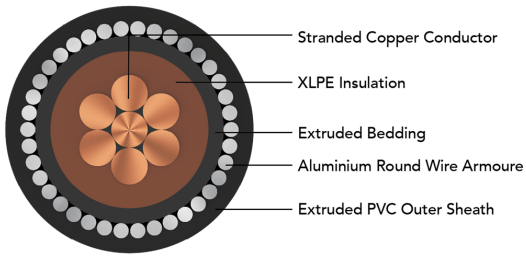
POLYCAB BS 5467 SC 1kV
Power Cable, 0.6/1 KV AC



Images not to scale. Follow table for dimensions

APPLICATION
POLYCAB BS 5467 SC stranded copper conductor thermosetting material insulated Multi core armoured cable fulfils the requirement as per BS EN 5467. These cables are suitable for fixed installation in industrial area, buildings, and similar application.

CHARACTERISTICS
Voltage Rating
600/1000 V

Operation Temperature
Fixed: -15°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
• Bedding shall be extruded layer of polymeric material.
• Armoured with Aluminium round wire armoured.
• Sheathed with PVC confirming to requirements for Type 9 to BS 7655-4.2

Core Identification
Brown or Blue

Test Voltage
3500V AC at (20±5) °C

OUTSTANDING FEATURES
- Low smoke emission
- Flame propagation
- Resistance to weather exposure

STANDARD FOLLOWS
IEC 60228
BS 7655-1.3/1.2
BS 7655-4.2
BS 5467
EN 50265

COMPLIANCE
Conductor Resistance test - IEC 60228
Insulation Resistance test - BS 5467
Spark test - BS EN 5099
Smoke emission test - BS EN 61034
Flame propagation test - BS EN 50265-2-1

OUR ACCREDITATIONS
NABL

APPROVAL
FQC BASEC

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POLYCAB
IDEAS. CONNECTED.

WEIGHT & DIMENSION DATA :

Product Code	Nominal cross sectional area mm²	Nominal insulation thickness mm	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km	POLYCAB/DOWEL Gland Size
LVBS07CXAWY2001C050S	50	1	17.5	692	DBW-01/DBF-01
LVBS07CXAWY2001C070S	70	1.1	20.2	944	DBW-03/DBF-03
LVBS07CXAWY2001C095S	95	1.1	22.3	1196	DBW-03/DBF-03
LVBS07CXAWY2001C120S	120	1.2	24.2	1475	DBW-04/DBF-04
LVBS07CXAWY2001C150S	150	1.4	27.4	1853	DBW-05/DBF-05
LVBS07CXAWY2001C185S	185	1.6	30.0	2279	DBW-05/DBF-05
LVBS07CXAWY2001C240S	240	1.7	32.8	2848	DBW-06/DBF-06
LVBS07CXAWY2001C300S	300	1.8	35.6	3569	DBW-07/DBF-07
LVBS07CXAWY2001C400S	400	2	40.5	4616	DBW-08/DBF-08
LVBS07CXAWY2001C500S	500	2.2	44.2	5479	DBW-09/DBF-09
LVBS07CXAWY2001C630S	630	2.4	48.8	7047	DBW-10/DBF-10

- 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) Touching	Reference Method F (in free air or on a perforated cable tray, horizontal or vertical)										Maximum DC conductor resistance at 20°C
		Touching				Spaced by one cable diameter						
	2 cables, single-phase a.c. or d.c. flat	3 or 4 cable, three-phase a.c. flat	2 cables, single-phase a.c. or d.c. flat	3 cable, 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

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Nominal cross sectional area	Reference Method C (clipped direct) Touching		Reference Method F (in free air or on a perforated cable tray, horizontal or vertical)									Maximum DC conductor resistance at 20°C
			Touching			Spaced by one cable diameter						
	2 cables, single-phase a.c. or d.c. flat	3 or 4 cable, three-phase a.c. flat	2 cables, single-phase a.c. or d.c. flat	3 cable, 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	
mm^2	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Ω/km
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	1082	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
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