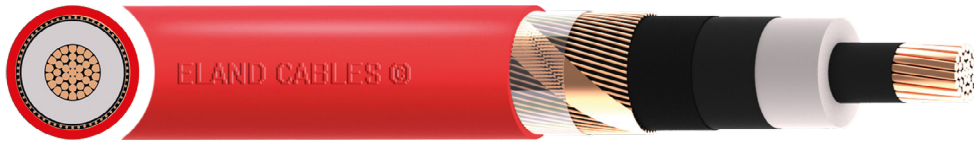


N2XSY XLPE PVC - 18/30 (36)kV Cable



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.

CHARACTERISTICS

Voltage Rating (U₀/U)_m
18/30 (36)kV

Temperature Rating

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

15 x overall diameter

CONSTRUCTION

Conductor

Class 2 Stranded copper conductor

Inner Semi-Conductive Layer

Semi-conductive material (Bonded Type)

Insulation

XLPE (Cross-Linked Polyethylene)

Outer Semi-Conductive Layer

Semi-conductive material (Strippable Type)

Screen

Copper wires with Open Helix Copper Tape Screen

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

● Red ● Black

STANDARDS

IEC 60502-2, EN 60228

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



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
A9X30KV1050	1	50	16	8	2	31.4	1304
A9X30KV1070	1	70	16	8	2	33.2	1550
A9X30KV1095	1	95	16	8	2.1	34.5	1827
A9X30KV1120	1	120	16	8	2.1	35.9	2095
A9X30KV1150	1	150	25	8	2.2	37.9	2506
A9X30KV1185	1	185	25	8	2.2	39.4	2870
A9X30KV1240	1	240	25	8	2.3	42	3501
A9X30KV1300	1	300	25	8	2.4	44.6	4128
A9X30KV1400	1	400	35	8	2.5	47.6	5105
A9X30KV1500	1	500	35	8	2.6	51.2	6167
A9X20KV1630	1	630	35	8	2.7	56.1	7677
A9X20KV1800	1	800	35	8	2.8	60.4	9543

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	0.141	0.799	57.52	0.145	7.15	1.75	234	249
70	0.268	0.342	0.159	0.898	64.62	0.136	10.01	1.75	284	309
95	0.193	0.247	0.171	0.968	69.68	0.131	13.585	1.75	340	382
120	0.153	0.196	0.184	1.043	75.09	0.126	17.16	1.75	386	441
150	0.124	0.159	0.199	1.128	81.23	0.121	21.45	2.73	431	494
185	0.0991	0.128	0.213	1.208	86.95	0.118	26.455	2.73	487	571
240	0.0754	0.098	0.236	1.334	96.06	0.113	34.32	2.73	557	673
300	0.0601	0.078	0.258	1.46	105.11	0.109	42.9	2.73	625	777
400	0.047	0.062	0.282	1.595	114.87	0.105	57.2	3.82	699	887
500	0.0366	0.049	0.313	1.772	127.59	0.101	71.5	3.82	785	1021
630	0.0283	0.039	0.356	2.015	145.11	0.098	90.09	3.82	868	1153
800	0.0221	0.032	0.394	2.227	160.34	0.095	114.4	3.82	947	1299

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.