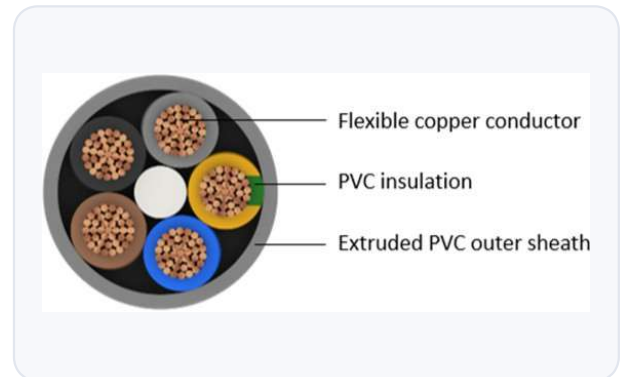


MULTICORE FLEXIBLE CABLE · CLASS 5 COPPER · PVC INSULATED · UNSCREENED · GREY PVC SHEATH · IEC 60227-7

INDOCABLES CLASSIC 100 CONTROL CABLE

450/750 V AC



Images not to scale. Follow table for dimensions

APPLICATION

INDOCABLES CLASSIC 100, fine wire flexible copper conductor, PVC insulated and sheathed cable is designed to use in Industrial application such as plant engineering, industrial machinery, power station and also suitable to use in dry or damp area with medium mechanical loads & in wind turbine generator.

CONSTRUCTION

- 01 **Conductor:** Class 5 Bare Copper conductor according to IEC 60228/VDE 0295
- 02 **Insulation:** Inhouse developed PVC compound
- 03 **Laid up:** Cores laid up
- 04 **Sheath:** Inhouse developed PVC compound. Colour: Gray

CHARACTERISTICS

VOLTAGE RATING	U_0/U : 450/750 V
OPERATION TEMPERATURE	-15°C to +70° C
CORE IDENTIFICATION	Upto 5 core colour code is according to VDE 0293-308 From 6 core colour code is according to annexure 1
BENDING RADIUS	Fixed installation 6 X D Occasional flexing 10 X D
TEST VOLTAGE	Voltage test on complete cable at 2000 V

OUTSTANDING FEATURES


FLAME RETARDANT

UV RESISTANT

MOISTURE RESISTANT

STANDARD FOLLOWS

IEC 60228/VDE 0295

IEC 60227-7

BS EN 50525 (Part 2-51) 2011

BS EN 50525 (Part 2-31) 2011

COMPLIANCE

Conductor resistance IEC 60228

Flame retardant IEC 60332-1-2

ACCREDITATIONS & APPROVAL



ISI



ISO 9001



Make in India

CM/L 6200267207

TABLE 1 **DIMENSIONAL CHARACTERISTICS**

PRODUCT CODE	NO. OF CORES X AREA No. x sq.mm.	NOMINAL OVERALL DIAMETER Approx. mm	WEIGHT Kg/km
2.5 MM² CONDUCTOR			
IC-CT-02-00250-CU-PVC-H07VK-0450-IEC60227P7-FR	2 X 2.5	9.1	140.4
IC-CT-03-00250-CU-PVC-H07VK-0450-IEC60227P7-FR	3 G 2.5	9.7	168.6
IC-CT-03-00250-CU-PVC-H07VK-0450-IEC60227P7-FR	3 X 2.5	9.7	168.6
IC-CT-04-00250-CU-PVC-H07VK-0450-IEC60227P7-FR	4 G 2.5	10.8	213.6
IC-CT-05-00250-CU-PVC-H07VK-0450-IEC60227P7-FR	5 G 2.5	12.1	234.9
IC-CT-07-00250-CU-PVC-H07VK-0450-IEC60227P7-FR	7 G 2.5	13.4	303.7
IC-CT-08-00250-CU-PVC-H07VK-0450-IEC60227P7-FR	8 G 2.5	15.2	354.5
4.0 MM² CONDUCTOR			
IC-CT-02-00400-CU-PVC-H07VK-0450-IEC60227P7-FR	2 X 4.0	10.1	184.7
IC-CT-03-00400-CU-PVC-H07VK-0450-IEC60227P7-FR	3 G 4.0	11	231.7
IC-CT-04-00400-CU-PVC-H07VK-0450-IEC60227P7-FR	4 G 4.0	12.2	294
IC-CT-05-00400-CU-PVC-H07VK-0450-IEC60227P7-FR	5 G 4.0	13.7	324.5
IC-CT-07-00400-CU-PVC-H07VK-0450-IEC60227P7-FR	7 G 4.0	15.1	422.1



