



NA2XS2Y 18/30 (36)kV Cable



Eland Product Group: A9X

APPLICATION

Medium voltage power cables for distribution networks and generation units, suitable for external installation including in direct in ground and in buried cable ducts. UV Resistant.

CHARACTERISTICS

Voltage Rating U₀/U (Um)
18/30 (36)kV

Test Voltage
63kV AC 50Hz (5 mins)

Temperature Rating
-20°C to +60°C
Permissible Conductor Operating Temperature: +90°C
Permissible Short Circuit Temperature up to 5 sec: 250°C

Minimum Bending Radius
15 x overall diameter

CONSTRUCTION

Conductor
Class 2 Stranded Aluminium

Conductor Screen
Semi-conductive material

Insulation
XLPE (Cross-Linked Polyethylene)

Insulation Screen
Semi-conductive material (bonded)

Screen
Copper wires and copper tape

Outer Sheath
MDPE (Medium Density Polyethylene)

Sheath Colour
● Red ● Black

STANDARDS

IEC 60502-2, IEC 60228,
UV Resistant: ISO 4892-3
Abrasion and Tear Resistant: EN 60229-4.1
Impact rated to: AG2 EN 60364-5.51

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECIE 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
AMBITION 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 CONDUCTOR DIAMETER mm	NUMBER WIRES CONDUCTOR mm	NOM. THICKNESS SEMI-CON. LAYER		NOMINAL INSULATION THICKNESS mm	MINIMUM INSULATION THICKNESS mm	NOMINAL DIAMETER OVER INSULATION mm
		Conductor	Screen			INNER mm	OUTER mm			
A9XA30KV1050	1	50	16	8.20	7 x 2.90	0.50	0.40	8.00	7.10	25.2
A9XA30KV1070	1	70	16	9.70	19 x 2.18	0.50	0.40	8.00	7.10	26.7
A9XA30KV1095	1	95	16	11.4	19 x 2.55	0.50	0.40	8.00	7.10	28.4
A9XA30KV1120	1	120	16	12.65	19 x 2.90	0.50	0.40	8.00	7.10	29.7
A9XA30KV1150	1	150	25	14.4	19 x 3.16	0.50	0.40	8.00	7.10	31.4
A9XA30KV1185	1	185	25	15.75	37 x 2.55	0.50	0.40	8.00	7.10	33.2
A9XA30KV1240	1	240	25	18.2	37 x 2.90	0.50	0.40	8.00	7.10	35.7
A9XA30KV1300	1	300	25	20.5	61 x 2.55	0.50	0.40	8.00	7.10	38.0
A9XA30KV1400	1	400	35	23.0	61 x 2.90	0.50	0.40	8.00	7.10	40.5
A9XA30KV1500	1	500	35	26.0	61 x 3.20	0.50	0.40	8.00	7.10	43.5
A9XA30KV1630	1	630	35	30.2	61 x 3.65	0.50	0.40	8.00	7.10	47.7

NOMINAL CROSS SECTIONAL AREA mm ²	NUMBER WIRES SCREEN mm	DIAMETER TAPE SCREEN mm	NOMINAL SHEATH THICKNESS mm	MINIMUM SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	MAXIMUM SIDEWALL PRESSURE N/cm ²	MAXIMUM PULLING TENSION N
50	44 x 0.66	1x0.1x10	2.00	1.40	32	900	255	1500
70	44 x 0.66	1x0.1x10	2.00	1.40	33	1100	328	2100
95	44 x 0.66	1x0.1x10	2.10	1.48	35	1200	409	2850
120	44 x 0.66	1x0.1x10	2.10	1.48	36	1300	493	3600
150	71 x 0.66	1x0.1x10	2.20	1.56	38	1500	573	4500
185	71 x 0.66	1x0.1x10	2.20	1.56	40	1700	664	5550
240	71 x 0.66	1x0.1x10	2.30	1.64	43	1900	784	7200
300	71 x 0.66	1x0.1x10	2.40	1.72	45	2250	916	9000
400	60 x 0.85	1x0.1x15	2.50	1.80	48	2750	1127	12000
500	60 x 0.85	1x0.1x15	2.60	1.88	51	3000	1299	15000
630	60 x 0.85	1x0.1x15	2.70	1.96	56	3500	1462	18900



ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR DC RESISTANCE AT 20°C	CONDUCTOR DC RESISTANCE AT 75°C	CONDUCTOR AC RESISTANCE BY MAX TEMP	CURRENT CARRYING CAPACITY (A)		REACTANCE	CHARGING ADMITTANCE	CAPACITANCE	S.C.C CONDUCTOR 1SEC kA	S.C.C SCREEN 1SEC kA	CONDUCTOR LOSSES IN THE GROUND
	ohms/km	ohms/km	ohms/km	In Ground 20°C	In Air 30°C	ohms/km	A/km	uF/km		kA	kW/km
50	0.641	1.32	0.825	196	217	0.20	0.43	0.12	4.70	3.2	31.7
70	0.443	0.917	0.570	238	270	0.19	0.41	0.13	6.58	3.2	32.3
95	0.32	0.662	0.412	284	328	0.19	0.39	0.14	8.93	3.2	33.2
120	0.258	0.524	0.328	322	378	0.18	0.38	0.15	11.28	3.2	34.0
150	0.203	0.426	0.268	355	425	0.18	0.36	0.17	14.10	5.0	33.8
185	0.164	0.339	0.213	400	485	0.18	0.35	0.18	17.39	5.0	34.1
240	0.125	0.258	0.160	461	572	0.17	0.33	0.20	22.56	5.0	34.6
300	0.100	0.207	0.132	516	649	0.17	0.32	0.22	28.20	5.0	35.1
400	0.0778	0.161	0.103	572	737	0.16	0.32	0.24	37.60	7.1	33.7
500	0.0605	0.125	0.0810	638	835	0.16	0.30	0.26	47.00	7.1	33.0
630	0.0469	0.0972	0.0640	860	1080	0.15	0.29	0.29	59.22	7.1	47.3

Derating factor (ground): 1 (Soil thermal resistivity: 1km/W, Depth 0.8m, Flat formation - touching)

Derating factor (air): 1 (Flat formation - touching)