

# N2XS(F)2Y XLPE PE - 6/10 (12)kV Cable



Eland Product Group: **A9X**

## APPLICATION

Medium voltage cables for distribution networks; also for connection to generation units and plant and process connection. To be laid directly in ground, outdoors, indoors and in cable ducts. This cable is longitudinally water tight preventing water propagation along the cable.

## CONSTRUCTION

### Conductor

Class 2 stranded copper conductor according to BS EN 60228 (previously BS 6360)

### Inner Semi-Conductive Layer

Semi-conductive material

### Insulation

XLPE (Cross-Linked Polyethylene)

### Outer Semi-Conductive Layer

Semi-conductive material

### Screen

Copper wires and copper tape

### Tape 1

Swellable tape

### Sheath

PE (Polyethylene)

## CABLE STANDARDS

DIN VDE 0276-620, HD 620 S1, DIN EN 60228,



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

## CHARACTERISTICS

### Voltage Rating (U<sub>0</sub>/U)<sub>m</sub>

6/10 (12)kV

### Test Voltage

21kV

### Temperature Rating

-20°C to +90°C

### Short Circuit Temperature

+250°C

### Minimum bending Radius

15 x overall diameter

### Sheath Colour

● Black

## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		MAXIMUM OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
		Conductor mm <sup>2</sup>	Copper Wire Screen mm <sup>2</sup>		
A9XF10KV1035	1	35	RM/16	28	820
A9XF10KV1050	1	50	RM/16	29	960
A9XF10KV1070	1	70	RM/16	31	1150
A9XF10KV1095	1	95	RM/16	32	1450
A9XF10KV1120	1	120	RM/16	34	1700
A9XF10KV1150	1	150	RM/25	35	2000
A9XF10KV1185	1	185	RM/25	37	2350
A9XF10KV1240	1	240	RM/25	39	2900
A9XF10KV1300	1	300	RM/25	41	3550
A9XF10KV1400	1	400	RM/35	45	4500
A9XF10KV1500	1	500	RM/35	48	5550
A9XF10KV1630	1	630	RM/37	49	7014

## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA		CURRENT CARRYING CAPACITY	
Conductor mm <sup>2</sup>	Copper Wire Screen mm <sup>2</sup>	In Trefoil	
		In Ground Amps	In Air Amps
35	RM/16	187	197
50	RM/16	220	236
70	RM/16	269	292
95	RM/16	320	358
120	RM/16	363	413
150	RM/25	405	468
185	RM/25	456	535
240	RM/25	526	631
300	RM/25	591	722
400	RM/35	662	827
500	RM/35	744	949
630	RM/37	820	1090