

Polycab, XLPE insulated round wire armored Power cable conforming to BS 5467 standard.



These includes low voltage and medium voltage armored cable confirming the construction and performance of voltage rating 600/1000 V and 1900/3300 V as per BS 5467. These cables are suitable to use in fixed installations in industrial area, building or similar application.

These cables are available in single and multicore with maximum operating conductor temperature of 90°C and maximum short circuit conductor temperature 250°C.

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.

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 PVC compound to withstand mechanical abrasion while in use.

The construction based on the application and requirement of the user against BS 5467.



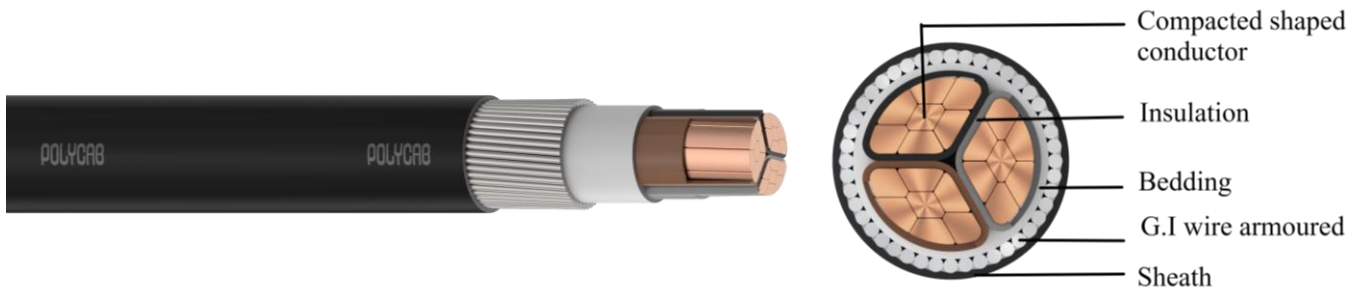
[POLYCAB BS 5467 SC - Power Cable, 0.6/1 KV AC](#)



[POLYCAB BS 5467 MC - Power Cable, 0.6/1 KV AC](#)

POLYCAB BS 5467 MC

Power Cable, 0.6/1 KV AC



Application

POLYCAB BS 5467 MC 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, Power network in underground, outdoor, indoor and similar application where mechanical protection is required.

Voltage Rating

600/1000 V

Operation Temperature

Fixed: -15°C to +90° C

Short circuit temperature 250°C

Standard and References

IEC 60228
BS 7655-1.3
BS 7655-4.2
BS 5467
EN 50265

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 Galvanised steel wire
- Sheathed with PVC confirming to Type 9 of BS 7655-4.2

Test Voltage

3500V AC at (20±5) °C

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

Core Identification

Two Core	Brown & Blue
Three Core	Brown, Black & Grey
Four Core	Blue, Brown, Black & Grey
Five core	Green and Yellow, Blue, Brown, Black & Grey

Approval

The Cable is approved for BASEC, A British approval service for cables.

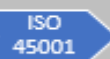
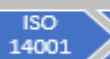
The cable is compliant with European Regulation EN 50575, the construction Products Regulation.

Bending Radius

Fixed 12 x Overall diameter



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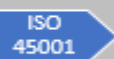


