

IEC 60502-1 AL/XLPE/PVC 0.6/1 (1.2)kV Cable



CHARACTERISTICS

Voltage Rating

0.6/1 (1.2)kV

Temperature Range

Maximum Conductor Operating Temperature: +90°C

Maximum Conductor Temperature During S.C: +250°C

Minimum Bending Radius

15 x Overall Diameter

CONSTRUCTION

Conductor

Class 2 Stranded Plain Aluminium Circular Compact Conductor

Insulation

XLPE (Cross linked Polyethylene)

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

● Black

STANDARDS

IEC 60502-1, IEC 60228

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].



DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL INSULATION THICKNESS mm	NOMINAL SHEATH THICKNESS mm	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km
A9001016	1	16	0.7	1.1	8.3	95
A9001025	1	25	0.9	1.1	9.8	135
A9001035	1	35	0.9	1.1	10.9	170
A9001050	1	50	1	1.1	12.4	220
A9001070	1	70	1.1	1.1	14.2	300
A9001095	1	95	1.1	1.2	15.9	380
A9001120	1	120	1.2	1.2	17.5	470
A9001150	1	150	1.4	1.3	20.3	590
A9001185	1	185	1.6	1.3	21.6	710
A9001240	1	240	1.7	1.4	24.4	895
A9001300	1	300	1.8	1.5	27.1	1110
A9001400	1	400	2	1.6	30.4	1410
A9001500	1	500	2.2	1.7	34.3	1775
A9001630	1	630	2.4	1.8	38.4	2280
A9001800	1	800	2.6	1.9	43.8	2945
A90011000	1	1000	2.8	2	50.7	3710

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/Km	MAXIMUM CONDUCTOR AC RESISTANCE AT 50 Hz Ω/Km	COPPER SCREEN SCC For 1 second KA	CURRENT CAPACITY RATING
				Laid in free air
16	1.91	2.435	1.51	81
25	1.2	1.53	2.36	109
35	0.868	1.107	3.31	135
50	0.641	0.817	4.72	166
70	0.443	0.565	6.61	212
95	0.32	0.408	13.59	261
120	0.253	0.323	17.17	305
150	0.206	0.263	21.46	352
185	0.164	0.209	26.47	411
240	0.125	0.159	34.34	493
300	0.1	0.128	42.93	575
400	0.0778	0.099	57.23	678
500	0.0605	0.077	71.54	800
630	0.469	0.06	90.14	936
800	0.0367	0.047	114.47	1094
1000	0.0291	0.037	143.08	1267

Laying conditions at trefoil formation are as below:

- Soil thermal resistivity: 120°C.Cm/Watt
- Burial depth: 0.5m
- Air temperature: 25°C | Frequency: 50Hz

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.