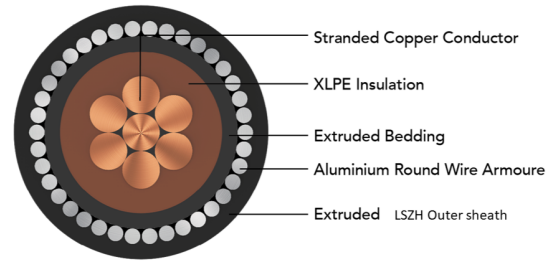


POLYCAB BS 6724 SC AWA LSZH 3.3kV

Power Cable, 1.9/3.3 KV AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB BS 6724 SC AWA LSZH stranded copper conductor thermosetting material insulated single core Aluminium 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 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 Aluminium round wire

Core Identification

Brown or Blue

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



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WEIGHT & DIMENSIONM 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
MVBS10CXSWL001C050S	50	2	1.08	19.35	885	DBW-02A/DBF-02A
MVBS10CXSWL001C075S	75	2	1.08	20.99	1128	DBW-03/DBF-03
MVBS10CXSWL001C095S	95	2	1.08	22.78	1425	DBW-03/DBF-03
MVBS10CXSWL001C120S	120	2	1.16	25.60	1814	DBW-04A/DBF-04A
MVBS10CXSWL001C150S	150	2	1.16	27.26	2162	DBW-05A/DBF-05A
MVBS10CXSWL001C185S	185	2	1.24	29.15	2580	DBW-05A/DBF-05A
MVBS10CXSWL001C240S	240	2	1.24	31.58	3198	DBW-06A/DBF-06A
MVBS10CXSWL001C300S	300	2	1.32	34.10	3889	DBW-07/DBF-07
MVBS10CXSWL001C400S	400	2	1.4	38.84	5139	DBW-08/DBF-08
MVBS10CXSWL001C500S	500	2.2	1.48	42.52	6322	DBW-09/DBF-09
MVBS10CXSWL001C630S	630	2.4	1.56	46.62	7824	DBW-010A/DBF-010A

- DBW – Weatherproof series
- DBF – Flame proof series

Electrical characteristics

Current carrying capacity and maximum DC conductor resistance

Reference Method C (clipped direct)													Reference Method F (in free air or on a perforated cable tray, horizontal or vertical)												
Nominal cross sectional area	Touching		Touching			Spaced by one cable diameter						Maximum DC conductor resistance at 20°C													
	2 cables, single- phase a.c. or d.c. flat	3 or 4 cables, three- phase a.c. flat	2 cables, single- phase a.c. or d.c. flat	3 cables, three- phase a.c. or d.c. flat	3 cables, three- phase a.c. or d.c. trefoil	2 cables, d.c.		2 cables, single-phase a.c.		3 or 4 cables, three-phase a.c.															
						Hori zontal	Verti cal	Hori zontal	Verti cal	Hori zontal	Verti cal														
mm²	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Ω/km													
50	237	220	253	232	222	284	270	282	266	288	266	0.387													
70	303	277	322	293	285	356	349	357	337	358	331	0.268													
95	367	333	389	352	346	446	426	436	412	425	393	0.193													
120	425	383	449	405	402	519	497	504	477	485	449	0.153													
150	488	437	516	462	463	600	575	566	539	549	510	0.124													
185	557	496	587	524	529	688	660	643	614	618	574	0.0991													
240	656	579	689	612	625	815	782	749	714	715	666	0.0754													

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300	755	662	792	700	720	943	906	842	805	810	755	0.0601
400	853	717	899	767	815	1,137	1,094	929	889	848	797	0.047
500	962	791	1,016	851	918	1,314	1,266	1,032	989	923	871	0.0366
630	1,082	861	1,146	935	1,027	1,528	1,474	1,139	1,092	992	940	0.0283

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

