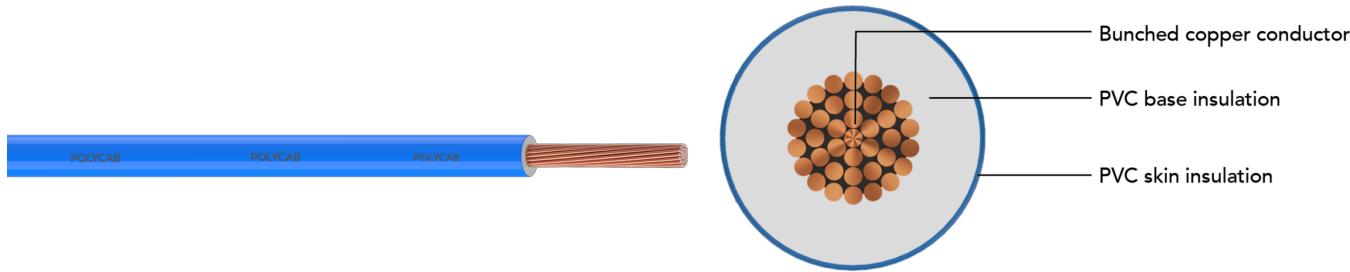


# POLYCAT Type CK BS 6231

## Switch gear and Control gear wiring Cable, 600/1000 V AC

**POLYCAT**  
IDEAS. CONNECTED.



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAT 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.

### CHARACTERISTICS

#### Voltage Rating

600/1000 V

#### Operation Temperature

Fixed: -15°C to 90° C

#### Bending Radius

Fixed installation - 8 x Overall Diameter

### CONSTRUCTION

- Plain annealed copper conductor as per BS EN/IEC 60228, class 5
- 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

#### Test Voltage

3500V AC at (20±5) °C

### OUTSTANDING FEATURES

- Flame propagation
- Flexible
- High insulation resistance
- Panel wiring
- Smooth and Glossy finish

### STANDARD FOLLOWS

BS EN/IEC 60228

BS EN 50363-3

BS 6231

IEC 60332-1-2

### COMPLIANCE

Conductor resistance test BS EN/IEC 60228

Insulation resistance BS 6231

Flammability test BS EN/IEC 60332-1-2

### OUR ACCREDITATIONS



### APPROVAL



**POLY CAB Type CK BS 6231**  
**Switch gear and Control gear wiring Cable, 600/1000 V AC**

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**WEIGHT & DIMENSION DATA :**

Product Code	Nominal cross sectional area mm <sup>2</sup>	Insulation thickness mm	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km
LDBS07CYUAYC001C0.5S	0.5	0.8	2.63	11
LDBS07CYUAYC001C.75S	0.75	0.8	2.8	14
LDBS07CYUAYC001C001S	1	0.8	2.97	18
LDBS07CYUAYC001C1.5S	1.5	0.8	3.27	23
LDBS07CYUAYC001C2.5S	2.5	0.8	3.7	33
LDBS07CYUAYC001C004S	4	0.8	4.3	50
LDBS07CYUAYC001C006S	6	0.8	4.8	69
LDBS07CYUAYC001C010S	10	1	6.33	117
LDBS07CYUAYC001C016S	16	1	7.6	174
LDBS07CYUAYC001C025S	25	1.2	9.57	269
LDBS07CYUAYC001C035S	35	1.2	10.73	368
LDBS07CYUAYC001C050S	50	1.4	12.93	525
LDBS07CYUAYC001C070S	70	1.4	14.77	720
LDBS07CYUAYC001C095S	95	1.6	16.67	973
LDBS07CYUAYC001C120S	120	1.6	18.4	1212
LDBS07CYUAYC001C150S	150	1.8	20.57	1491
LDBS07CYUAYC001C185S	185	2	22.67	1872
LDBS07CYUAYC001C240S	240	2.2	25.53	2394

# POLYCAT Type CK BS 6231

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### Electrical characteristics

Current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area  mm <sup>2</sup>	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)		Reference Method G (in free air)		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.	Spaced by one cable diameter	3 or 4 cables, three-phase a.c. flat and touching or trefoil	Spaced by one cable diameter	2 cables, single-phase a.c. or d.c. or 3 cables three-phase a.c. flat	Horizontal	Vertical	
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

The ambient temperature is 30°C,

Conductor operating temperature 90°C.

The above table is in accordance with Table 4E1A of BS 7671:2018

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**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