

## N2XSEY XLPE PVC - 8.7/15 (17.5)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**  $U_o/U$  (Um)  
8.7/15 (17.5)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](http://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®.





## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL SCREEN CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL INSULATION THICKNESS mm	NOMINAL SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A9X15KV3050	3	50	16	4.5	2.6	48.5	3092
A9X15KV3070	3	70	16	4.5	2.7	52.6	3882
A9X15KV3095	3	95	16	4.5	2.8	55.6	4764
A9X15KV3120	3	120	16	4.5	2.9	58.9	5637
A9X15KV3150	3	150	25	4.5	3.1	62.5	6712
A9X15KV3185	3	185	25	4.5	3.2	65.9	7877
A9X15KV3240	3	240	25	4.5	3.3	71.3	9832
A9X15KV3300	3	300	25	4.5	3.5	76.9	11814
A9X15KV3400	3	400	35	4.5	3.7	82.9	14682
A9X15KV3500	3	500	35	4.5	3.9	90.7	18123

## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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	0.257	0.586	20.37	0.120	7.15	1.75	223	236
70	0.268	0.342	0.294	0.67	23.29	0.113	10.01	1.75	273	295
95	0.193	0.247	0.32	0.73	25.39	0.109	13.585	1.75	328	358
120	0.153	0.196	0.349	0.794	27.64	0.105	17.16	1.75	373	413
150	0.124	0.159	0.381	0.868	30.20	0.100	21.45	2.73	419	470
185	0.0991	0.128	0.411	0.937	32.59	0.098	26.455	2.73	474	539
240	0.0754	0.098	0.459	1.047	36.42	0.094	34.32	2.73	550	638
300	0.0601	0.078	0.507	1.156	40.23	0.091	42.9	2.73	628	747
400	0.047	0.062	0.559	1.275	44.35	0.088	57.2	3.82	702	842
500	0.0366	0.049	0.627	1.429	49.74	0.085	71.5	3.82	793	970

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.