n x mm²	OVERALL DIAMETER (Approx.) mm	WEIGHT (Approx.) Kg/km
IC-CT-03-00150-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	3 G 1.5	10	171
IC-CT-04-00150-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	4 G 1.5	10.9	205
IC-CT-05-00150-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	5 G 1.5	12.1	227
IC-CT-07-00150-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	7 G 1.5	13.3	291
IC-CT-08-00150-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	8 G 1.5	14.8	336
IC-CT-12-00150-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	12 G 1.5	15.6	403
IC-CT-14-00150-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	14 G 1.5	16.4	456
IC-CT-18-00150-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	18 G 1.5	18.4	569
IC-CT-25-00150-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	25 G 1.5	21.4	752
IC-CT-32-00150-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	32 G 1.5	23.7	928
IC-CT-50-00150-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	50 G 1.5	28.9	1398
2.5 MM² CONDUCTOR			
IC-CT-03-00250-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	3 G 2.5	11.9	243
IC-CT-04-00250-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	4 G 2.5	13.1	307
IC-CT-05-00250-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	5 G 2.5	14.3	333
IC-CT-07-00250-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	7 G 2.5	15.5	409
IC-CT-12-00250-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	12 G 2.5	18.9	599
IC-CT-18-00250-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	18 G 2.5	22	833
IC-CT-25-00250-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	25 G 2.5	26.1	1159
4 MM² CONDUCTOR			
IC-CT-03-00400-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	3 G 4	13.8	344
IC-CT-04-00400-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	4 G 4	15	416
IC-CT-05-00400-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	5 G 4	16.4	454
IC-CT-07-00400-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	7 G 4	17.8	573
6 MM² CONDUCTOR			
IC-CT-04-00600-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	4 G 6	15	481
IC-CT-05-00600-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	5 G 6	16.4	535
IC-CT-07-00600-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	7 G 6	17.8	683
10 MM² CONDUCTOR			
IC-CT-04-01000-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	4 G 10	20.7	835
IC-CT-05-01000-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	5 G 10	22.6	917

PRODUCT CODE	NO. OF CORE AND CROSS SECTION AREA n x mm²	OVERALL DIAMETER (Approx.) mm	WEIGHT (Approx.) Kg/km
IC-CT-07-01000-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	7 G 10	25.1	1209
16 MM² CONDUCTOR			
IC-CT-04-01600-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	4 G 16	23.6	1153
IC-CT-05-01600-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	5 G 16	26.2	1313
25 MM² CONDUCTOR			
IC-CT-04-02500-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	4 G 25	28.6	1740
IC-CT-05-02500-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	5 G 25	31.7	1936
35 MM² CONDUCTOR			
IC-CT-04-03500-CU-PVC-H05VK-0300-IEC60227P7-FR-OSCR	4 G 35	32.2	2296

Suitable gland and connectors are available for all above sizes.

Product codes follow the Indo Cables product-code structure: IC – LINE – CORES – SIZE – CONDUCTOR – INSULATION – DESIGNATION – VOLTAGE – STANDARD – OPTION. CT denotes the control-cable line, H05VK the multicore PVC flexible class 5 construction at 300/500 V, IEC60227P7 the IEC 60227-7 standard for PVC insulated flexible screened cables, FR the flame-retardant compound and OSCR the overall braid screen. Rows are grouped by conductor size; every value is reproduced from the source sheet. All 75 codes on this sheet are derived from the code structure and are pending entry in the Item Master.

FLAGGED FOR CONFIRMATION

01 No row on this sheet is in the register. The Item Master carries no item at all on IEC60227P7, although the STANDARD block on tab 5 REF TABLES does hold that value. All 75 codes are derived from the code structure and need typed rows before these items go ACTIVE.

02 Eleven of the 22 core counts on this sheet are absent from the CORES block on tab 5: 9, 15, 18, 20, 21, 25, 32, 34, 40, 41 and 50. They must be typed into that block before the workbook can build these codes.

03 The closest register family is unscreened. The Item Master holds 219 PVC / H05VK / 300–500 V class 5 items — all on line FX, standard IS694, licence CM/L 6200267207, options NONE, FR or FRLS — and 40 of this sheet's 75 core-and-size combinations match one of the FR rows exactly, reading IC-FX-nn-nnnnn-CU-PVC-H05VK-0300-IS694-FR. None of them carries a screen. This sheet follows sheet CC-15, which carries line CT and IEC60227P7. Confirm which family the CLASSIC sheets should use.

04 Every old code on this sheet ends IS694 — IS 694, the Indian standard for PVC insulated cables and cords — while the sheet's own Standard-follows block lists IEC 60228/VDE 0295, BS EN 50525-2-51 and IEC 60227-7, no Indian Standard. The derived codes carry IEC60227P7. Confirm which standard governs the item.

05 The STANDARD block holds no value for BS EN 50525-2-51, so the sheet's harmonised standard cannot be carried in a code. The code structure also allows only two options, and both are used here: FR carries the flame-retardant compliance line (IEC 60332-1-2) and OSCR the braid screen. The ozone-resistant, UV-resistant and EMC claims are therefore not carried anywhere in the code, although the OPTION block does hold a UV value.

06 The structure cannot distinguish this galvanised steel braid (SY) from the tinned copper braid on sheets CC-23 and CC-05 (CY) — both carry the braid as the OSCR overall-screen option. Add a braid-material segment or separate CY / SY designations.

07 The cross-section drawing does not match the product. Its callout reads ATC wire Braiding — annealed tinned copper — while this sheet is the SY variant, galvanised steel wire braiding, in both the Application paragraph and Construction item 05. The drawing is reproduced as supplied; a corrected SY render is needed.

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08 The source runs construction items together on single lines: `Insulation: In-house developed special PVC compound Laid up: insulated core laid suitably.` and `Inner Sheath: PVC inner sheath (Colour: Grey) Screen: Galvanised steel wire braiding`. They are shown here as items 02–05, with the wording unchanged.

09 Operation temperature reads `-15°C to + 90° C` in the source, with the degree sign detached from the upper value. Reproduced as written.

10 The source carries no current-carrying capacity, conductor resistance or de-rating table. This sheet therefore ends at dimensional data; the electrical tables are needed to complete it.

11 The source sheet's Our Accreditations area carried a NABL laboratory mark. It has been removed and replaced with the ISI mark and the ISO 9001 badge, both printed on every sheet. No Indian Standard governs this product, so no BIS licence covers it: the licence line shows `CM/L 6200267207`, the licence carried on the IS 694 flexible family, and it does not certify this product against IEC 60227-7. Confirm the correct licence, or hide the line from Tweaks.

12 The supplied icon set has no ozone-resistance icon. The Ozone resistant tile is a labelled placeholder at icon size, awaiting an illustrated icon in the house style.

13 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.