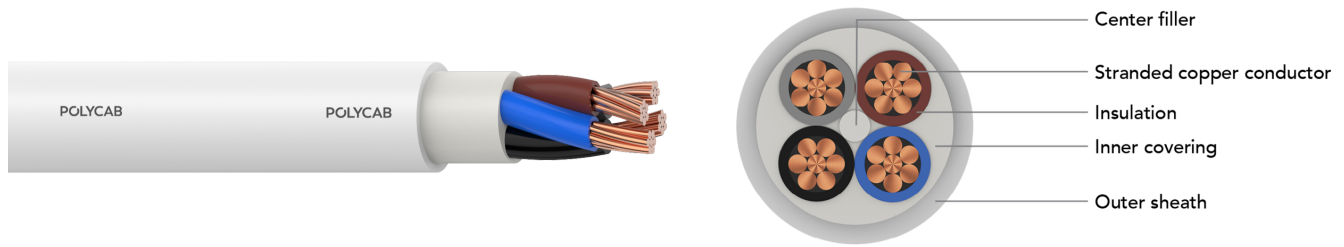


POLYCAB 6182B/6183B/6184B/6185B BS 7211

Lighting and Appliances wire, 450/750 V AC

POLYCAB
IDEAS. CONNECTED.



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB 6182B/6183B/6184B/6185B BS 7211 MC cable with thermosetting insulation and halogen free material sheathed 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

450/750 V

Operation Temperature

Max. Operating: 90° C

Bending Radius

Fixed installation → 8 x Overall Diameter

Occasional → 6 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 GP 8 or EI 5 confirming to BS 7655-1.3/EN 50363-5
- Extruded inner covering of synthetic polymeric material
- Sheathed with halogen free material type LTS4 confirming to BS 7655-6.1

Core Identification

2 core - Brown and blue

3-core - Brown, black and grey

4-core - Blue, brown, black and grey

5-core - Green/yellow, blue, brown, black and grey

Test Voltage

2500V AC at (20±5) °C

OUTSTANDING FEATURES

- Low smoke emission
- Halogen free
- Flame propagation

STANDARD FOLLOWS

IEC 60228

BS 7655-1.3/EN 50363-5

BS 7655-6.1

BS 7211:1998

COMPLIANCE

Conductor Resistance test - IEC 60228

Insulation Resistance test - BS 7211

Flame propagation test - BS EN 60332-1-2

Corrosive and acid gas - BS EN 60754-1

Single vertical flame - BS EN 50265-2-1

Smoke emission - BS EN 61034-2

OUR ACCREDITATIONS



APPROVAL



NOTES

POLYCAB 6182B/6183B/6184B/6185B BS 7211

Lighting and Appliances wire, 450/750 V AC

WEIGHT & DIMENSION DATA :