PRODUCT CODE	NO. OF CORES X AREA No. x sq.mm.	NOMINAL OVERALL DIAMETER Approx. mm	WEIGHT Kg/km
6.0 MM² CONDUCTOR			
IC-CT-03-00600-CU-PVC-H07VK-0450-IEC60227P7-FR	3 G 6.0	12.4	311.6
IC-CT-04-00600-CU-PVC-H07VK-0450-IEC60227P7-FR	4 G 6.0	13.8	395.8
IC-CT-05-00600-CU-PVC-H07VK-0450-IEC60227P7-FR	5 G 6.0	15.4	438.4
IC-CT-07-00600-CU-PVC-H07VK-0450-IEC60227P7-FR	7 G 6.0	16.9	572.9
10 MM² CONDUCTOR			
IC-CT-03-01000-CU-PVC-H07VK-0450-IEC60227P7-FR	3 G 10.0	15.2	503.7
IC-CT-04-01000-CU-PVC-H07VK-0450-IEC60227P7-FR	4 G 10.0	16.9	640.5
IC-CT-05-01000-CU-PVC-H07VK-0450-IEC60227P7-FR	5 G 10.0	19	721.1
IC-CT-07-01000-CU-PVC-H07VK-0450-IEC60227P7-FR	7 G 10.0	21	944.9
16 MM² CONDUCTOR			
IC-CT-03-01600-CU-PVC-H07VK-0450-IEC60227P7-FR	3 G 16.0	17.7	725
IC-CT-04-01600-CU-PVC-H07VK-0450-IEC60227P7-FR	4 G 16.0	19.6	923.3
IC-CT-05-01600-CU-PVC-H07VK-0450-IEC60227P7-FR	5 G 16.0	22	1041.8
25 MM² CONDUCTOR			
IC-CT-03-02500-CU-PVC-H07VK-0450-IEC60227P7-FR	3 G 25.0	21.5	1097.3
IC-CT-04-02500-CU-PVC-H07VK-0450-IEC60227P7-FR	4 G 25.0	24	1411.7
IC-CT-05-02500-CU-PVC-H07VK-0450-IEC60227P7-FR	5 G 25.0	26.8	1587.3
35 MM² CONDUCTOR			
IC-CT-03-03500-CU-PVC-H07VK-0450-IEC60227P7-FR	3 G 35.0	24.2	1478.7
IC-CT-04-03500-CU-PVC-H07VK-0450-IEC60227P7-FR	4 G 35.0	27.1	1903
IC-CT-05-03500-CU-PVC-H07VK-0450-IEC60227P7-FR	5 G 35.0	30.2	2147.2
50 MM² CONDUCTOR			
IC-CT-03-05000-CU-PVC-H07VK-0450-IEC60227P7-FR	3 G 50.0	28.7	2095.2
IC-CT-04-05000-CU-PVC-H07VK-0450-IEC60227P7-FR	4 G 50.0	32.2	2709.9
IC-CT-05-05000-CU-PVC-H07VK-0450-IEC60227P7-FR	5 G 50.0	35.8	3051.2
70 MM² CONDUCTOR			
IC-CT-03-07000-CU-PVC-H07VK-0450-IEC60227P7-FR	3 G 70.0	33	2870.4
IC-CT-04-07000-CU-PVC-H07VK-0450-IEC60227P7-FR	4 G 70.0	37	3708.4
IC-CT-05-07000-CU-PVC-H07VK-0450-IEC60227P7-FR	5 G 70.0	41.3	4203.8