POLYCAB BS 5467 MC

Power Cable, 0.6/1 KV AC

Product Code	Size of Conductor mm ²	Number of Core	Nominal insulation thickness mm	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km	POLYCAB/DOWEL Gland Size
LVBS07CXSWY2002C1.5S	1.5	2	0.6	12.1	295	DBW-01S/DBF-01S
LVBS07CXSWY2002C2.5S	2.5	2	0.7	13.6	346	DBW-01S/DBF-01S
LVBS07CXSWY2002C004S	4	2	0.7	14.7	411	DBW-01S/DBF-01S
LVBS07CXSWY2002C006S	6	2	0.7	15.9	482	DBW-01S/DBF-01S
LVBS07CXSWY2002C010S	10	2	0.7	18.0	655	DBW-01/DBF-01
LVBS07CXSWY2002C016S	16	2	0.7	20.4	942	DBW-03/DBF-03
LVBS07CXSWY2002C025S	25	2	0.9	20.4	1173	DBW-03/DBF-03
LVBS07CXSWY2002C035S	35	2	0.9	23.3	1563	DBW-04/DBF-04
LVBS07CXSWY2002C050S	50	2	1	25.8	2096	DBW-04/DBF-04
LVBS07CXSWY2002C070S	70	2	1.1	29.0	2898	DBW-05/DBF-05
LVBS07CXSWY2002C095S	95	2	1.1	33.1	3887	DBW-07/DBF-07
LVBS07CXSWY2002C120S	120	2	1.2	36.1	4777	DBW-07/DBF-07
LVBS07CXSWY2002C150S	150	2	1.4	39.3	5445	DBW-07/DBF-07
LVBS07CXSWY2002C185S	185	2	1.6	44.7	6814	DBW-08/DBF-08
LVBS07CXSWY2002C240S	240	2	1.7	49.0	8404	DBW-09/DBF-09
LVBS07CXSWY2002C300S	300	2	1.8	53.5	10241	DBW-011A/DBF-011A
LVBS07CXSWY2002C400S	400	2	2	59.0	12921	DBW-011/DBF-011
LVBS07CXSWY2003C1.5S	1.5	3	0.6	12.6	324	DBW-01S/DBF-01S
LVBS07CXSWY2003C2.5S	2.5	3	0.7	14.1	385	DBW-01S/DBF-01S
LVBS07CXSWY2003C004S	4	3	0.7	15.3	466	DBW-01S/DBF-01S
LVBS07CXSWY2003C006S	6	3	0.7	16.6	558	DBW-01/DBF-01
LVBS07CXSWY2003C010S	10	3	0.7	19.5	919	DBW-02/DBF-02
LVBS07CXSWY2003C016S	16	3	0.7	21.6	1134	DBW-03/DBF-03
LVBS07CXSWY2003C025S	25	3	0.9	23.6	1573	DBW-04/DBF-04
LVBS07CXSWY2003C035S	35	3	0.9	25.7	1908	DBW-04/DBF-04
LVBS07CXSWY2003C050S	50	3	1	28.5	2587	DBW-05/DBF-05
LVBS07CXSWY2003C070S	70	3	1.1	32.2	3538	DBW-06/DBF-06
LVBS07CXSWY2003C095S	95	3	1.1	37.0	4778	DBW-07/DBF-07
LVBS07CXSWY2003C120S	120	3	1.2	40.4	5909	DBW-08/DBF-08
LVBS07CXSWY2003C150S	150	3	1.4	45.5	7312	DBW-09/DBF-09
LVBS07CXSWY2003C185S	185	3	1.6	49.8	8511	DBW-10/DBF-10
LVBS07CXSWY2003C240S	240	3	1.7	55.1	10618	DBW-011/DBF-011
LVBS07CXSWY2003C300S	300	3	1.8	60.2	13083	DBW-011/DBF-011
LVBS07CXSWY2003C400S	400	3	2	66.6	16658	DBW-013A/DBF-013A

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POLYCAB BS 5467 MC

Power Cable, 0.6/1 KV AC

Product Code	Size of Conductor mm ²	Number of Core	Nominal insulation thickness mm	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km	POLYCAB/DOWEL Gland Size
LVBS07CXSWY2004C1.5S	1.5	4	0.6	13.3	362	DBW-01S/DBF-01S
LVBS07CXSWY2004C2.5S	2.5	4	0.7	15.0	434	DBW-01S/DBF-01S
LVBS07CXSWY2004C004S	4	4	0.7	16.4	534	DBW-01S/DBF-01S
LVBS07CXSWY2004C006S	6	4	0.7	18.7	774	DBW-02/DBF-02
LVBS07CXSWY2004C010S	10	4	0.7	21.1	1076	DBW-03/DBF-03
LVBS07CXSWY2004C016S	16	4	0.7	23.4	1343	DBW-04/DBF-04
LVBS07CXSWY2004C025S	25	4	0.9	26.1	1886	DBW-05/DBF-05
LVBS07CXSWY2004C035S	35	4	0.9	28.6	2312	DBW-05/DBF-05
LVBS07CXSWY2004C050S	50	4	1	32.0	3182	DBW-06/DBF-06
LVBS07CXSWY2004C070S	70	4	1.1	37.7	4641	DBW-08/DBF-08
LVBS07CXSWY2004C095S	95	4	1.1	41.7	5873	DBW-09/DBF-09
LVBS07CXSWY2004C120S	120	4	1.2	47.1	7719	DBW-10/DBF-10
LVBS07CXSWY2004C150S	150	4	1.4	51.4	9005	DBW-10/DBF-10
LVBS07CXSWY2004C185S	185	4	1.6	56.6	10584	DBW-011/DBF-011
LVBS07CXSWY2004C240S	240	4	1.7	63.0	13272	DBW-012/DBF-012
LVBS07CXSWY2004C300S	300	4	1.8	68.8	16393	DBW-013A/DBF-013A
LVBS07CXSWY2004C400S	400	4	2	78.1	21880	DBW-014/DBF-014
LVBS07CXSWY2005C1.5S	1.5	5	0.6	14.3	408	DBW-01S/DBF-01S
LVBS07CXSWY2005C2.5S	2.5	5	0.7	16.1	485	DBW-01S/DBF-01S
LVBS07CXSWY2005C004S	4	5	0.7	17.8	612	DBW-01/DBF-01
LVBS07CXSWY2005C006S	6	5	0.7	20.0	886	DBW-02/DBF-02
LVBS07CXSWY2005C010S	10	5	0.7	22.9	1248	DBW-03/DBF-03
LVBS07CXSWY2005C016S	16	5	0.7	26.6	1797	DBW-05/DBF-05
LVBS07CXSWY2005C025S	25	5	0.9	31.5	2292	DBW-06/DBF-06
LVBS07CXSWY2005C035S	35	5	0.9	34.8	2722	DBW-07/DBF-07
LVBS07CXSWY2005C050S	50	5	1	40.4	4241	DBW-08/DBF-08
LVBS07CXSWY2005C070S	70	5	1.2	46.3	5318	DBW-10/DBF-10
LVBS07CXSWY2007C1.5S	1.5	7	0.6	15.2	445	DBW - 01S/DBF - 01S
LVBS07CXSWY2007C2.5S	2.5	7	0.7	17.1	577	DBW - 01A/DBF - 1A
LVBS07CXSWY2007C004S	4	7	0.7	19.7	853	DBW - 02A/DBF - 02A
LVBS07CXSWY2012C1.5S	1.5	12	0.6	19.4	748	DBW - 02A/DBF - 02A
LVBS07CXSWY2012C2.5S	2.5	12	0.7	22.4	977	DBW - 03/DBF - 03
LVBS07CXSWY2019C1.5S	1.5	19	0.6	22.2	981	DBW - 03/DBF - 03
LVBS07CXSWY2019C2.5S	2.5	19	0.7	26.6	1482	DBW - 05A/DBF - 05A
LVBS07CXSWY2027C1.5S	1.5	27	0.6	26.7	1434	DBW - 05A/DBF - 05A
LVBS07CXSWY2027C2.5S	2.5	27	0.7	30.7	1921	DBW - 06A/DBF - 06A
LVBS07CXSWY2037C1.5S	1.5	37	0.6	29	1741	DBW - 05A/DBF - 05A
LVBS07CXSWY2037C2.5S	2.5	37	0.7	33.8	2344	DBW - 07/DBF - 07

