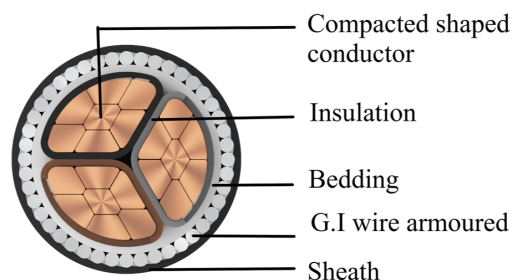


# POLYCAB BS 6724 MC SWA LSZH

## Power Cable, 0.6/1 KV AC



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB BS 6724 MC SWA LSZH stranded copper conductor thermosetting material insulated Galvanised steel wire armoured multicore 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

600/1000 V

#### Operation Temperature

Operating Temperature -20°C to +90° C

Short circuit temperature 250°C

#### Bending Radius

Fixed 12 x Overall Diameter

### CONSTRUCTION

- Annealed stranded copper conductor as per IEC 60228, class 2
- Insulated with cross linked type GP8 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

3500 V AC at (20±5) °C

### OUTSTANDING FEATURES

- Low smoke emission
- Halogen free
- Flame propagation

### 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

### OUR ACCREDITATIONS



### APPROVAL



# POLYCAB BS 6724 MC SWA LSZH

## Power Cable, 0.6/1 KV AC

### WEIGHT & DIMENSION :

| Product Code         | Nominal cross sectional area mm <sup>2</sup> | Number of Core | Nominal insulation thickness mm | Overall Diameter (Approx.) mm | Weight (Approx.) kg/km | POLYCAB/DOWEL Gland Size |
|----------------------|----------------------------------------------|----------------|---------------------------------|-------------------------------|------------------------|--------------------------|
| LVBS07CXSWLS002C1.5S | 1.5                                          | 2              | 0.6                             | 12.1                          | 293                    | DBW - 01S/DBF - 01S      |
| LVBS07CXSWLS002C2.5S | 2.5                                          | 2              | 0.7                             | 13.6                          | 367                    | DBW - 01S/DBF - 01S      |
| LVBS07CXSWLS002C004S | 4                                            | 2              | 0.7                             | 14.7                          | 441                    | DBW - 01S/DBF - 01S      |
| LVBS07CXSWLS002C006S | 6                                            | 2              | 0.7                             | 15.9                          | 527                    | DBW - 01S/DBF - 01S      |
| LVBS07CXSWLS002C010S | 10                                           | 2              | 0.7                             | 18.0                          | 692                    | DBW - 01A/DBF - 01A      |
| LVBS07CXSWLS002C016S | 16                                           | 2              | 0.7                             | 20.4                          | 986                    | DBW - 03/DBF - 03        |
| LVBS07CXSWLS002C025S | 25                                           | 2              | 0.9                             | 20.4                          | 1052                   | DBW - 03/DBF - 03        |
| LVBS07CXSWLS002C035S | 35                                           | 2              | 0.9                             | 23.3                          | 1463                   | DBW - 04A/DBF - 04A      |
| LVBS07CXSWLS002C050S | 50                                           | 2              | 1                               | 25.8                          | 1865                   | DBW - 04A/DBF - 04A      |
| LVBS07CXSWLS002C070S | 70                                           | 2              | 1.1                             | 29.0                          | 2390                   | DBW - 05A/DBF - 05A      |
| LVBS07CXSWLS002C095S | 95                                           | 2              | 1.1                             | 33.1                          | 3240                   | DBW - 07/DBF - 07        |
| LVBS07CXSWLS002C120S | 120                                          | 2              | 1.2                             | 36.1                          | 3933                   | DBW - 07/DBF - 07        |
| LVBS07CXSWLS002C150S | 150                                          | 2              | 1.4                             | 39.3                          | 4674                   | DBW - 08/DBF - 08        |
| LVBS07CXSWLS002C185S | 185                                          | 2              | 1.6                             | 44.7                          | 6045                   | DBW - 09/DBF - 09        |
| LVBS07CXSWLS002C240S | 240                                          | 2              | 1.7                             | 49.0                          | 7374                   | DBW - 010A/DBF - 010A    |
| LVBS07CXSWLS002C300S | 300                                          | 2              | 1.8                             | 53.5                          | 8906                   | DBW - 011A/DBF - 011A    |
| LVBS07CXSWLS002C400S | 400                                          | 2              | 2                               | 59.0                          | 10832                  | DBW - 011/DBF - 011      |
| LVBS07CXSWLS003C1.5S | 1.5                                          | 3              | 0.6                             | 12.6                          | 320                    | DBW - 01S/DBF - 01S      |
| LVBS07CXSWLS003C2.5S | 2.5                                          | 3              | 0.7                             | 14.1                          | 405                    | DBW - 01S/DBF - 01S      |
| LVBS07CXSWLS003C004S | 4                                            | 3              | 0.7                             | 15.3                          | 495                    | DBW - 01S/DBF - 01S      |
| LVBS07CXSWLS003C006S | 6                                            | 3              | 0.7                             | 16.6                          | 599                    | DBW - 01A/DBF - 01A      |
| LVBS07CXSWLS003C010S | 10                                           | 3              | 0.7                             | 19.5                          | 904                    | DBW - 02A/DBF - 02A      |
| LVBS07CXSWLS003C016S | 16                                           | 3              | 0.7                             | 21.6                          | 1175                   | DBW - 03/DBF - 03        |
| LVBS07CXSWLS003C025S | 25                                           | 3              | 0.9                             | 23.6                          | 1536                   | DBW - 04A/DBF - 04A      |
| LVBS07CXSWLS003C035S | 35                                           | 3              | 0.9                             | 25.7                          | 1909                   | DBW - 04A/DBF - 04A      |
| LVBS07CXSWLS003C050S | 50                                           | 3              | 1                               | 28.5                          | 2481                   | DBW - 05A/DBF - 05A      |
| LVBS07CXSWLS003C070S | 70                                           | 3              | 1.1                             | 32.2                          | 3236                   | DBW - 06A/DBF - 06A      |
| LVBS07CXSWLS003C095S | 95                                           | 3              | 1.1                             | 37.0                          | 4385                   | DBW - 08/DBF - 08        |
| LVBS07CXSWLS003C120S | 120                                          | 3              | 1.2                             | 40.4                          | 5346                   | DBW - 08/DBF - 08        |
| LVBS07CXSWLS003C150S | 150                                          | 3              | 1.4                             | 45.5                          | 6827                   | DBW - 09/DBF - 09        |
| LVBS07CXSWLS003C185S | 185                                          | 3              | 1.6                             | 49.8                          | 8196                   | DBW - 010A/DBF - 010A    |

