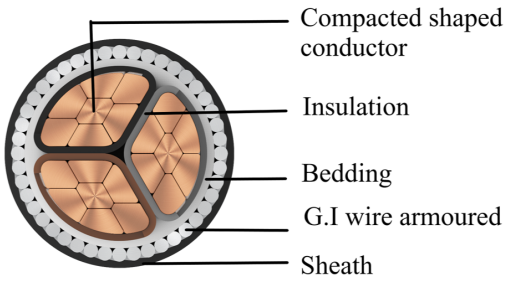
POLYCAB BS 5467 MC 1kV
Power Cable, 0.6/1 KV AC



Images not to scale. Follow table for dimensions

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.

CHARACTERISTICS

Voltage Rating
600/1000 V

Operation Temperature
Fixed: -15°C to +90° C
Short circuit temperature 250°C

Bending Radius
Fixed 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
• 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

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

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
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

APPROVAL

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POLYCAB
IDEAS. CONNECTED.

WEIGHT & DIMENSION DATA :

Product Code	Size of Conductor mm²	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

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LVBS07CXSWY2003C300S	300	3	1.8	60.2	13083	DBW-011/DBF-011
LVBS07CXSWY2003C400S	400	3	2	66.6	16658	DBW-013A/DBF-013A
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 - O1A/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

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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

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

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
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