



# N2XS(F)2Y XLPE MDPE 8.7/15 (17.5)kV Cable



Eland Product Group: A9XF

## APPLICATION

Medium Voltage MDPE power distribution cable with particular application in wind energy installations. Longitudinally sealed cables for aid protection against water ingress.

## CHARACTERISTICS

**Voltage Rating**  $U_0/U$   
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 compacted copper

### Conductor Screen

Semi-conductive material (Bonded type)

### Insulation

XLPE (Cross-linked Polyethylene)

### Insulation Screen

Semi-conductive material (Strippable type)

### Longitudinal Waterblock

Semi-conductive water swelling tape

### Metallic Screen

Copper wires with Open Helix Copper Tape Screen

### Longitudinal Waterblock

Non-conductive water swelling tape

### Sheath

MDPE (Medium Density Polyethylene)

### Sheath Colour

● Black

## STANDARDS

IEC 60502-2, EN 60228

UV Resistant

## THE CABLE LAB<sup>®</sup>

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)



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<sup>®</sup>.



## 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
A9XF15KV1050	1	50	16	4.5	1.7	25.8	939
A9XF15KV1070	1	70	16	4.5	1.8	27.8	1171
A9XF15KV1095	1	95	16	4.5	1.8	29.1	1429
A9XF15KV1120	1	120	16	4.5	1.9	30.7	1689
A9XF15KV1150	1	150	25	4.5	2	32.7	2072
A9XF15KV1185	1	185	25	4.5	2	34.2	2415
A9XF15KV1240	1	240	25	4.5	2.1	36.6	2993
A9XF15KV1300	1	300	25	4.5	2.2	39.2	3575
A9XF15KV1400	1	400	35	4.5	2.3	42.2	4502
A9XF15KV1500	1	500	35	4.5	2.4	45.8	5505
A9XF15KV1630	1	630	35	4.5	2.5	50.7	6936
A9XY15KV1800	1	800	35	4.5	2.6	55	8728

## 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 duct	Laid in free air
50	0.387	0.494	0.214	0.586	20.37	0.133	7.15	1.75	230	172	229
70	0.268	0.342	0.245	0.67	23.29	0.125	10.01	1.75	277	213	289
95	0.193	0.247	0.267	0.73	25.39	0.120	13.585	1.75	330	255	348
120	0.153	0.196	0.29	0.794	27.64	0.116	17.16	1.75	374	295	403
150	0.124	0.159	0.317	0.868	30.20	0.112	21.45	2.73	418	333	456
185	0.0991	0.128	0.343	0.937	32.59	0.109	26.455	2.73	472	387	525
240	0.0754	0.098	0.383	1.047	36.42	0.104	34.32	2.73	532	445	621
300	0.0601	0.078	0.423	1.156	40.23	0.101	42.9	2.73	596	509	716
400	0.047	0.062	0.466	1.275	44.35	0.097	57.2	3.82	668	580	824
500	0.0366	0.049	0.523	1.429	49.74	0.094	71.5	3.82	752	661	948
630	0.0283	0.039	0.601	1.643	57.17	0.092	90.09	3.82	834	750	1076
800	0.0221	0.032	0.669	1.829	63.65	0.089	114.4	3.82	910	840	1209

Laying conditions at trefoil formation are as below:

- Soil thermal resistivity 100 °C.Cm/Watt
- Burial depth 0.8 m
- Ground temperature 20 °C
- Air temperature 30 °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.