



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB BS 6724 MC SWA LSZH stranded copper conductor thermosetting material insulated multicore Galvanised steel round wire armoured cable is designed to use for fixed installation in indoor and outdoor power network, underground application, industrial areas and buildings where smoke emission and toxic fumes create a potential risk when exposed to fire.

CHARACTERISTICS

Voltage Rating

1900/3300 V

Operation Temperature

Maximum operating: +90°C

Short circuit temperature 250°C

Bending Radius

Fixed installation – 12 x Overall Diameter

CONSTRUCTION

- Annealed stranded copper conductor as per IEC 60228, class 2
- Insulated with type GP8 (XLPE) to BS 7655-1.3 or type GP 6 to BS 7655-1.2 or type EI 5 to BS EN 50363-5.
- Bedding shall be extruded layer of polymeric material
- Armoured with Galvanised steel round wire
- Sheathed with LSZH polymeric material LTS1 to BS 7655-6.1

Core Identification

Brown, Black & Grey

Test Voltage

11250 V AC at (20±5) °C

OUTSTANDING FEATURES

- Low smoke emission
- Flame propagation
- Halogen free

STANDARD FOLLOWS

IEC 60228

BS 7655-1.3/1.2/EN 50363-5

BS 7655-6.1

BS 6724-1997+A3:2008

EN 60332-1-2

COMPLIANCE

Conductor Resistance test - IEC 60228

Insulation Resistance test - BS 6724

Spark test - EN 62230 & BS 5099

Smoke emission test - BS EN 61034-2

Flame propagation test - BS EN 60332-1-2

APPROVAL



POLYCAT BS 6724 MC SWA LSZH 3.3kV Power Cable, 1.9/3.3 KV AC

POLYCAT
IDEAS. CONNECTED.

WEIGHT & DIMENSION DATA :

| Product Code | Nominal cross sectional area mm ² | Nominal insulation Thickness mm | Minimum thickness of outer sheath | Overall Diameter (Approx.) mm | Weight (Approx.) kg/km | POLYCAT/DOWEL Gland Size |
|---------------------|--|---------------------------------|-----------------------------------|-------------------------------|------------------------|--------------------------|
| MVBS10CXSWL003C010S | 10 | 2 | 1.24 | 24.71 | 1351 | DBW-04A/DBF-04A |
| MVBS10CXSWL003C016S | 16 | 2 | 1.24 | 26.94 | 1652 | DBW-05A/DBF-05A |
| MVBS10CXSWL003C025S | 25 | 2 | 1.24 | 29.74 | 2104 | DBW-05A/DBF-05A |
| MVBS10CXSWL003C035S | 35 | 2 | 1.32 | 32.32 | 2540 | DBW-06A/DBF-06A |

- DBW – Weatherproof series
- DBF – Flame proof series

Electrical characteristics

Current carrying capacity and maximum DC conductor resistance.

| Nominal cross sectional area | Reference Method C (clipped direct) | Reference Method E (in free air or on a perforated cable tray etc, horizontal or vertical) | Reference Method D (direct in ground or in ducting in ground, in or around buildings) | Maximum DC conductor resistance at 20°C |
|------------------------------|--|--|---|---|
| | 1 three-or 1 four-core cable, three-phase a.c. | 1 three-or 1 four-core cable, three-phase a.c. | 1 three-or 1 four-core cable, three-phase a.c. | Ω/km |
| mm ² | Amp. | Amp. | Amp. | Ω/km |
| 10 | 73 | 78 | 58 | 1.83 |
| 16 | 94 | 99 | 75 | 1.15 |
| 25 | 124 | 131 | 96 | 0.727 |
| 35 | 154 | 162 | 115 | 0.529 |

Ambient temperature: 30°C,

Conductor operating temperature: 90°C

Where cables in this table are connected to equipment or accessories designed to operate at a temperature not exceeding 70°C, the current ratings given in the equivalent table for 70°C thermoplastic insulated cables (Table 4D4A) must be used.

The above table is in accordance with Table 4E4A of BS 7671:2018

De-Rating Factor

De-rating factor for 90°C thermosetting insulated cable

| Ambient 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 |