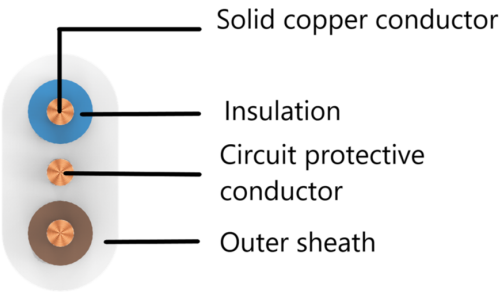
POLYCAB 6241B/6242B/6243B BS EN 7211 MC
Lighting and Appliances wire, 300/500 V AC



Images not to scale. Follow table for dimensions

APPLICATION
POLYCAB 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 fore 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
NABL

APPROVAL
FQC CE CPR COMPLIANT

POLYCAB 6241B/6242B/6243B BS EN 7211 MC
Lighting and Appliances wire, 300/500 V AC

POLYCAB
IDEAS. CONNECTED.

WEIGHT & DIMENSION DATA :

Product Code	Construction n x mm²	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 mm²	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

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