ELAND CABLES

NA2XH Cable
IEC 60502-1 AL/XLPE/LSZH 1.8/3 (3.6)kV

APPLICATION

XLPE insulated and halogen-free thermoplastic compound sheathed power and auxiliary fixed wiring cables for the supply of electrical energy. Installations where fire and emissions of smoke and toxic fumes create a potential threat. Not suitable for use in water.

CHARACTERISTICS

Voltage Rating
AC: 1.8/3 (3.6)kV
DC: 2.7/5.4 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,
Flame Retardant to IEC 60332-1-2
Low Smoke Halogen Free to IEC 61034-1/2, IEC 60754-1/2
UV resistant ISO 4892
Ozone resistant EN 50396
Resistant to oils, greases

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 mm²	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km
A9OH3KV01016	1	16	14	240
A9OH3KV01025	1	25	15.1	285
A9OH3KV01035	1	35	16.2	330
A9OH3KV01050	1	50	17.5	390
A9OH3KV01070	1	70	19.3	490
A9OH3KV01095	1	95	20.8	580
A9OH3KV01120	1	120	22.4	690
A9OH3KV01150	1	150	24.6	810
A9OH3KV01185	1	185	25.7	940
A9OH3KV01240	1	240	28.3	1140
A9OH3KV01300	1	300	30.6	1355
A9OH3KV01400	1	400	33.5	1660
A9OH3KV01500	1	500	38.2	2135
A9OH3KV01630	1	630	42.5	2700
A9OH3KV01800	1	800	47.9	3420
A9OH3KV011000	1	1000	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	CURRENT CAPACITY RATING		
			Laid in ground	Laid in duct	Laid in free air
16	1.91	2.435	87	66	63
25	1.2	1.53	110	84	95
35	0.868	1.107	131	105	121
50	0.641	0.817	155	121	147
70	0.443	0.565	189	152	179
95	0.32	0.408	226	179	215
120	0.253	0.323	263	215	242
150	0.206	0.263	294	236	299
185	0.164	0.209	336	267	336
240	0.125	0.159	389	315	399
300	0.1	0.128	436	357	462
400	0.0778	0.099	504	410	541
500	0.0605	0.077	567	467	630
630	0.469	0.06	646	536	746
800	0.0367	0.047	704	599	851
1000	0.0291	0.037	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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