IEC 60502-1 AL/XLPE/LSZH 1.8/3 (3.6)kV Cable

CHARACTERISTICS

Voltage Rating
1.8/3 (3.6)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
LSZH (Low Smoke Zero Halogen)

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®.

ELAND CABLES

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL INSULATION THICKNESS mm	NOMINAL SHEATH THICKNESS mm	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km
A9OH3KV01016	1	16	2	1.4	14	240
A9OH3KV01025	1	25	2	1.4	15.1	285
A9OH3KV01035	1	35	2	1.4	16.2	330
A9OH3KV01050	1	50	2	1.4	17.5	390
A9OH3KV01070	1	70	2	1.5	19.3	490
A9OH3KV01095	1	95	2	1.5	20.8	580
A9OH3KV01120	1	120	2	1.6	22.4	690
A9OH3KV01150	1	150	2	1.6	24.6	810
A9OH3KV01185	1	185	2	1.7	25.7	940
A9OH3KV01240	1	240	2	1.8	28.3	1140
A9OH3KV01300	1	300	2	1.8	30.6	1355
A9OH3KV01400	1	400	2	1.9	33.5	1660
A9OH3KV01500	1	500	2.2	2	38.2	2135
A9OH3KV01630	1	630	2.4	2.2	42.5	2700
A9OH3KV01800	1	800	2.6	2.3	47.9	3420
A9OH3KV011000	1	1000	2.8	2.4	54.8	4255

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	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 ground	Laid in duct	Laid in free air
16	1.91	2.435	1.51	87	66	63
25	1.2	1.53	2.36	110	84	95
35	0.868	1.107	3.31	131	105	121
50	0.641	0.817	4.72	155	121	147
70	0.443	0.565	6.61	189	152	179
95	0.32	0.408	13.59	226	179	215
120	0.253	0.323	17.17	263	215	242
150	0.206	0.263	21.46	294	236	299
185	0.164	0.209	26.47	336	267	336
240	0.125	0.159	34.34	389	315	399
300	0.1	0.128	42.93	436	357	462
400	0.0778	0.099	57.23	504	410	541
500	0.0605	0.077	71.54	567	467	630
630	0.469	0.06	90.14	646	536	746
800	0.0367	0.047	114.47	704	599	851
1000	0.0291	0.037	143.08	767	651	966

Laying conditions at trefoil formation are as below:
-Soil thermal resistivity: 120°C.Cm/Watt
-Burial depth: 0.5m
-Ground Temperature: 15°C | Air temperature: 25°C | Frequency: 50Hz

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