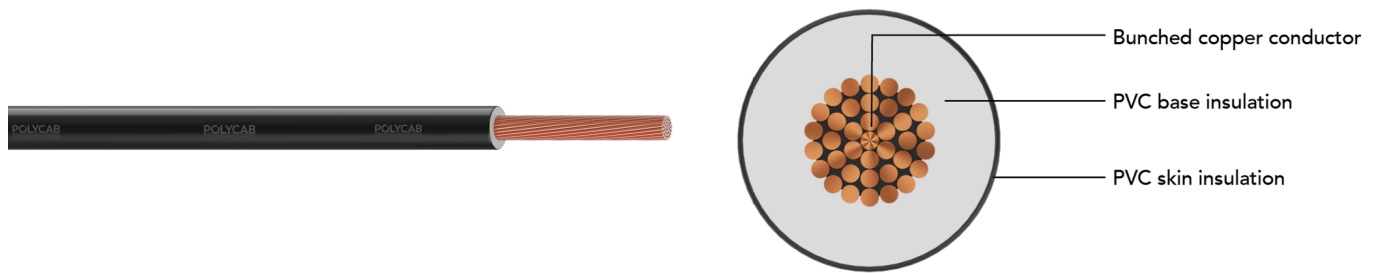


# POLYCAB Type BK BS 6231

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



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB 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.

### CHARACTERISTICS

#### Voltage Rating

600/1000 V

#### Operation Temperature

Fixed: -15°C to 70° 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 1 to EN 50363-3

#### Core Identification

Black/Blue/Brown/Grey/Orange/Pink/Red/Turquoise/Violet/White/Yellow

#### Test Voltage

3500V AC at (20±5) °C

### OUTSTANDING FEATURES

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

### 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



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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
LDBS07CYUAYA001C0.5S	0.5	0.8	2.63	11
LDBS07CYUAYA001C.75S	0.75	0.8	2.8	14
LDBS07CYUAYA001C001S	1	0.8	2.97	18
LDBS07CYUAYA001C1.5S	1.5	0.8	3.27	23
LDBS07CYUAYA001C2.5S	2.5	0.8	3.7	33
LDBS07CYUAYA001C004S	4	0.8	4.3	50
LDBS07CYUAYA001C006S	6	0.8	4.8	69
LDBS07CYUAYA001C010S	10	1	6.33	117
LDBS07CYUAYA001C016S	16	1	7.6	174
LDBS07CYUAYA001C025S	25	1.2	9.57	269
LDBS07CYUAYA001C035S	35	1.2	10.73	368
LDBS07CYUAYA001C050S	50	1.4	12.93	525
LDBS07CYUAYA001C070S	70	1.4	14.77	721
LDBS07CYUAYA001C095S	95	1.6	16.67	974
LDBS07CYUAYA001C120S	120	1.6	18.4	1213
LDBS07CYUAYA001C150S	150	1.8	20.57	1492
LDBS07CYUAYA001C185S	185	2	22.67	1873
LDBS07CYUAYA001C240S	240	2.2	25.53	2396

### Electrical characteristics

Current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area	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
	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	
mm <sup>2</sup>	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Ω/km
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

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Nominal cross sectional area	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
	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	
mm <sup>2</sup>	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Ω/km
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

The ambient temperature is 30°C,  
Conductor operating temperature 70°C.  
The above table is in accordance with Table 4D1A of BS 7671:2018

### 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