

N2XSEY XLPE PVC - 6/10 (12)kV Cable



Eland Product Group: A9X

APPLICATION

Medium voltage cables for distribution networks; also for connection to generation units and plant and process connection. To be laid directly in ground, outdoors, indoors and in cable ducts e.g. in industrial and switchboard plants.

CHARACTERISTICS

Voltage Rating U_o/U (U_m)
6/10 (12)kV

Temperature Range

Maximum conductor operating temperature: 90°C
Initial temperature at S.C.C for metallic screen: 80°C
Maximum conductor temperature during S.C: 250°C

Minimum Bending Radius

10 x overall diameter

CONSTRUCTION

Conductor

Class 2 Stranded copper conductor

Conductor Screen

Extruded Inner Semi Conductor (Bonded Type)

Insulation

XLPE (Cross-Linked Polyethylene)

Insulation Screen

Extruded Outer Semi Conductor (Strippable Type)

Screen

Copper wires with Open Helix Copper Tape Screen

Outer Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

● Red ● Black

STANDARDS

IEC 60228, IEC 60502-2

Flame Retardant according to IEC/EN 60332-1-2

UV Resistant

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



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 SCREEN CROSS SECTIONAL AREA mm ²	NOMINAL INSULATION THICKNESS mm	NOMINAL SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A9X10KV3050	3	50	16	3.4	2.4	43.8	2752
A9X10KV3070	3	70	16	3.4	2.5	47.9	3513
A9X10KV3095	3	95	16	3.4	2.7	51.1	4399
A9X10KV3120	3	120	16	3.4	2.8	54.3	5241
A9X10KV3150	3	150	25	3.4	2.9	58	6300
A9X10KV3185	3	185	25	3.4	3	61.4	7440
A9X10KV3240	3	240	25	3.4	3.2	66.8	9359
A9X10KV3300	3	300	25	3.4	3.3	72.2	11267
A9X10KV3400	3	400	35	3.4	3.6	78.4	14127
A9X10KV3500	3	500	35	3.4	3.8	86.2	17513

ELECTRICAL CHARACTERISTICS

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	CAPACITANCE μF/Km	CHARGING CURRENT A/Km	DIELECTRIC LOSSES W/Km	REACTANCE AT 50 HZ ohm/km	CONDUCTOR S.C.C FOR 1 SEC KA	COPPER SCREEN S.C.C FOR 1 SEC KA	CURRENT RATING A	
									Laid in ground	Laid in free air
50	0.387	0.494	0.316	0.496	11.90	0.113	7.15	1.75	222	231
70	0.268	0.342	0.363	0.571	13.71	0.107	10.01	1.75	273	288
95	0.193	0.247	0.398	0.625	15.00	0.103	13.585	1.75	328	352
120	0.153	0.196	0.435	0.683	16.40	0.099	17.16	1.75	373	407
150	0.124	0.159	0.477	0.75	17.99	0.095	21.45	2.73	419	464
185	0.0991	0.128	0.516	0.812	19.47	0.093	26.455	2.73	474	533
240	0.0754	0.098	0.579	0.911	21.85	0.089	34.32	2.73	550	631
300	0.0601	0.078	0.642	1.009	24.22	0.087	42.9	2.73	626	741
400	0.047	0.062	0.71	1.116	26.79	0.084	57.2	3.82	700	833
500	0.0366	0.049	0.799	1.256	30.14	0.081	71.5	3.82	789	961

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

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.