



FR-N20XA8E-AR Triplex 18/30kV Cable

NF C 33-226 - AL/XLPE/MDPE



Eland Product Group: A9X

CHARACTERISTICS

Voltage Rating U_0/U
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
20 x overall diameter

CONSTRUCTION

Conductor
Class 2 stranded Aluminium

Conductor Screen
Extruded Inner Semi Conductor (Bonded Type)

Insulation
XLPE (Cross-Linked Polyethylene)

Insulation Screen
Extruded Inner Semi Conductor (Strippable Type)

Waterblocking
Semi Conductive Longitudinal Waterblocking Tape

Aluminium Tape
Applied Longitudinally

Sheath
MDPE (Medium Density Polyethylene)

Sheath Colour
● Black

STANDARDS

NF C 33-226, IEC 60502-2, EN 60228
Halogen free to IEC/EN 60754-1
Water resistant to AD7
UV resistant to ISO 4892

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 CONDUCTOR SCREEN THICKNESS mm	NOMINAL INSULATION THICKNESS mm	NOMINAL INSULATION SCREEN THICKNESS mm	NOMINAL SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A9XANF30KV31050	3x1	50	18	0.6	6.7	0.7	1.9	66.1	2469
A9XANF30KV31070	3x1	70	20	0.6	6.7	0.7	1.9	69.6	2829
A9XANF30KV31095	3x1	95	21	0.6	6.7	0.7	2	73.2	3203
A9XANF30KV31120	3x1	120	22	0.6	6.7	0.7	2.1	76.7	3602
A9XANF30KV31150	3x1	150	23	0.6	6.7	0.7	2.1	81.4	4064
A9XANF30KV31185	3x1	185	24	0.6	6.7	0.7	2.2	83.8	4459
A9XANF30KV31240	3x1	240	25	0.6	6.7	0.7	2.2	89	5166
A9XANF30KV31300	3x1	300	27	0.6	6.7	0.7	2.3	94.6	5965
A9XANF30KV31400	3x1	400	29	0.6	6.7	0.7	2.4	100.4	7063

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	SCREEN S.C.C FOR 1 SEC KA	CURRENT RATING A	
									Laid in ground	Laid in free air
50	0.641	0.822	0.157	0.887	63.85	0.192	4.72	1.3	175	187
70	0.443	0.5682	0.174	0.986	71.01	0.184	6.61	1.44	216	231
95	0.32	0.4106	0.191	1.079	77.65	0.178	8.98	1.52	258	279
120	0.253	0.3248	0.206	1.164	83.81	0.174	11.34	1.59	297	322
150	0.206	0.2646	0.229	1.297	93.42	0.167	14.17	1.66	329	367
185	0.164	0.2109	0.239	1.352	97.33	0.165	17.48	1.73	377	420
240	0.125	0.1612	0.264	1.496	107.72	0.160	22.68	1.8	426	497
300	0.1	0.1295	0.29	1.64	118.07	0.155	28.35	1.95	479	572
400	0.0778	0.1014	0.316	1.789	128.81	0.152	37.79	2.09	551	664

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.