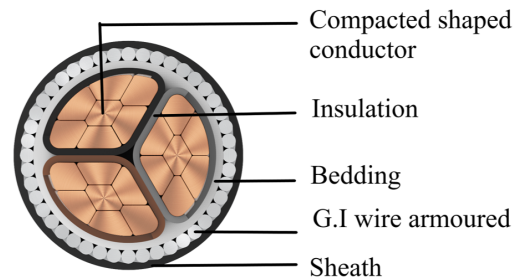


POLYCAB BS 6724 MC SWA LSZH (SHAPED CONDUCTOR)

Power Cable, 1.9/3.3 KV AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB 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 compacted 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

OUR ACCREDITATIONS



APPROVAL



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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	POLYCAB/DOWEL Gland Size
MVBS10CXSWL003C035S	35	2	1.32	28.54	2093	DBW - 05A/DBF - 05A
MVBS10CXSWL003C050S	50	2	1.4	32.39	2916	DBW - 06A/DBF - 06A
MVBS10CXSWL003C070S	70	2	1.48	35.25	3814	DBW - 07/DBF - 07
MVBS10CXSWL003C095S	95	2	1.56	38.26	4706	DBW - 08/DBF - 08
MVBS10CXSWL003C120S	120	2	1.64	42.10	6028	DBW - 09/DBF - 09
MVBS10CXSWL003C150S	150	2	1.72	44.89	7151	DBW - 09/DBF - 09
MVBS10CXSWL003C185S	185	2	1.8	47.88	8591	DBW - 010A/DBF - 010A
MVBS10CXSWL003C240S	240	2	1.88	52.28	10566	DBW - 011A/DBF - 011A
MVBS10CXSWL003C300S	300	2	1.96	56.26	12702	DBW - 011/DBF - 011
MVBS10CXSWL003C400S	400	2	2.12	60.80	15292	DBW - 011/DBF - 011

- 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 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.	
mm ²	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Ω/km
35	180	154	188	162	139	115	0.529
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
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

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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.	
mm ²	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Ω/km
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 4E3A 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