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# POLYCAB BS 6724 MC SWA LSZH

## Power Cable, 0.6/1 KV AC

| Product Code         | Nominal cross sectional area mm <sup>2</sup> | Number of Core | Nominal insulation thickness mm | Overall Diameter (Approx.) mm | Weight (Approx.) kg/km | POLYCAB/DOWEL Gland Size |
|----------------------|----------------------------------------------|----------------|---------------------------------|-------------------------------|------------------------|--------------------------|
| LVBS07CXSWLS003C240S | 240                                          | 3              | 1.7                             | 55.1                          | 10150                  | DBW - 011/DBF - 011      |
| LVBS07CXSWLS003C300S | 300                                          | 3              | 1.8                             | 60.2                          | 12328                  | DBW - 011/DBF - 011      |
| LVBS07CXSWLS003C400S | 400                                          | 3              | 2                               | 66.6                          | 15044                  | DBW - 013A/DBF - 013A    |
| LVBS07CXSWLS004C1.5S | 1.5                                          | 4              | 0.6                             | 13.3                          | 363                    | DBW - 01S/DBF - 01S      |
| LVBS07CXSWLS004C2.5S | 2.5                                          | 4              | 0.7                             | 15.0                          | 463                    | DBW - 01S/DBF - 01S      |
| LVBS07CXSWLS004C004S | 4                                            | 4              | 0.7                             | 16.4                          | 578                    | DBW - 01S/DBF - 01S      |
| LVBS07CXSWLS004C006S | 6                                            | 4              | 0.7                             | 18.7                          | 807                    | DBW - 02A/DBF - 02A      |
| LVBS07CXSWLS004C010S | 10                                           | 4              | 0.7                             | 21.1                          | 1079                   | DBW - 03/DBF - 03        |
| LVBS07CXSWLS004C016S | 16                                           | 4              | 0.7                             | 23.4                          | 1408                   | DBW - 04A/DBF - 04A      |
| LVBS07CXSWLS004C025S | 25                                           | 4              | 0.9                             | 26.1                          | 1891                   | DBW - 05A/DBF - 05A      |
| LVBS07CXSWLS004C035S | 35                                           | 4              | 0.9                             | 28.6                          | 2371                   | DBW - 05A/DBF - 05A      |
| LVBS07CXSWLS004C050S | 50                                           | 4              | 1                               | 32.0                          | 3104                   | DBW - 06A/DBF - 06A      |
| LVBS07CXSWLS004C070S | 70                                           | 4              | 1.1                             | 37.7                          | 4388                   | DBW - 08/DBF - 08        |
| LVBS07CXSWLS004C095S | 95                                           | 4              | 1.1                             | 41.7                          | 5527                   | DBW - 09/DBF - 09        |
| LVBS07CXSWLS004C120S | 120                                          | 4              | 1.2                             | 47.1                          | 7251                   | DBW - 010A/DBF - 010A    |
| LVBS07CXSWLS004C150S | 150                                          | 4              | 1.4                             | 51.4                          | 8694                   | DBW - 010A/DBF - 010A    |
| LVBS07CXSWLS004C185S | 185                                          | 4              | 1.6                             | 56.6                          | 10455                  | DBW - 011/DBF - 011      |
| LVBS07CXSWLS004C240S | 240                                          | 4              | 1.7                             | 63.0                          | 13070                  | DBW - 012/DBF - 012      |
| LVBS07CXSWLS004C300S | 300                                          | 4              | 1.8                             | 68.8                          | 15879                  | DBW - 013A/DBF - 013A    |
| LVBS07CXSWLS004C400S | 400                                          | 4              | 2                               | 78.1                          | 20393                  | DBW - 014/DBF - 014      |
