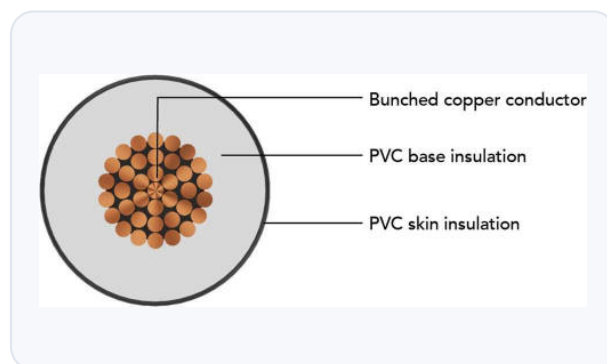


SINGLE CORE · NON-SHEATHED · THERMOPLASTIC INSULATED · CLASS 5 COPPER · BS 6231

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



Images not to scale. Follow table for dimensions

APPLICATION

INDOCABLES Type BK 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 1 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 70° C
BENDING RADIUS	Fixed installation – 8 x Overall Diameter
TEST VOLTAGE	3500V AC at (20±5) °C

STANDARD FOLLOWS

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

OUTSTANDING FEATURES


FLEXIBLE

HIGH INSULATION RESISTANCE

FLAME PROPAGATION

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-BK-0660-BS6231	0.5	0.8	2.63	11
IC-CT-01-00075-CU-PVC-BK-0660-BS6231	0.75	0.8	2.8	14
IC-CT-01-00100-CU-PVC-BK-0660-BS6231	1	0.8	2.97	18
IC-CT-01-00150-CU-PVC-BK-0660-BS6231	1.5	0.8	3.27	23
IC-CT-01-00250-CU-PVC-BK-0660-BS6231	2.5	0.8	3.7	33
IC-CT-01-00400-CU-PVC-BK-0660-BS6231	4	0.8	4.3	50
IC-CT-01-00600-CU-PVC-BK-0660-BS6231	6	0.8	4.8	69
IC-CT-01-01000-CU-PVC-BK-0660-BS6231	10	1	6.33	117
IC-CT-01-01600-CU-PVC-BK-0660-BS6231	16	1	7.6	174
IC-CT-01-02500-CU-PVC-BK-0660-BS6231	25	1.2	9.57	269
IC-CT-01-03500-CU-PVC-BK-0660-BS6231	35	1.2	10.73	368
IC-CT-01-05000-CU-PVC-BK-0660-BS6231	50	1.4	12.93	525
IC-CT-01-07000-CU-PVC-BK-0660-BS6231	70	1.4	14.77	721
IC-CT-01-09500-CU-PVC-BK-0660-BS6231	95	1.6	16.67	974
IC-CT-01-12000-CU-PVC-BK-0660-BS6231	120	1.6	18.4	1213
IC-CT-01-15000-CU-PVC-BK-0660-BS6231	150	1.8	20.57	1492
IC-CT-01-18500-CU-PVC-BK-0660-BS6231	185	2	22.67	1873
IC-CT-01-24000-CU-PVC-BK-0660-BS6231	240	2.2	25.53	2396

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, BK the BS 6231 Type BK 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 BK 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		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	
	Amp .	Amp .	Amp .	Amp .	Amp .	Amp .	
1	10.5	10	13	11	15	13	19.5
1.5	14	13	17	15	19	17	13.3
2.5	19	17	23	20	26	24	7.98
4	25	23	30	27	35	31	4.95
6	32	29	39	34	45	41	3.3
10	44	40	54	48	62	56	1.91
16	58	56	72	65	83	75	1.21
25	78	71	98	86	111	101	0.78
35	96	86	121	107	137	125	0.554
50	115	105	146	130	177	162	0.386
70	146	132	186	166	227	208	0.272
95	177	159	225	201	275	253	0.206
120	204	182	261	232	320	294	0.161
150	233	210	291	254	370	339	0.129
185	265	238	331	287	423	388	0.106
240	311	277	388	336	500	458	0.0801

AMBIENT TEMPERATURE
30°C

CONDUCTOR OPERATING
TEMPERATURE
70°C

REFERENCE
Table 4D1A of BS 7671:2018

TABLE 3 DE-RATING FACTOR

De-rating factor for 70°C thermoplastic insulated cable

AIR TEMPERATURE	35°C	40°C	45°C	50°C	55°C
DE-RATING FACTOR	0.91	0.82	0.71	0.58	0.41

FLAGGED — reproduced as written from the source sheet, confirm before release: Table 1 lists 0.5 and 0.75 mm² but Table 2 gives no current rating or DC resistance for either size; the Operation temperature cell reads “-15°C to 70° C” with the degree sign detached from the second value; the 16 mm² row of Table 2 gives 58 / 56 A under Reference Method A, a ratio that breaks the pattern of every neighbouring row (10 mm² 44 / 40, 25 mm² 78 / 71); Standard follows lists the flammability standard as “IEC 60332-1-2” while



Compliance lists it as "BS EN/IEC 60332-1-2"; and BS 6231 is not an Indian Standard, so the ISI mark and CM/L number shown are the company's BIS licence and do not certify this product against BS 6231. 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.