

# FR-N20XA8E-AR NF-C33-226 AI/XLPE/PE 20kV Cable



Eland Product Group: B8A

## APPLICATION

These cables are suitable for MV power applications, particularly for connections in transformer stations and power stations, between aerial lines and transformer stations, and for automotive electric powertrain.

## CHARACTERISTICS

### Voltage Rating

12/20 (24kV)

### Temperature Rating

Operating temperature: +90°C

Short Circuit: +250 °C

### Minimum Bending Radius

**Single core:** 13 x overall diameter

During Installation: 26 x overall diameter

**Multicore:** 6 x overall diameter

During Installation: 12 x overall diameter

## CONSTRUCTION

### Conductor

Class 2 Aluminium stranded wire

### Conductor Screen

Semi-conductive XLPE (Cross-linked Polyethylene) bonded to conductor

### Insulation

XLPE (Cross-linked polyethylene)

### Insulation Screen

Grooved peelable semi-conducting XLPE (Cross-linked Polyethylene)

### Tightness powder in the grooves

### Screen

Al/PET (Aluminium foil tape)

### Outer Sheath

PE (Polyethylene)

### Sheath Colour

● red (for underground connections)

or ● grey (aerial, above/underground or technical connections)

or ● black striped.

## STANDARDS

IEC 60228, NFC 32-070, NF C 32 013, NF C 33-226, HD 620, UTE C 33-226

Flame retardant NFC 32-070 cat. C2 (grey and black striped outer sheaths only)

## 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)



## REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, 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 OVERALL DIAMETER mm	MAXIMUM TENSILE STRENGTH daN	NOMINAL WEIGHT kg/km
B8A20KV01050**	1	50	29.0	150	700
B8A20KV01095**	1	95	32.0	285	950
B8A20KV01150**	1	150	32.0	450	1000
B8A20KV01240**	1	240	36.5	720	1400
B8A20KV01400**	1	400	42.0	1200	1950
B8A20KV01630**	1	630	52.5	1890	3100
B8A20KV011200**	1	1200	66.0	3600	5200
B8A20KV3T050**	3 (trefoil)	50	62.5	450	2100
B8A20KV3T095**	3 (trefoil)	95	69.0	855	2800
B8A20KV3T150**	3 (trefoil)	150	69.0	1350	3050
B8A20KV3T240**	3 (trefoil)	240	78.5	2160	4150
B8A20KV3T400**	3 (trefoil)	400	90.0	3600	5800

\* replace with colour code – RD (red), GR (grey) and Black (BK)

## ELECTRICAL CHARACTERISTICS`

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C mΩ/m	PERMISSIBLE CURRENT RATING A			
			Buried at 20°C	Buried at 30°C	free air at 20°C	Free air at 30°C
1	50	0.641	205	165	207	190
1	95	0.320	300	245	310	285
1	150	0.206	380	310	405	370
1	240	0.125	500	405	555	505
1	400	0.078	645	520	745	680
1	630	0.047	830	670	1010	920
1	1200	0.025	1130	910	1465	1340