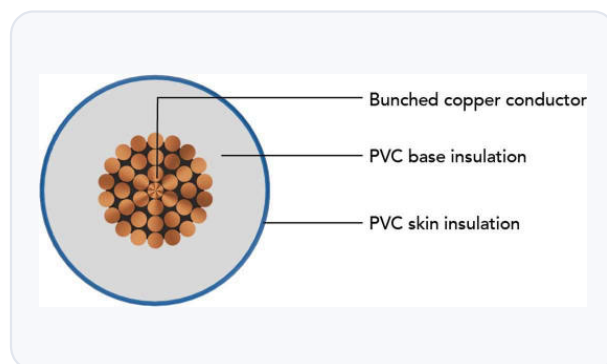


SINGLE CORE · NON-SHEATHED · THERMOPLASTIC INSULATED · CLASS 5 COPPER · BS 6231

INDOCABLES TYPE CK BS 6231, SWITCH GEAR AND CONTROL GEAR WIRING CABLE, 600/1000 V AC



Images not to scale. Follow table for dimensions

APPLICATION

INDOCABLES Type CK BS 6231 single core non-sheathed thermoplastic insulated cable is suitable for wiring of switch, control metering, relay & instrument panels of power switchgear and for such purpose as internal connections in rectifier equipment and its motor starters and controllers.

CONSTRUCTION

- 01 **Conductor:** Plain annealed copper conductor as per BS EN/IEC 60228, class 5
- 02 **Insulation:** Insulated with Polyvinyl Chloride Type TI 3 to EN 50363-3

CORE IDENTIFICATION

- Black ● Blue ● Brown ● Grey ● Orange
- Pink ● Red ● Turquoise ● Violet ● White
- Green ● Yellow

CHARACTERISTICS

VOLTAGE RATING	600/1000 V
OPERATION TEMPERATURE	Fixed: -15°C to 90° C
BENDING RADIUS	Fixed installation - 8 x Overall Diameter
TEST VOLTAGE	3500V AC at (20±5) °C

STANDARD FOLLOWS

BS EN/IEC 60228	BS EN 50363-3
BS 6231	IEC 60332-1-2

OUTSTANDING FEATURES


FLAME PROPAGATION

FLEXIBLE

HIGH INSULATION RESISTANCE

COMPLIANCE

Conductor resistance test	BS EN/IEC 60228
Insulation resistance	BS 6231
Flammability test	BS EN/IEC 60332-1-2

ACCREDITATIONS & APPROVAL



ISI



ISO 9001



Make in India

CM/L 6200267409

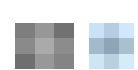


TABLE 1 WEIGHT & DIMENSION DATA

PRODUCT CODE	NOMINAL CROSS SECTIONAL AREA mm ²	INSULATION THICKNESS mm	OVERALL DIAMETER (APPROX.) mm	WEIGHT (APPROX.) kg/km
IC-CT-01-00050-CU-PVC-CK-0660-BS6231	0.5	0.8	2.63	11
IC-CT-01-00075-CU-PVC-CK-0660-BS6231	0.75	0.8	2.8	14
IC-CT-01-00100-CU-PVC-CK-0660-BS6231	1	0.8	2.97	18
IC-CT-01-00150-CU-PVC-CK-0660-BS6231	1.5	0.8	3.27	23
IC-CT-01-00250-CU-PVC-CK-0660-BS6231	2.5	0.8	3.7	33
IC-CT-01-00400-CU-PVC-CK-0660-BS6231	4	0.8	4.3	50
IC-CT-01-00600-CU-PVC-CK-0660-BS6231	6	0.8	4.8	69
IC-CT-01-01000-CU-PVC-CK-0660-BS6231	10	1	6.33	117
IC-CT-01-01600-CU-PVC-CK-0660-BS6231	16	1	7.6	174
IC-CT-01-02500-CU-PVC-CK-0660-BS6231	25	1.2	9.57	269
IC-CT-01-03500-CU-PVC-CK-0660-BS6231	35	1.2	10.73	368
IC-CT-01-05000-CU-PVC-CK-0660-BS6231	50	1.4	12.93	525
IC-CT-01-07000-CU-PVC-CK-0660-BS6231	70	1.4	14.77	720
IC-CT-01-09500-CU-PVC-CK-0660-BS6231	95	1.6	16.67	973
IC-CT-01-12000-CU-PVC-CK-0660-BS6231	120	1.6	18.4	1212
IC-CT-01-15000-CU-PVC-CK-0660-BS6231	150	1.8	20.57	1491
IC-CT-01-18500-CU-PVC-CK-0660-BS6231	185	2	22.67	1872
IC-CT-01-24000-CU-PVC-CK-0660-BS6231	240	2.2	25.53	2394

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. CT denotes the control-cable line, 01 a single core, PVC the thermoplastic insulation, CK the BS 6231 Type CK designation and 0660 the 600/1000 V grade. The Item Master register holds no BS 6231 item: all 18 codes on this sheet are derived from the code structure and are pending entry, and the designation CK and the standard BS6231 both need adding to the reference tables on tab 5.

