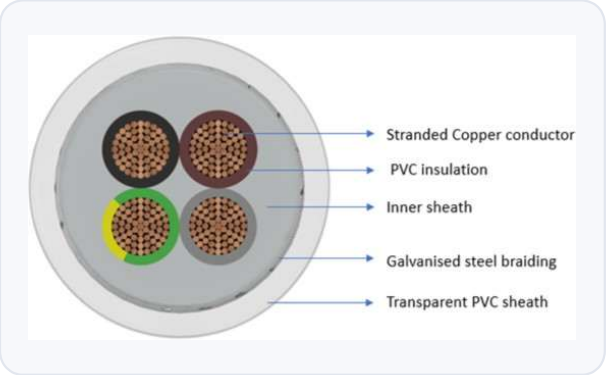
MULTICORE FLEXIBLE SCREENED CABLE · CLASS 5 COPPER · PVC INSULATED · GALVANIZED STEEL BRAID · TRANSPARENT PVC SHEATH · IEC 60227-7

INDOCABLES CLASSIC 100 SY INDUSTRIAL CABLE

450/750 V AC



Images not to scale. Follow table for dimensions

APPLICATION

INDOCABLES CLASSIC 100 SY, fine wire flexible copper conductor, PVC insulated and sheathed screened cable is designed to use in Industrial application such as plant engineering, industrial machinery, heating and air conditioning system, conveyor and transport system, servo drives and also in EMC sensitive environment.

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 **Inner sheath:** Inhouse developed PVC inner sheath. Colour: Grey

05 **Braiding:** Galvanized Steel braiding

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 annexture 1
BENDING RADIUS	Fixed installation 6 X D Occasional flexing 10 X D
TEST VOLTAGE	Voltage test on complete cable at 3500 V

Parth Chhaperia +918073533289 **Aryan Chhaperia** +918088107850 **Neelmani Chaudhary** +91 7011005815
www.indocables.com / www.indocables.in
sales@indocables.com / cables@micagroup.net

06 **Sheath:** Inhouse developed PVC compound.
Colour: Transparent

OUTSTANDING FEATURES

- FLAME RETARDANT
- UV RESISTANT
- MOISTURE RESISTANT
- LOW TRANSFER IMPEDANCE

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

Parth Chhaperia +918073533289 **Aryan Chhaperia** +918088107850 **Neelmani Chaudhary** +91 7011005815
www.indocables.com / www.indocables.in
sales@indocables.com / cables@micagroup.net

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-OSCR	2 X 2.5	11.3	200.2
IC-CT-03-00250-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	3 G 2.5	11.9	232.0
IC-CT-04-00250-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	4 G 2.5	13.4	300.9
IC-CT-05-00250-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	5 G 2.5	14.6	328.3
IC-CT-07-00250-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	7 G 2.5	15.9	404.9
4.0 MM² CONDUCTOR			
IC-CT-02-00400-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	2 X 4.0	12.4	254.1
IC-CT-04-00400-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	4 G 4.0	14.8	389.5
IC-CT-05-00400-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	5 G 4.0	16.2	428.8
6.0 MM² CONDUCTOR			
IC-CT-03-00600-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	3 G 6.0	15	408.8
IC-CT-04-00600-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	4 G 6.0	16.4	501.8
IC-CT-05-00600-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	5 G 6.0	17.9	552.3
10.0 MM² CONDUCTOR			
IC-CT-04-01000-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	4 G 10.0	19.7	775.9
IC-CT-05-01000-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	5 G 10.0	21.5	857.0
16.0 MM² CONDUCTOR			
IC-CT-04-01600-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	4 G 16.0	22.5	1074.9
IC-CT-05-01600-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	5 G 16.0	24.9	1228.6
25.0 MM² CONDUCTOR			
IC-CT-04-02500-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	4 G 25.0	27.2	1625.4
IC-CT-05-02500-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	5 G 25.0	30	1819.9
35.0 MM² CONDUCTOR			
IC-CT-04-03500-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	4 G 35.0	30.5	2153.0
IC-CT-05-03500-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	5 G 35.0	33.5	2420.3
50.0 MM² CONDUCTOR			
IC-CT-04-05000-CU-PVC-H07VK-0450-IEC60227P7-FR-OSCR	4 G 50.0	35.6	2991.9

Above values are approximate and subject to standard manufacturing tolerance

Parth Chhaperia +918073533289 **Aryan Chhaperia** +918088107850 **Neelmani Chaudhary** +91 7011005815
www.indocables.com / www.indocables.in
sales@indocables.com / cables@micagroup.net

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, 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 20 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 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 20 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 `CTC02C02.5PCGSFRIS694` — 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 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.

04 The structure cannot distinguish this galvanized steel braid (SY) from the tinned-copper braid on sheet CC-17 (CY) — both carry the braid as the `OSCR` overall-screen option at the same 450/750 V grade on the same standard. Seventeen of the twenty codes on this sheet are therefore character-for-character identical to codes on CC-17 — every core-and-size row the two sheets share, from 3 G 2.5 to 4 G 50.0. Add a braid-material segment or separate SY / CY designations before either sheet is used to order.

05 The structure allows two options and both are used: FR carries the flame-retardant compliance line (IEC 60332-1-2) and `OSCR` the braid screen. The sheet's UV-resistant, moisture-resistant and low-transfer-impedance claims are therefore not carried anywhere in the code.

06 Core identification refers to `annexture 1` for 6 cores and above, and the sheet lists a 7-core size. No annexure is attached to the source sheet, so the colour code for that size is missing.

07 Operation temperature reads `-15°C to +70° C` in the source, with the degree sign detached from the upper value. Two overall diameters are printed without a decimal — `15` for 3 G 6.0 and `30` for 5 G 25.0, where every other row carries one decimal place. Both reproduced as written.

08 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.

09 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.

10 The supplied icon set has no low-transfer-impedance icon. The EMI-shielding icon from the set is used for that tile; commission a matching illustrated icon if a dedicated one is wanted.

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.