NA2X2Y Cable 1.8/3kV
IEC 60502-1 AL/XLPE/MDPE

APPLICATION

Low Voltage power and auxiliary fixed wiring cables for the supply of electrical energy. Suitable for external installation including damp and wet conditions (AD7).

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
MDPE (Low Density Polyethylene)

Sheath Colour
● Black

STANDARDS

IEC 60502-1, IEC 60228,
UV resistant ISO 4892
Halogen free to IEC 60754
Water resistant to AD7

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®.

ELAND CABLES

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km
A9O2Y3KV01016	1	16	11.5	125
A9O2Y3KV01025	1	25	12.6	160
A9O2Y3KV01035	1	35	13.7	195
A9O2Y3KV01050	1	50	15	240
A9O2Y3KV01070	1	70	16.8	325
A9O2Y3KV01095	1	95	18.3	400
A9O2Y3KV01120	1	120	19.9	490
A9O2Y3KV01150	1	150	22.1	590
A9O2Y3KV01185	1	185	23.2	705
A9O2Y3KV01240	1	240	25.8	875
A9O2Y3KV01300	1	300	28.2	1065
A9O2Y3KV01400	1	400	30.9	1330
A9O2Y3KV01500	1	500	34.9	1680
A9O2Y3KV01630	1	630	39	2165
A9O2Y3KV01800	1	800	44.4	2800
A9O2Y3KV011000	1	1000	51.3	3535

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	106	77	89
25	1.2	1.53	136	99	117
35	0.868	1.107	163	119	143
50	0.641	0.817	192	142	174
70	0.443	0.565	236	176	220
95	0.32	0.408	281	213	269
120	0.253	0.323	321	245	315
150	0.206	0.263	359	277	360
185	0.164	0.209	408	318	417
240	0.125	0.159	474	375	498
300	0.1	0.128	536	430	578
400	0.0778	0.099	613	497	680
500	0.0605	0.077	699	579	801
630	0.469	0.06	795	670	936
800	0.0367	0.047	897	769	1090
1000	0.0291	0.037	999	878	1260

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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