| LVBS07CXSWLS005C1.5S | 1.5                                          | 5              | 0.6                             | 14.3                          | 390                    | DBW - 01S/DBF - 01S      |
| LVBS07CXSWLS005C2.5S | 2.5                                          | 5              | 0.7                             | 16.1                          | 497                    | DBW - 01S/DBF - 01S      |
| LVBS07CXSWLS005C004S | 4                                            | 5              | 0.7                             | 17.8                          | 632                    | DBW - 01A/DBF - 01A      |
| LVBS07CXSWLS005C006S | 6                                            | 5              | 0.7                             | 20                            | 869                    | DBW - 03/DBF - 03        |
| LVBS07CXSWLS005C010S | 10                                           | 5              | 0.7                             | 22.9                          | 1186                   | DBW - 03/DBF - 03        |
| LVBS07CXSWLS005C016S | 16                                           | 5              | 0.7                             | 26.5                          | 1724                   | DBW - 05A/DBF - 05A      |
| LVBS07CXSWLS005C025S | 25                                           | 5              | 0.9                             | 31.5                          | 2420                   | DBW - 06A/DBF - 06A      |
| LVBS07CXSWLS005C035S | 35                                           | 5              | 0.9                             | 34.8                          | 3037                   | DBW - 07/DBF - 07        |
| LVBS07CXSWLS005C050S | 50                                           | 5              | 1                               | 40.4                          | 4266                   | DBW - 08/DBF - 08        |
| LVBS07CXSWLS005C1.5S | 70                                           | 5              | 1.1                             | 46.3                          | 5587                   | DBW - 010A/DBF - 010A    |
| LVBS07CXSWLS007C1.5S | 1.5                                          | 7              | 0.6                             | 15.2                          | 454                    | DBW - 01S/DBF - 01S      |
| LVBS07CXSWLS007C2.5S | 2.5                                          | 7              | 0.7                             | 17.1                          | 585                    | DBW - 01A/DBF - 01A      |

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| Product Code         | Nominal cross sectional area mm <sup>2</sup> | Number of Core | Nominal insulation thickness mm | Overall Diameter (Approx.) mm | Weight (Approx.) kg/km | POLYCAB/DOWEL Gland Size |
|----------------------|----------------------------------------------|----------------|---------------------------------|-------------------------------|------------------------|--------------------------|
| LVBS07CXSWLS012C1.5S | 1.5                                          | 12             | 0.6                             | 19.4                          | 757                    | DBW - 02A/DBF - 02A      |
| LVBS07CXSWLS012C2.5S | 2.5                                          | 12             | 0.7                             | 22.4                          | 994                    | DBW - 03/DBF - 03        |
| LVBS07CXSWLS019C1.5S | 1.5                                          | 19             | 0.6                             | 22.2                          | 998                    | DBW - 03/DBF - 03        |
| LVBS07CXSWLS019C2.5S | 2.5                                          | 19             | 0.7                             | 26.6                          | 1495                   | DBW - 05A/DBF - 05A      |
| LVBS07CXSWLS027C1.5S | 1.5                                          | 27             | 0.6                             | 26.7                          | 1447                   | DBW - 05A/DBF - 05A      |
| LVBS07CXSWLS027C2.5S | 2.5                                          | 27             | 0.7                             | 30.7                          | 1923                   | DBW - 06A/DBF - 06A      |
| LVBS07CXSWLS037C1.5S | 1.5                                          | 37             | 0.6                             | 29                            | 1739                   | DBW - 05A/DBF - 05A      |
| LVBS07CXSWLS037C2.5S | 2.5                                          | 37             | 0.7                             | 33.8                          | 2348                   | DBW - 07/DBF - 07        |

