



Images not to scale. Follow table for dimensions

## APPLICATION

POLY CAB 6241B/6242B/6243B BS 7211 MC stranded copper conductor thermosetting material insulated and halogen free material sheathed with CPC (Circuit protective conductor) fulfils the requirement as per BS 7211. These cables produce lower level of smoke and corrosive gases under exposure to fire compared PVC insulated cable and can be used for lighting and domestic appliances.

## CHARACTERISTICS

**Voltage Rating**  
300/500 V

**Operation Temperature**  
Max.: 90° C

**Bending Radius**  
Fixed installation – 3 x Overall Diameter

## CONSTRUCTION

- Annealed solid or stranded copper conductor as per IEC 60228, class 1 or class 2
- Insulated with Cross linked compound type GP8 or EI 5 confirming to BS 7655-1.3/BS EN 50363-5
- Bare circuit protective conductor
- Sheathed with Halogen free material Type LTS4 confirming to BS 7655-6.1.

### Core Identification

Single core Brown or Blue  
2 core Brown and Blue or 2 x 1 & 2 x 1.5 cables, Brown and Brown

3 core Brown, Black (Centre core), Grey

### Position of CPC

2 core Circuit protective conductor (CPC) placed in between cores in same plane  
3 core Circuit protective conductor (CPC) Centrally placed with black and grey cores in same plane

### Test Voltage

2000V AC at (20±5) °C

## OUTSTANDING FEATURES

- Low smoke emission
- Flame propagation
- Halogen free

## STANDARD FOLLOWS

IEC 60228  
BS 7655-1.3/BS EN 50363-5  
BS 7655-6.1  
BS 7211:1998

## COMPLIANCE

Conductor Resistance test - IEC 60228  
Insulation Resistance test - BS 7211  
Corrosive and acid gas - EN 50267-2-2  
Single vertical flame - EN 50265-2-1  
Smoke emission - BS EN 50268-2

## OUR ACCREDITATIONS



## APPROVAL



**WEIGHT & DIMENSION DATA :**

Product Code	Construction n x mm <sup>2</sup>	Class of conductor	Nominal insulation thickness mm	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km
LDBS04CXUALC001C001S	1 x 1	1	0.7	4.3 x 5.5	51
LDBS04CXUALC001C1.5S	1 x 1.5	1	0.7	4.6 x 5.8	60
LDBS04CXUALC002C001S	2 x 1	1	0.7	4.3 x 8	77
LDBS04CXUALC002C1.5S	2 x 1.5	1	0.7	4.6 x 8.6	95
LDBS04CXUALC002C2.5S	2 x 2.5	1	0.7	5.2 x 9.8	132
LDBS04CXUALC002C001S	2 x 1	2	0.7	4.46 x 8.32	81
LDBS04CXUALC002C1.5S	2 x 1.5	2	0.7	4.79 x 8.98	99
LDBS04CXUALC002C2.5S	2 x 2.5	2	0.7	5.41 x 10.22	136
LDBS04CXUALC002C004S	2 x 4	2	0.7	5.98 x 11.36	181
LDBS04CXUALC002C006S	2 x 6	2	0.7	6.72 x 13.04	249
LDBS04CXUALC002C010S	2 x 10	2	0.7	7.85 x 15.85	381
LDBS04CXUALC002C016S	2 x 16	2	0.7	9.1 x 18.75	562
LDBS04CXUALC003C001S	3 x 1	1	0.7	4.3 x 10.5	108
LDBS04CXUALC003C1.5S	3 x 1.5	1	0.7	4.6 x 11.4	135
LDBS04CXUALC003C2.5S	3 x 2.5	1	0.7	5.2 x 13	188
LDBS04CXUALC003C004S	3 x 4	2	0.7	5.98 x 15.34	265
LDBS04CXUALC003C006S	3 x 6	2	0.7	6.72 x 17.56	363
LDBS04CXUALC003C010S	3 x 10	2	0.7	7.85 x 21.3	556
LDBS04CXUALC003C016S	3 x 16	2	0.7	9.1 x 25.25	820

**Electrical characteristics :**

Current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area mm <sup>2</sup>	Reference method A* (in conduit in wall) Amp.	Reference method C* (clipped direct) Amp.	Max. DC conductor Resistance at 20°C Ω/km
1	11.5	16	18.1
1.5	14.5	20	12.1
2.5	20	27	7.41
4	26	37	4.61
6	32	47	3.08
10	44	64	1.83
16	57	85	1.15

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Ambient temperature: 30°C

Conductor operating temperature: 70°C

The above table is in accordance with Table 4D5 of BS 7671:2018

Note- A\* For full installation method refer to Table 4A2 Installation Method 2 but for flat twin and earth cable of the 17th Edition of IEE Wiring Regulations.

C\* For full installation method refer to Table 4A2 Installation Method 20 but for flat twin and earth cable of the 17th Edition of IEE Wiring Regulations.

#### **De-Rating Factor**

**De-rating factor for 70°C thermosetting 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