| Product Code | Construction n x mm ² | Class of conductor | Overall Diameter (Approx.) mm | Weight (Approx.) kg/km |
|----------------------|-------------------------------------|-----------------------|-------------------------------------|------------------------------|
| LDBS06CXUALC002C001S | 2 x 1 | 1 | 8.2 | 96 |
| LDBS06CXUALC002C1.5S | 2 x 1.5 | 1 | 8.8 | 117 |
| LDBS06CXUALC002C2.5S | 2 x 2.5 | 1 | 9.6 | 149 |
| LDBS06CXUALC002C004S | 2 x 4 | 1 | 10.6 | 197 |
| LDBS06CXUALC002C006S | 2 x 6 | 1 | 11.6 | 254 |
| LDBS06CXUALC002C010S | 2 x 10 | 1 | 13.2 | 362 |
| LDBS06CXUALC002C001S | 2 x 1 | 2 | 8.5 | 102 |
| LDBS06CXUALC002C1.5S | 2 x 1.5 | 2 | 9.2 | 124 |
| LDBS06CXUALC002C2.5S | 2 x 2.5 | 2 | 10.0 | 156 |
| LDBS06CXUALC002C004S | 2 x 4 | 2 | 11.2 | 207 |
| LDBS06CXUALC002C006S | 2 x 6 | 2 | 12.6 | 277 |
| LDBS06CXUALC002C010S | 2 x 10 | 2 | 14.9 | 410 |
| LDBS06CXUALC002C016S | 2 x 16 | 2 | 17 | 573 |
| LDBS06CXUALC002C025S | 2 x 25 | 2 | 20.8 | 876 |
| LDBS06CXUALC002C035S | 2 x 35 | 2 | 23.5 | 1158 |
| LDBS06CXUALC003C001S | 3 x 1 | 1 | 8.6 | 109 |
| LDBS06CXUALC003C1.5S | 3 x 1.5 | 1 | 9.3 | 136 |
| LDBS06CXUALC003C2.5S | 3 x 2.5 | 1 | 10.1 | 178 |
| LDBS06CXUALC003C004S | 3 x 4 | 1 | 11.2 | 241 |
| LDBS06CXUALC003C006S | 3 x 6 | 1 | 12.3 | 316 |
| LDBS06CXUALC003C010S | 3 x 10 | 1 | 15.8 | 508 |
| LDBS06CXUALC003C001S | 3 x 1 | 2 | 8.9 | 115 |
| LDBS06CXUALC003C1.5S | 3 x 1.5 | 2 | 9.7 | 143 |
| LDBS06CXUALC003C2.5S | 3 x 2.5 | 2 | 10.5 | 184 |
| LDBS06CXUALC003C004S | 3 x 4 | 2 | 11.7 | 250 |
| LDBS06CXUALC003C006S | 3 x 6 | 2 | 13.3 | 338 |
| LDBS06CXUALC003C010S | 3 x 10 | 2 | 15.7 | 508 |
| LDBS06CXUALC003C016S | 3 x 16 | 2 | 18.0 | 724 |
| LDBS06CXUALC003C025S | 3 x 25 | 2 | 22.2 | 1112 |
| LDBS06CXUALC003C035S | 3 x 35 | 2 | 25.0 | 1481 |
| LDBS06CXUALC004C001S | 4 x 1 | 1 | 9.2 | 129 |
| LDBS06CXUALC004C1.5S | 4 x 1.5 | 1 | 9.9 | 162 |