OUR ACCREDITATION



POLYCAB BS 5467 MC

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.	
mm ²	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, Ground ambient temperature: 20°C

Conductor operating temperature: 90°C

Note* Where cables in this table are connected to equipment or accessories designed to operate at a temperature not exceeding 70°C thermoplastic insulated cable (table 4D4A) 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

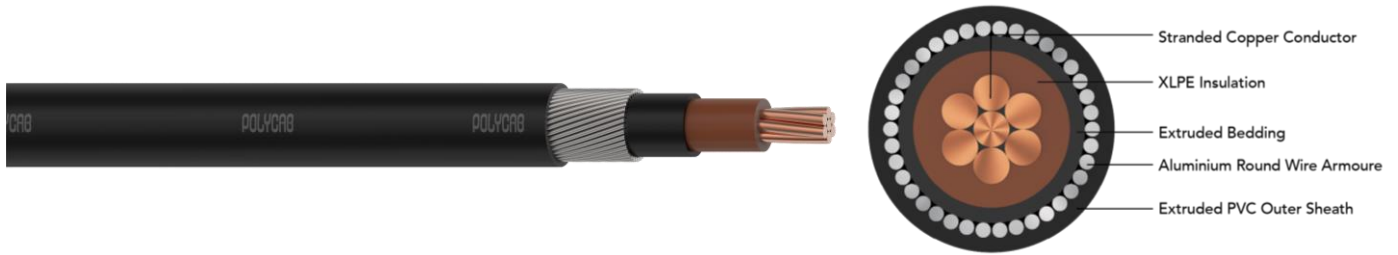
Ambient temperature	35°C to 50°C	55°C	60°C	65°C	70°C
De-Rating factor	1	0.96	0.83	0.67	0.47

OUR ACCREDITATION



POLYCAB BS 5467 SC

Power Cable, 0.6/1 KV AC



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.

Voltage Rating

600/1000 V

Operation Temperature

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

Core Identification

Brown or Blue

Bending Radius

Fixed installation – 6 x Overall Diameter

Standard and References

IEC 60228

BS 7655-1.3/1.2

BS 7655-4.2

BS 5467

EN 50265

Test Voltage

3500V AC at (20±5) °C

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

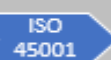
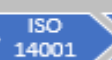
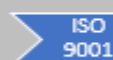
Approval

The Cable is approved for BASEC, A British approval service for cables.

The cable is compliant with European Regulation EN 50575, the construction Products Regulation.



OUR ACCREDITATION



POLYCAB BS 5467 SC

Power Cable, 0.6/1 KV AC

Product Code	Nominal cross sectional area mm ²	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

OUR ACREDITATION



POLYCAB BS 5467 SC

Power Cable, 0.6/1 KV AC

Electrical characteristics

Current carrying capacity and maximum DC conductor resistance.

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

OUR ACCREDITATION

