N2XS2Y XLPE MDPE 8.7/15 (17.5) kV Cable

Eland Product Group: **A9X**

APPLICATION

Medium Voltage MDPE sheathed power distribution cables particularly noted for applications in wind energy installations.

CHARACTERISTICS

Voltage Rating Uo/U (Um)
8.7/15 (17.5)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
20 x overall diameter

CONSTRUCTION

Conductor
Class 2 Stranded Copper

Conductor Screen
Semi-conductive material (Bonded type)

Insulation
XLPE (Cross-Linked Polyethylene)

Insulation Screen
Semi-conductive material (Strippabe type)

Screen
Copper wires with Open Helix Copper Tape Screen

Outer Sheath
MDPE (Medium Density Polyethylene)

Sheath Colour
● Red ● Black

STANDARDS

IEC 60502-2, EN 60228

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 mm²	NOMINAL SCREEN CROSS SECTIONAL AREA mm²	NOMINAL INSULATION THICKNESS mm	NOMINAL SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A9XY15KV01050	1	50	16	4.5	1.7	23.8	904
A9XY10KV1070	1	70	16	4.5	1.8	25.8	1132
A9XY10KV1095	1	95	16	4.5	1.8	27.1	1389
A9XY10KV1120	1	120	16	4.5	1.9	28.7	1647
A9XY10KV1150	1	150	25	4.5	2	30.7	2027
A9XY10KV1185	1	185	25	4.5	2	32.2	2368
A9XY10KV1240	1	240	25	4.5	2.1	34.6	2943
A9XY10KV1300	1	300	25	4.5	2.2	37.2	3522
A9XY10KV1400	1	400	35	4.5	2.3	40.2	4445
A9XY10KV1500	1	500	35	4.5	2.4	43.8	5444
A9XY10KV1630	1	630	35	4.5	2.5	48.7	6869
A9XY10KV1800	1	800	35	4.5	2.6	53	8655

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	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	0.214	0.586	20.37	0.128	7.15	1.75	227	238
70	0.268	0.342	0.245	0.67	23.29	0.121	10.01	1.75	273	300
95	0.193	0.247	0.267	0.73	25.39	0.116	13.585	1.75	325	362
120	0.153	0.196	0.29	0.794	27.64	0.112	17.16	1.75	369	419
150	0.124	0.159	0.317	0.868	30.20	0.108	21.45	2.73	413	474
185	0.0991	0.128	0.343	0.937	32.59	0.105	26.455	2.73	465	545
240	0.0754	0.098	0.383	1.047	36.42	0.101	34.32	2.73	536	645
300	0.0601	0.078	0.423	1.156	40.23	0.097	42.9	2.73	601	744
400	0.047	0.062	0.466	1.275	44.35	0.094	57.2	3.82	673	856
500	0.0366	0.049	0.523	1.429	49.74	0.091	71.5	3.82	758	985
630	0.0283	0.039	0.601	1.643	57.17	0.090	90.09	3.82	840	1118
800	0.0221	0.032	0.669	1.829	63.65	0.087	114.4	3.82	945	1256

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.

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