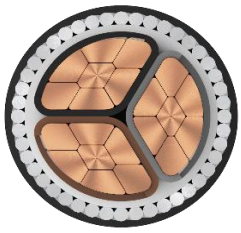
Polycab, XLPE insulated round wire armored Power cable conforming to BS 6724 standard.



These includes low voltage and medium voltage armoured cable and confirming the construction and performance of voltage rating 600/1000 V and 1900/3300 V as per BS 6724. These cables are suitable use to in public area where there is a need to reduce risk of harmful smoke and fumes when exposed to fire.

These cables are available in single and multicore with maximum conductor operating temperature of 90˚C and maximum conductor short circuit temperature 250˚C, produce low level of smoke and corrosive gases when exposed to fire than compared cables manufactured in accordance with BS 5467.

Conductor: High conductivity annealed plain stranded copper conductor produced in-house from state-of-the art Contirod line.

Insulation: In-house developed high insulation resistance cross-linked polyethylene thermoset insulation or Ethylene propylene rubber or cross linked polyolefin.

Bedding: A protective barrier created between insulation and armour by extruded layer of polymeric material.

Armour: A steel wire or aluminium wire is provided to allow the cable to withstand mechanical stresses to which it is exposed.

Sheath: In-house developed thermoplastic compound type LTS 1 having low emission of smoke and corrosive gases when exposed to fire.

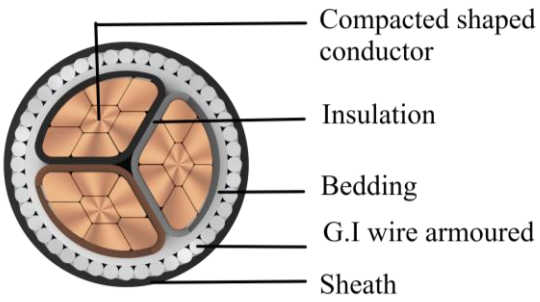
The construction based on the application and requirement of the user against BS 6724.

POLYCAB BS 6724 SC AWA LSZH - Power Cable, 0.6/1 KV AC

POLYCAB BS 6724 MC SWA LSZH - Power Cable, 0.6/1 KV AC

POLYCAB BS 6724 MC SWA LSZH

Power Cable, 0.6/1 KV AC



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.

Voltage Rating

600/1000 V

Operation Temperature

Operating Temperature -20˚C to +90˚ C
Short circuit temperature 250˚C

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

Bending Radius

Fixed 12 x Overall Diameter

Standard and References

IEC 60228
BS 7655-1.3/1.2/EN 50363-5
BS 7655-6.1
BS 6724-1997+A3:2008
EN 60332-1-2

Test Voltage

3500 V AC at (20±5) °C

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

The Cable approved for BASEC, A British approval service for cables.
The cable is compliant with European Regulation EN 50575, the construction Products Regulation (CPR).

POLYCAB BS 6724 MC SWA LSZH

Power Cable, 0.6/1 KV AC

Product Code	Nominal cross sectional area mm²	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 - O1A/DBF - O1A
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 - O11A/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 - O1A/DBF - O1A
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
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

POLYCAB BS 6724 MC SWA LSZH

Power Cable, 0.6/1 KV AC

Product Code	Nominal cross sectional area mm²	Number of Core	Nominal insulation thickness mm	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km	POLYCAB/DOWEL Gland Size
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 - O1A/DBF - O1A
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 - O1A/DBF - O1A
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

POLYCAB BS 6724 MC SWA LSZH

Power Cable, 0.6/1 KV AC

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.	
mm²	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Ω/km
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
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 70ºC, the current ratings given in the Equivalent table for 70ºC thermoplastic insulated cables (Table 4D3A) must be used.

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

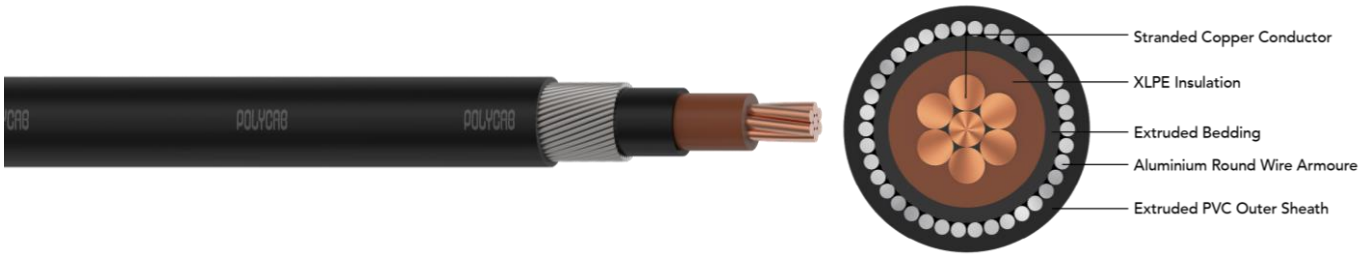
De-Rating Factor

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

POLYCAB BS 6724 SC AWA LSZH

Power Cable, 0.6/1 KV AC



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.

Voltage Rating

600/1000 V

Operation Temperature

Operating Temperature: -20˚C to +90˚ C
Short circuit temperature 250˚C

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

Bending Radius

Fixed installation – 6 x Overall Diameter

Standard and References

IEC 60228
BS 7655-1.3/1.2/EN 50363-5
BS 7655-6.1
BS 6724-1997+A3:2008
EN 60332-1-2

Test Voltage

3500 V AC at (20±5) °C

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

The Cable approved for BASEC, A British approval service for cables.
The cable compliant with European Regulation EN 50575, the construction Products Regulation (CPR).

POLYCAB BS 6724 SC AWA LSZH

Power Cable, 0.6/1 KV AC

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

Current carrying capacity and maximum DC conductor resistance.

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.		
						Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	
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
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 70ºC, the current ratings given in the equivalent table for 70ºC 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