POLYCAB 6182B/6183B/6184B/6185B BS 7211

Lighting and Appliances wire, 450/750 V AC

| Product Code | Construction n x mm ² | Class of conductor | Overall Diameter (Approx.) mm | Weight (Approx.) kg/km |
|----------------------|-------------------------------------|-----------------------|-------------------------------------|------------------------------|
| LDBS06CXUALC004C2.5S | 4 x 2.5 | 1 | 10.9 | 216 |
| LDBS06CXUALC004C004S | 4 x 4 | 1 | 12.1 | 296 |
| LDBS06CXUALC004C006S | 4 x 6 | 1 | 13.7 | 407 |
| LDBS06CXUALC004C010S | 4 x 10 | 1 | 17.1 | 631 |
| LDBS06CXUALC004C001S | 4 x 1 | 2 | 9.6 | 136 |
| LDBS06CXUALC004C1.5S | 4 x 1.5 | 2 | 10.4 | 170 |
| LDBS06CXUALC004C2.5S | 4 x 2.5 | 2 | 11.4 | 222 |
| LDBS06CXUALC004C004S | 4 x 4 | 2 | 12.8 | 306 |
| LDBS06CXUALC004C006S | 4 x 6 | 2 | 14.9 | 430 |
| LDBS06CXUALC004C010S | 4 x 10 | 2 | 17.1 | 631 |
| LDBS06CXUALC004C016S | 4 x 16 | 2 | 19.7 | 908 |
| LDBS06CXUALC004C025S | 4 x 25 | 2 | 24.6 | 1427 |
| LDBS06CXUALC004C035S | 4 x 35 | 2 | 27.8 | 1900 |
| LDBS06CXUALC005C001S | 5 x 1 | 1 | 9.9 | 133 |
| LDBS06CXUALC005C1.5S | 5 x 1.5 | 1 | 10.7 | 170 |
| LDBS06CXUALC005C2.5S | 5 x 2.5 | 1 | 11.8 | 229 |
| LDBS06CXUALC005C004S | 5 x 4 | 1 | 13.5 | 333 |
| LDBS06CXUALC005C006S | 5 x 6 | 1 | 15.3 | 457 |
| LDBS06CXUALC005C010S | 5 x 10 | 1 | 18.7 | 681 |
| LDBS06CXUALC005C001S | 5 x 1 | 2 | 10.3 | 139 |
| LDBS06CXUALC005C1.5S | 5 x 1.5 | 2 | 11.2 | 176 |
| LDBS06CXUALC005C2.5S | 5 x 2.5 | 2 | 12.4 | 232 |
| LDBS06CXUALC005C004S | 5 x 4 | 2 | 14.7 | 353 |
| LDBS06CXUALC005C006S | 5 x 6 | 2 | 16.2 | 460 |
| LDBS06CXUALC005C010S | 5 x 10 | 2 | 18.7 | 681 |
| LDBS06CXUALC005C016S | 5 x 16 | 2 | 21.9 | 1009 |
| LDBS06CXUALC005C025S | 5 x 25 | 2 | 27.3 | 1578 |
| LDBS06CXUALC005C035S | 5 x 35 | 2 | 30.4 | 2077 |

POLYCAB 6182B/6183B/6184B/6185B BS 7211

Lighting and Appliances wire, 450/750 V AC

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) | | Reference Method E (free air or on a perforated cable tray etc horizontal or vertical) | | Maximum DC conductor resistance at 20°C |
|------------------------------|---|--|---|--|---|--|---|--|---|
| | 1 two-core cable, single-phase a.c. or d.c. | 1 three-or four-core cable, three-phase a.c. | 1 two-core cable, single-phase a.c. or d.c. | 1 three-or four-core cable, three-phase a.c. | 1 two-core cable, single-phase a.c. or d.c. | 1 three-or four-core cable, three-phase a.c. | 1 two-core cable, single-phase a.c. or d.c. | 1 three-or four-core cable, three-phase a.c. | |
| mm ² | Amp. | Amp. | Amp. | Amp. | Amp. | Amp. | Amp. | Amp. | Ω/km |
| 1 | 14.5 | 13 | 17 | 15 | 19 | 14 | 21 | 18 | 18.1 |
| 1.5 | 18.5 | 16.5 | 22 | 19.5 | 24 | 22 | 26 | 23 | 12.1 |
| 2.5 | 25 | 22 | 30 | 26 | 33 | 30 | 36 | 32 | 7.41 |
| 4 | 33 | 30 | 40 | 35 | 45 | 40 | 49 | 42 | 4.61 |
| 6 | 42 | 38 | 51 | 44 | 58 | 52 | 63 | 54 | 3.08 |
| 10 | 57 | 51 | 69 | 60 | 80 | 71 | 86 | 75 | 1.83 |
| 16 | 76 | 68 | 91 | 80 | 107 | 96 | 115 | 100 | 1.15 |
| 25 | 99 | 89 | 119 | 105 | 138 | 119 | 149 | 127 | 0.727 |
| 35 | 121 | 109 | 146 | 128 | 171 | 147 | 185 | 158 | 0.524 |

Ambient temperature: 30°C

Conductor operating temperature: 90°C

The above table is in accordance with Table 4E2A of BS 7671:2018

De-Rating Factor

De-rating factor for 90°C thermosetting insulated cable

| Air Temperature | 35°C to 50°C | 55°C | 60°C | 65°C | 70°C |
|------------------|--------------|------|------|------|------|
| De-rating factor | 1 | 0.96 | 0.83 | 0.67 | 0.47 |