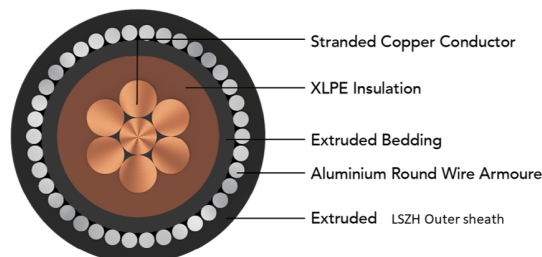


# POLYCAB BS 6724 SC AWA LSZH

## Power Cable, 0.6/1 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**  
600/1000 V

**Operation Temperature**  
Operating Temperature: -20°C to +90° C  
Short circuit temperature 250°C

**Bending Radius**  
Fixed installation – 6 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
- Sheathed with LSZH polymeric material LTS1 to BS 7655-6.1

**Core Identification**  
Brown or Blue

**Test Voltage**  
3500 V AC at (20±5) °C

### OUTSTANDING FEATURES

- Flame propagation
- Low smoke emission
- 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



# POLYCAB BS 6724 SC AWA LSZH

## Power Cable, 0.6/1 KV AC

### WEIGHT & DIMENSION DATA :

Product Code	Nominal cross sectional area	Nominal insulation thickness mm	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km	POLYCAB/DOWEL Gland Size
LVBS07CXSWLS001C050S	50	1	17.5	682	DBW - O1A/DBF - O1A
LVBS07CXSWLS001C070S	70	1.1	20.2	997	DBW - 03/DBF - 03
LVBS07CXSWLS001C095S	95	1.1	22.3	1286	DBW - 03/DBF - 03
LVBS07CXSWLS001C120S	120	1.2	24.2	1583	DBW - 04A/DBF - 04A
LVBS07CXSWLS001C150S	150	1.4	27.4	2013	DBW - 05A/DBF - 05A
LVBS07CXSWLS001C185S	185	1.6	30.0	2410	DBW - 06A/DBF - 06A
LVBS07CXSWLS001C240S	240	1.7	32.8	2997	DBW - 06A/DBF - 06A
LVBS07CXSWLS001C300S	300	1.8	35.6	3699	DBW - 07/DBF - 07
LVBS07CXSWLS001C400S	400	2	40.5	4822	DBW - 08/DBF - 08
LVBS07CXSWLS001C500S	500	2.2	44.2	5434	DBW - 09/DBF - 09
LVBS07CXSWLS001C630S	630	2.4	48.8	7439	DBW - 010A/DBF - 010A

- DBW – Weatherproof series
- DBF – Flame proof series

### Electrical characteristics

Nominal cross sectional area	Reference Method C (clipped direct)		Reference Method F (in free air or on a perforated cable tray, horizontal or vertical)										Maximum DC conductor resistance at 20°C
			Touching		Touching		Spaced by one cable diameter						
	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	
300	755	662	792	700	720	943	906	842	805	810	755	0.0601	

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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

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

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

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