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

Eland Product Group: A9X

APPLICATION

Medium voltage power cables for distribution networks and generation units, suitable for external installation including direct in ground and in buried cable ducts. UV Resistant.

CHARACTERISTICS

Voltage Rating Uo/U
8.7/15 (17.5)kV

Temperature Rating
Maximum Conductor Operating Temperature: 90°C
Maximum Screen Operating Temperature: 80°C
Maximum Conductor Temperature During S.C.: 250°C

Minimum Bending Radius
20 x Outer Diameter

CONSTRUCTION

Conductor
Class 2 Stranded Circular Compacted Copper

Inner Semi Conductor
Extruded Inner Semi Conductor (Bonded Type)

Insulation
XLPE (Cross-Linked Polyethylene) 90°C

Outer Semi Conductor
Extruded Outer Semi Conductor (Strippable Type)

Semi Conductive Water Blocking Tape

Screen
Copper Wires and Open Helix Copper Tape

Non-Conductive Water Blocking Tape

Tape
Aluminium Tape

Outer Sheath
MDPE (Medium Density Polyethylene)

Sheath Colour
● Red ● Black

STANDARDS

IEC 60502-2, IEC 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.

ISO/IEC 17025 Accredited Testing Laboratory
IECEE CBTL Accredited Testing Laboratory

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®.

RoHS REACH

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
A9XFL15KV1050	1	50	16	4.5	1.7	26.6	1008
A9XFL15KV1070	1	70	16	4.5	1.8	28.6	1243
A9XFL15KV1095	1	95	16	4.5	1.8	29.9	1505
A9XFL15KV1120	1	120	16	4.5	1.9	31.5	1768
A9XF 15KV1150	1	150	25	4.5	2	33.5	2155
A9XFL15KV1185	1	185	25	4.5	2	35	2501
A9XFL15KV1240	1	240	25	4.5	2.1	37.4	3086
A9XF15KV1300	1	300	25	4.5	2.2	40	3675
A9XFL15KV1400	1	400	35	4.5	2.3	43	4609
A9XFL15KV1500	1	500	35	4.5	2.4	46.6	5619
A9XFL15KV1630	1	630	35	4.5	2.5	51.5	7060
A9XFL15KV1800	1	800	35	4.5	2.6	55.8	8863

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	0.135	7.15	1.75	210	221
70	0.268	0.342	0.245	0.67	23.29	0.127	10.01	1.75	254	278
95	0.193	0.247	0.267	0.73	25.39	0.122	13.585	1.75	302	336
120	0.153	0.196	0.29	0.794	27.64	0.118	17.16	1.75	342	389
150	0.124	0.159	0.317	0.868	30.20	0.114	21.45	2.73	383	440
185	0.0991	0.128	0.343	0.937	32.59	0.110	26.455	2.73	432	506
240	0.0754	0.098	0.383	1.047	36.42	0.105	34.32	2.73	497	599
300	0.0601	0.078	0.423	1.156	40.23	0.102	42.9	2.73	558	690
400	0.047	0.062	0.466	1.275	44.35	0.098	57.2	3.82	625	794
500	0.0366	0.049	0.523	1.429	49.74	0.095	71.5	3.82	703	914
630	0.0283	0.039	0.601	1.643	57.17	0.093	90.09	3.82	780	1037
800	0.0221	0.032	0.669	1.829	63.65	0.090	114.4	3.82	850	1166

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