

IEC 60502-1 AL/XLPE/MDPE 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

MDPE (Medium Density Polyethylene)

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 meets the requirements of 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
A902Y01016	1	16	0.7	1.1	8.9	85
A902Y01025	1	25	0.9	1.1	10.4	120
A902Y01035	1	35	0.9	1.1	11.5	155
A902Y01050	1	50	1	1.1	13	200
A902Y01070	1	70	1.1	1.1	14.8	275
A902Y01095	1	95	1.1	1.2	16.5	350
A902Y01120	1	120	1.2	1.2	18.1	440
A902Y01150	1	150	1.4	1.3	20.9	550
A902Y01185	1	185	1.6	1.3	22.2	670
A902Y01240	1	240	1.7	1.4	25	845
A902Y01300	1	300	1.8	1.5	27.7	1045
A902Y01400	1	400	2	1.6	31	1335
A902Y01500	1	500	2.2	1.7	34.9	1680
A902Y01630	1	630	2.4	1.8	39	2165
A902Y01800	1	800	2.6	1.9	44.4	2800
A902Y011000	1	1000	2.8	2	51.3	3535

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	82
25	1.2	1.53	2.36	111
35	0.868	1.107	3.31	137
50	0.641	0.817	4.72	168
70	0.443	0.565	6.61	215
95	0.32	0.408	13.59	264
120	0.253	0.323	17.17	309
150	0.206	0.263	21.46	357
185	0.164	0.209	26.47	416
240	0.125	0.159	34.34	499
300	0.1	0.128	42.93	581
400	0.0778	0.099	57.23	685
500	0.0605	0.077	71.54	808
630	0.469	0.06	90.14	946
800	0.0367	0.047	114.47	1105
1000	0.0291	0.037	143.08	1280

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.