NA2X2Y Cable 0.6/1kV
IEC 60502-1 AL/XLPE/MDPE

APPLICATION

Low Voltage power and auxiliary fixed wiring cables for the supply of electrical energy.

CHARACTERISTICS

Voltage Rating
AC: 0.6/1 (1.2)kV
DC: 0.9/1.8kV

Temperature Range
Maximum Conductor Operating Temperature: +90°C
Maximum Conductor Temperature During S.C: +250°C

Minimum Bending Radius
Single core: 15 x Overall Diameter
Multicore: 12 x Overall Diameter

CONSTRUCTION

Conductor
Class 2 Stranded Plain Aluminium Circular Compact Conductor
3 & 4 core: Sector Shaped for sizes ≥ 50 mm²

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®.

ELAND CABLES

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL INSULATION THICKNESS mm	NOMINAL SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A9O2Y01016	1	16	85	1.4	8.5	85
A9O2Y01025	1	25	120	1.4	10	120
A9O2Y01035	1	35	155	1.4	11.1	155
A9O2Y01050	1	50	200	1.4	12.6	200
A9O2Y01070	1	70	275	1.4	14.4	275
A9O2Y01095	1	95	350	1.5	16.1	350
A9O2Y01120	1	120	440	1.5	17.7	440
A9O2Y01150	1	150	545	1.6	20.3	545
A9O2Y01185	1	185	655	1.6	21.6	655
A9O2Y01240	1	240	835	1.7	24.4	835
A9O2Y01300	1	300	1040	1.8	27.2	1040
A9O2Y01400	1	400	1320	1.9	30.3	1320
A9O2Y01500	1	500	1660	2	33.9	1660
A9O2Y01630	1	630	2160	2.2	38.6	2160
A9O2Y01800	1	800	2800	2.3	44	2800
A9O2Y011000	1	1000	3445	2.4	49.2	3445
A9O2Y02070	2	70	1.1	1.8	27.5	760
A9O2Y02095	2	95	1.1	2	30.9	975
A9O2Y02120	2	120	1.2	2.1	34.1	1215
A9O2Y02150	2	150	1.4	2.2	39.5	1555
A9O2Y02185	2	185	1.6	2.3	42.3	1860
A9O2Y02240	2	240	1.7	2.5	47.9	2380
A9O2Y02300	2	300	1.8	2.7	53.5	2970
A9O2Y02400	2	400	2	2.9	59.7	3760
A9O2Y03070	3	70	1.1	1.9	25.9	855
A9O2Y03095	3	95	1.1	2	29.2	1090
A9O2Y03120	3	120	1.2	2.1	32.4	1375
A9O2Y03150	3	150	1.4	2.3	35.5	1690
A9O2Y03185	3	185	1.6	2.4	39.5	2085
A9O2Y03240	3	240	1.7	2.6	44.6	2650
A9O2Y03300	3	300	1.8	2.8	49.5	3255
A9O2Y03400	3	400	2	3.1	56.7	4290
A9O2Y04070	4	70	1.1	2	30.2	1090
A9O2Y04095	4	95	1.1	2.1	32.7	1390
A9O2Y04120	4	120	1.2	2.3	36.8	1775
A9O2Y04150	4	150	1.4	2.4	41.3	2190
A9O2Y04185	4	185	1.6	2.6	46.3	2725
A9O2Y04240	4	240	1.7	2.8	52.1	3460
A9O2Y04300	4	300	1.8	3	57.7	4275
A9O2Y04400	4	400	2	3.3	66.1	5660

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ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM CONDUCTOR DC RESISTANCE AT 20 °C Ω/Km	MAXIMUM CONDUCTOR AC RESISTANCE AT OPERATING TEMP. AND 50HZ Ω/Km	CONDUCTOR S.C.C FOR 1 SEC KA	CURRENT RATING A		
					Laid in ground	Laid in duct	Laid in free air
1	16	1.91	2.435	1.49	100	69	1.4
1	25	1.2	1.53	2.34	129	91	1.4
1	35	0.868	1.107	3.27	155	110	1.4
1	50	0.641	0.817	4.68	184	133	1.4
1	70	0.443	0.565	6.55	225	165	1.4
1	95	0.32	0.408	8.9	269	200	1.5
1	120	0.253	0.323	11.24	307	230	1.5
1	150	0.206	0.263	14.05	344	261	1.6
1	185	0.164	0.209	17.33	390	302	1.6
1	240	0.125	0.159	22.48	453	355	1.7
1	300	0.1	0.128	28.11	513	408	1.8
1	400	0.0778	0.099	37.48	587	475	1.9
1	500	0.0605	0.077	46.85	671	555	2
1	630	0.0469	0.06	59.03	764	643	2.2
1	800	0.0367	0.047	74.96	862	740	2.3
1	1000	0.0291	0.037	93.7	963	842	2.4
2	70	0.443	0.565	6.55	255	187	247
2	95	0.32	0.408	8.90	305	225	303
2	120	0.253	0.323	11.24	348	260	353
2	150	0.206	0.263	14.05	390	295	404
2	185	0.164	0.209	17.33	441	338	467
2	240	0.125	0.159	22.48	513	400	555
2	300	0.1	0.128	28.11	582	459	643
2	400	0.0778	0.099	37.48	666	533	751
3	70	0.443	0.565	6.55	207	150	199
3	95	0.32	0.408	8.90	249	182	245
3	120	0.253	0.323	11.24	284	209	286
3	150	0.206	0.263	14.05	317	237	324
3	185	0.164	0.209	17.33	359	272	375
3	240	0.125	0.159	22.48	417	321	446
3	300	0.1	0.128	28.11	471	367	514
3	400	0.0778	0.099	37.48	541	430	606
4	70	0.443	0.565	6.55	213	157	211
4	95	0.32	0.408	8.90	254	188	256
4	120	0.253	0.323	11.24	289	217	299
4	150	0.206	0.263	14.05	325	247	342
4	185	0.164	0.209	17.33	368	285	397
4	240	0.125	0.159	22.48	427	335	471
4	300	0.1	0.128	28.11	483	384	543
4	400	0.0778	0.099	37.48	555	449	639

Laying conditions at trefoil formation are as below:

-Soil thermal resistivity 120 °C.Cm/Watt

-Burial depth 0.5 m | Ground temperature 15 °C | Air temperature 25 °C | Frequency 50 Hz