PRODUCT CODE	NO. OF CORES X AREA No. x sq.mm.	NOMINAL OVERALL DIAMETER Approx. mm	WEIGHT Kg/km
95 MM² CONDUCTOR			
IC-CT-03-09500-CU-PVC-H07VK-0450-IEC60227P7-FR	3 G 95.0	38.2	3796.7
IC-CT-04-09500-CU-PVC-H07VK-0450-IEC60227P7-FR	4 G 95.0	42.6	4892.8
IC-CT-05-09500-CU-PVC-H07VK-0450-IEC60227P7-FR	5 G 95.0	47.5	5527.1
120 MM² CONDUCTOR			
IC-CT-03-12000-CU-PVC-H07VK-0450-IEC60227P7-FR	3 G 120.0	41.6	4695.6
IC-CT-04-12000-CU-PVC-H07VK-0450-IEC60227P7-FR	4 G 120.0	46.6	6080
150 MM² CONDUCTOR			
IC-CT-04-15000-CU-PVC-H07VK-0450-IEC60227P7-FR	4 G 150.0	51.7	7558.3
185 MM² CONDUCTOR			
IC-CT-04-18500-CU-PVC-H07VK-0450-IEC60227P7-FR	4 G 185.0	57.4	9216.1

Above values are approximate and subject to standard manufacturing tolerance

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, H07VK the PVC flexible class 5 construction at 450/750 V, 0450 the 450/750 V grade, IEC60227P7 the IEC 60227-7 standard and FR the flame-retardant compound. This cable is unscreened, so no screen option is carried. Rows are grouped by conductor size; every value is reproduced from the source sheet. The 42 rows resolve to 41 distinct codes, all derived from the code structure and pending entry in the Item Master.

FLAGGED FOR CONFIRMATION

- 01 No row on this sheet is in the register. The Item Master holds 672 control-cable items, every one of them at 1100 V on IS 7098 Part 1, IS 1554 Part 1 or IS 17505 Part 1 — none at the 450/750 V grade, and no item anywhere in the register on IEC 60227-7. All 41 codes are derived from the code structure and need typed rows before these items go ACTIVE.
- 02 Every old code on the source sheet ends IS694 — for example CTC02C2.5PCPVFRIS694 — while the Standard-follows block lists IEC 60228/VDE 0295, IEC 60227-7, BS EN 50525 (Part 2-51) 2011 and BS EN 50525 (Part 2-31) 2011, and not IS 694. The code carries one standard. These codes carry IEC60227P7, the register's value for IEC 60227-7 and the value used on sheets CC-05, CC-07, CC-15 and CC-17. Confirm which standard governs this item; the STANDARD block on tab 5 REF TABLES has no value for BS EN 50525-2-51 or 2-31.
- 03 Two rows on the source sheet differ only in the earth-core letter: 3 G 2.5 and 3 X 2.5, both 9.7 mm and 168.6 kg/km, and both printed against the same old code CTC03C2.5PCPVFRIS694. The code structure has no segment for the earth core, so both rows resolve to the same new code — 42 rows, 41 distinct codes. Confirm whether the 3 X row is a separate item, and add an earth-core segment to tab 5 if it is.
- 04 The DESIGNATION block holds no multicore 450/750 V flexible value. H07VK is defined as a single-core PVC flexible class 5 cable at 450/750 V and is used on 72 house-wire rows, all single core; H05VK is the multicore class 5 value but fixed at 300/500 V. H07VK is used here because the voltage grade matches the sheet. Add a multicore 450/750 V designation to tab 5.
- 05 Sheath colour reads Gray on this sheet and Grey on the screened sheets CC-15 and CC-17. Reproduced as written on each sheet; confirm one spelling for the range.
- 06 One option slot is used: FR carries the flame-retardant compliance line (IEC 60332-1-2). The sheet's UV-resistant and moisture-resistant claims are not carried anywhere in the code.



- 07 Core identification refers to annexure 1 for 6 cores and above, and the sheet lists 7-core and 8-core sizes. No annexure is attached to the source sheet, so the colour code for those sizes is missing.
- 08 Operation temperature reads -15°C to $+70^{\circ}\text{C}$ in the source, with the degree sign detached from the upper value. Reproduced as written.
- 09 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.
- 10 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 sheet CC-07, and it does not certify this product against IEC 60227-7. Confirm the correct licence, or hide the line from Tweaks.
- 11 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.