



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB LV AL IEC 60502-1 0.6/1 KV MC-3 SWA, stranded compacted aluminium conductor, XLPE insulated, and PVC sheathed armoured cable confirming to IEC 60502-1 is suitable for fixed installation such as distribution network or industrial installation. These cable cables are designed for systems with rated AC voltage 1KV (Um=1.2 KV) & \leq 1.5 KV (with a maximum 1.8 KV DC) between two live conductor.

CHARACTERISTICS

Voltage Rating

Nominal Voltage: 0.6/1 (1.2) kV

Operation Temperature

Max. operating temperature up to 90°C

Max. Short Circuit Temperature: 250°C

CONSTRUCTION

- Conductor: Circular Compacted or Stranded Aluminium conductor as per IEC 60228, class 2
- Insulation: XLPE as per IEC 60502-1
- Inner covering: Extruded or Lapped PVC
- Armouring: Galvanised steel wire armoured (SWA)
- Outer Sheath: Extruded Polyvinylchloride (ST2) or Polyethylene (ST7) or Halogen free (ST8) as per IEC 60502-1

Core Identification

Red, Yellow, and Black

Bending Radius:

Fixed Installation: 12 x Overall diameter

Test Voltage

3.5kV AC

OUTSTANDING FEATURES

- High life
- High Insulation resistance
- Flame retardant
- Low Halogen
- Low smoke
- UV resistant

STANDARD FOLLOWS

- IEC 60228
 IEC 60502-1
 IEC 60332-1-2

COMPLIANCE

- Conductor resistance IEC 60228
 Insulation resistance IEC 60502-1
 Shrinkage test IEC 60811-503
 Flame Retardant test IEC 60332-1-2

OUR ACCREDITATIONS



APPROVAL



NOTES

The above cable is also available with EPR/HEPR insulation type.

POLY CAB LV AL IEC 60502-1 0.6/1 KV MC-3 SWA

Power Cable, 0.6/1 (1.2) KV AC

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Weight & Dimension Data

Product Code	Nominal Cross-sectional Area	Nominal Thickness			Nominal Diameter		Weight (Approx.)	
		Insulation	Inner covering	Sheath	(Approx.)			
					Armouring wire	Overall		
	mm ²	mm	mm	mm	mm	mm	Kg/Km	
LVIE07AXSWY2003C004S	4	0.70	1.00	1.40	0.80	14.5	350	
LVIE07AXSWY2003C006S	6	0.70	1.00	1.50	1.25	17.3	500	
LVIE07AXSWY2003C010S	10	0.70	1.00	1.50	1.25	18.5	630	
LVIE07AXSWY2003C016S	16	0.70	1.00	1.60	1.25	18.0	670	
LVIE07AXSWY2003C025S	25	0.90	1.00	1.70	1.60	22.8	990	
LVIE07AXSWY2003C035S	35	0.90	1.00	1.80	1.60	24.9	1180	
LVIE07AXSWY2003C050S	50	1.00	1.00	1.90	1.60	28.0	1450	
LVIE07AXSWY2003C070S	70	1.10	1.00	2.10	2.00	32.3	2010	
LVIE07AXSWY2003C095S	95	1.10	1.20	2.20	2.00	35.7	2440	
LVIE07AXSWY2003C120S	120	1.20	1.20	2.30	2.00	38.6	2800	
LVIE07AXSWY2003C150S	150	1.40	1.40	2.50	2.50	43.9	3700	
LVIE07AXSWY2003C185S	185	1.60	1.40	2.60	2.50	47.8	4300	
LVIE07AXSWY2003C240S	240	1.70	1.40	2.80	2.50	52.5	5200	
LVIE07AXSWY2003C300S	300	1.80	1.60	3.00	2.50	57.5	6170	
LVIE07AXSWY2003C400S	400	2.00	1.60	3.30	2.50	63.2	7300	
LVIE07AXSWY2003C500S	500	2.20	1.80	3.50	3.15	72.3	9850	
LVIE07AXSWY2003C630S	630	2.40	1.80	3.80	3.15	79.4	11750	

Electrical Characteristics:

Current rating and maximum DC conductor resistance.

Nominal Cross-sectional area	Buried direct in the ground at 20°C	In single way Ducts at 30°C	In air at 30°C		Maximum DC conductor Resistance at 20°C
			Amp.	Amp.	
mm ²	Amp.	Amp.	Amp.	Amp.	Ω/km
4	38	36	35		7.41
6	50	46	46		4.61
10	62	57	59		3.08
16	80	74	76		1.91
25	103	95	102		1.2
35	123	113	125		0.868
50	145	134	152		0.641
70	177	164	193		0.443

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Power Cable, 0.6/1 (1.2) KV AC

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IDEAS. CONNECTED.

Nominal Cross-sectional area mm ²	Buried direct in the ground at 20°C	In single way Ducts at 30°C	In air at 30°C	Maximum DC conductor Resistance at 20°C Ω/km
	Amp.	Amp.	Amp.	
95	213	196	238	0.32
120	241	222	274	0.253
150	269	248	312	0.206
185	305	281	362	0.164
240	353	324	431	0.125
300	399	364	497	0.1
400	454	412	579	0.0778
500	516	463	673	0.0605
630	585	518	783	0.0469

Maximum conductor temperature 90°C
 Ambient air temperature 30°C
 Ground temperature 20°C
 Depth of laying 750 mm
 Thermal resistivity of soil 1.5 K.m/W

De-Rating Factor

Current rating de-rating factors for other than 30°C ambient air temperature.

Air Temperature	20	25	35	40	45	50	55	60
De-rating factor	1.08	1.04	0.96	0.91	0.87	0.82	0.76	0.71

Current rating de-rating factors for other than 20°C ground temperature.

Ground Temperature	10	15	25	30	35	40	45	50
De-rating factor	1.07	1.04	0.96	0.93	0.89	0.85	0.8	0.76

Current rating de-rating factors for other than 30°C ground temperature for cables in Ducts.

Ground Temperature	15	25	35	40	45	50
De-rating factor	1.12	1.04	0.96	0.91	0.87	0.82