- DBW – Weatherproof series
- DBF – Flame proof series

### Electrical characteristics

#### Current carrying capacity and maximum DC conductor resistance.

| Nominal cross sectional area<br>mm <sup>2</sup> | 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<br>Ω/km |
|-------------------------------------------------|--------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|
|                                                 | 1 two-core cable single-phase a.c. or d.c. | 1 three-or 1 four-core cable, three-phase a.c. | 1 two-core cable single-phase a.c. or d.c.                                                 | 1 three-or 1 four-core cable, three-phase a.c. | 1 two-core cable single-phase a.c. or d.c.                                            | 1 three-or 1 four-core cable, three-phase a.c. |                                                 |
|                                                 | Amp.                                       | Amp.                                           | Amp.                                                                                       | Amp.                                           | Amp.                                                                                  | Amp.                                           |                                                 |
| 1.5                                             | 27                                         | 23                                             | 29                                                                                         | 25                                             | 25                                                                                    | 21                                             | 12.1                                            |
| 2.5                                             | 36                                         | 31                                             | 39                                                                                         | 33                                             | 33                                                                                    | 28                                             | 7.41                                            |
| 4                                               | 49                                         | 42                                             | 52                                                                                         | 44                                             | 46                                                                                    | 36                                             | 4.61                                            |
| 6                                               | 62                                         | 53                                             | 66                                                                                         | 56                                             | 53                                                                                    | 44                                             | 3.08                                            |
| 10                                              | 85                                         | 73                                             | 90                                                                                         | 78                                             | 71                                                                                    | 58                                             | 1.83                                            |
| 16                                              | 110                                        | 94                                             | 115                                                                                        | 99                                             | 91                                                                                    | 75                                             | 1.15                                            |
| 25                                              | 146                                        | 124                                            | 152                                                                                        | 131                                            | 116                                                                                   | 96                                             | 0.727                                           |
| 35                                              | 180                                        | 154                                            | 188                                                                                        | 162                                            | 139                                                                                   | 115                                            | 0.524                                           |
| 50                                              | 219                                        | 187                                            | 228                                                                                        | 197                                            | 164                                                                                   | 135                                            | 0.387                                           |
| 70                                              | 279                                        | 238                                            | 291                                                                                        | 251                                            | 203                                                                                   | 167                                            | 0.268                                           |
| 95                                              | 338                                        | 289                                            | 354                                                                                        | 304                                            | 239                                                                                   | 197                                            | 0.193                                           |

| 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 two-core cable single-phase a.c. or d.c. | 1 three-or 1 four-core cable, three-phase a.c. | 1 two-core cable single-phase a.c. or d.c.                                                 | 1 three-or 1 four-core cable, three-phase a.c. | 1 two-core cable single-phase a.c. or d.c.                                            | 1 three-or 1 four-core cable, three-phase a.c. |                                         |
| mm²                          | Amp.                                       | Amp.                                           | Amp.                                                                                       | Amp.                                           | Amp.                                                                                  | Amp.                                           | Ω/km                                    |
| 120                          | 392                                        | 335                                            | 410                                                                                        | 353                                            | 271                                                                                   | 223                                            | 0.153                                   |
| 150                          | 451                                        | 386                                            | 472                                                                                        | 406                                            | 306                                                                                   | 251                                            | 0.124                                   |
| 185                          | 515                                        | 441                                            | 539                                                                                        | 463                                            | 343                                                                                   | 281                                            | 0.0991                                  |
| 240                          | 607                                        | 520                                            | 636                                                                                        | 546                                            | 395                                                                                   | 324                                            | 0.0754                                  |
| 300                          | 698                                        | 599                                            | 732                                                                                        | 628                                            | 446                                                                                   | 365                                            | 0.0601                                  |
| 400                          | 787                                        | 673                                            | 847                                                                                        | 728                                            | —                                                                                     | —                                              | 0.047                                   |

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 4D3A) 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 |