



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 $\geq 50 \text{ mm}^2$

Insulation

XLPE (Cross linked Polyethylene)

Sheath

MDPE (Medium 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 IECCE 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



SCIENCE
BASED
TARGETS

BUSINESS
AMBIITION FOR 1.5°C



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 OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A902Y01016	1	16	0.7	1.4	8.5	85
A902Y01025	1	25	0.9	1.4	10	120
A902Y01035	1	35	0.9	1.4	11.1	155
A902Y01050	1	50	1.0	1.4	12.6	200
A902Y01070	1	70	1.1	1.4	14.4	275
A902Y01095	1	95	1.1	1.5	16.1	350
A902Y01120	1	120	1.2	1.5	17.7	440
A902Y01150	1	150	1.4	1.6	20.3	545
A902Y01185	1	185	1.6	1.6	21.6	655
A902Y01240	1	240	1.7	1.7	24.4	835
A902Y01300	1	300	1.8	1.8	27.2	1040
A902Y01400	1	400	2.0	1.9	30.3	1320
A902Y01500	1	500	2.2	2	33.9	1660
A902Y01630	1	630	2.4	2.2	38.6	2160
A902Y01800	1	800	2.6	2.3	44	2800
A902Y011000	1	1000	2.8	2.4	49.2	3445
A902Y02070	2	70	1.1	1.8	27.5	760
A902Y02095	2	95	1.1	2	30.9	975
A902Y02120	2	120	1.2	2.1	34.1	1215
A902Y02150	2	150	1.4	2.2	39.5	1555
A902Y02185	2	185	1.6	2.3	42.3	1860
A902Y02240	2	240	1.7	2.5	47.9	2380
A902Y02300	2	300	1.8	2.7	53.5	2970
A902Y02400	2	400	2	2.9	59.7	3760
A902Y03070	3	70	1.1	1.9	25.9	855
A902Y03095	3	95	1.1	2	29.2	1090
A902Y03120	3	120	1.2	2.1	32.4	1375
A902Y03150	3	150	1.4	2.3	35.5	1690
A902Y03185	3	185	1.6	2.4	39.5	2085
A902Y03240	3	240	1.7	2.6	44.6	2650
A902Y03300	3	300	1.8	2.8	49.5	3255
A902Y03400	3	400	2	3.1	56.7	4290
A902Y04070	4	70	1.1	2	30.2	1090
A902Y04095	4	95	1.1	2.1	32.7	1390
A902Y04120	4	120	1.2	2.3	36.8	1775
A902Y04150	4	150	1.4	2.4	41.3	2190
A902Y04185	4	185	1.6	2.6	46.3	2725
A902Y04240	4	240	1.7	2.8	52.1	3460
A902Y04300	4	300	1.8	3	57.7	4275
A902Y04400	4	400	2	3.3	66.1	5660

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.

ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	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	84
1	25	1.2	1.53	2.34	129	91	113
1	35	0.868	1.107	3.27	155	110	140
1	50	0.641	0.817	4.68	184	133	172
1	70	0.443	0.565	6.55	225	165	220
1	95	0.32	0.408	8.9	269	200	271
1	120	0.253	0.323	11.24	307	230	317
1	150	0.206	0.263	14.05	344	261	366
1	185	0.164	0.209	17.33	390	302	428
1	240	0.125	0.159	22.48	453	355	513
1	300	0.1	0.128	28.11	513	408	598
1	400	0.0778	0.099	37.48	587	475	705
1	500	0.0605	0.077	46.85	671	555	832
1	630	0.0469	0.06	59.03	764	643	974
1	800	0.0367	0.047	74.96	862	740	1137
1	1000	0.0291	0.037	93.7	963	842	1318
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

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