TABLE 2 ELECTRICAL CHARACTERISTICS

Current carrying capacity and maximum DC conductor resistance.



NOMINAL CROSS SECTIONAL AREA mm ²	REFERENCE METHOD A enclosed in conduit in thermally insulating wall etc.		REFERENCE METHOD B enclosed in conduit on a wall or in trunking etc.		REFERENCE METHOD C clipped direct · spaced by one cable diameter		REFERENCE METHOD G in free air · spaced by one cable diameter		MAXIMUM DC CONDUCTOR RESISTANCE AT 20°C Ω/km
	2 cables, single- phase a.c. or d.c.	3 or 4 cables, three-phase a.c.	2 cables, single- phase a.c. or d.c.	3 or 4 cables, three-phase a.c.	2 cables, single- phase a.c. or d.c. flat and touching	3 or 4 cables, three-phase a.c. flat and touching or trefoil	2 cables, single- phase a.c. or d.c. or 3 cables three-phase a.c. flat — horizontal	Vertical	
	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	
1	13	12	16	14	18	17	—	—	19.5
1.5	18	16	22	19	24	22	—	—	13.3
2.5	25	22	29	27	32	29	—	—	7.98
4	33	29	40	35	44	39	—	—	4.95
6	43	38	51	46	56	51	—	—	3.3
10	58	51	71	63	77	70	—	—	1.91
16	77	69	95	84	104	94	—	—	1.21
25	103	92	129	113	139	126	177	156	0.78
35	127	113	159	140	171	156	219	195	0.554
50	153	137	192	170	221	203	267	239	0.386
70	194	174	245	215	284	260	342	308	0.272
95	234	210	297	261	344	316	417	377	0.206
120	270	242	343	303	401	368	485	440	0.161
150	308	276	381	332	462	423	560	511	0.129
185	351	314	436	372	529	485	641	587	0.106
240	411	369	512	437	625	572	758	697	0.0801

AMBIENT TEMPERATURE
30°C

CONDUCTOR OPERATING
TEMPERATURE
90°C

REFERENCE
Table 4E1A of BS 7671:2018

TABLE 3 DE-RATING FACTOR

De-rating factor for 90°C thermoplastic or thermosetting insulated cable

AIR TEMPERATURE	35°C to 45 °C	50°C	55°C	60°C	65°C
DE-RATING FACTOR	1	0.96	0.83	0.67	0.47

FLAGGED FOR CONFIRMATION

- 01 Nothing on this sheet is in the register. The Item Master carries no item on BS6231, and the designation CK is not in the DESIGNATION block on tab 5 REF TABLES. All 18 codes are built from the code structure and need Item Master rows.

- 02 The source sheet gives one code, CTC1C001PCPVFPBS6231, on three different rows — 1, 1.5 and 2.5 mm². Each size carries its own derived code here; the collision is reported, not carried over. The 0.5 and 0.75 mm² rows also break the source's own padding rule by holding a decimal point.
- 03 Table 1 lists 0.5 and 0.75 mm² but Table 2 gives no current rating and no DC resistance for either size.
- 04 Reference method G is blank — shown as – — for every size from 1 to 16 mm². Reproduced as written.
- 05 The insulation is thermoplastic PVC Type TI 3, while Table 2 cites Table 4E1A of BS 7671:2018, the 90°C thermosetting table. The de-rating table names both materials. Reproduced as written.
- 06 Operation temperature reads Fixed: -15°C to 90° C in the source, with the degree sign detached from the second value. Standard follows lists the flammability standard as IEC 60332-1-2 while Compliance lists it as BS EN/IEC 60332-1-2.
- 07 BS 6231 is not an Indian Standard, so no BIS licence covers this product. The ISI mark is printed as instructed and the licence line shows CM/L 6200267409, the company number carried on the sheet series. Confirm the correct licence, or hide the line from Tweaks.
- 08 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.