

POLY CAB 6182B/6183B/6184B/6185B BS 7211

Lighting and Appliances wire, 450/750 V AC

POLY CAB
IDEAS. CONNECTED.



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB 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

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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

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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

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