

# N2XS(F)2Y XLPE PE - 12/20 (24)kV Cable



Eland Product Group: **A9X**

## APPLICATION

Medium voltage cables for distribution networks; also for connection to generation units and plant and process connection. For installation in ground, in water outdoors, indoors and in cable ducts for power stations, industry, and distribution networks.

## 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

Water-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>

12/20 (24)kV

### Test Voltage

42kV

### 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>		
A9XF20KV1035	1	35	RM/16	32	1000
A9XF20KV1050	1	50	RM/16	33	1150
A9XF20KV1070	1	70	RM/16	35	1350
A9XF20KV1095	1	95	RM/16	36	1600
A9XF20KV1120	1	120	RM/16	38	1850
A9XF20KV1150	1	150	RM/25	39	2250
A9XF20KV1185	1	185	RM/25	41	2600
A9XF20KV1240	1	240	RM/25	44	3150
A9XF20KV1300	1	300	RM/25	46	3800
A9XF20KV1400	1	400	RM/35	49	4750
A9XF20KV1500	1	500	RM/35	52	5800

## 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	189	200
50	RM/16	222	239
70	RM/16	271	297
95	RM/16	323	361
120	RM/16	367	416
150	RM/25	409	470
185	RM/25	461	538
240	RM/25	532	634
300	RM/25	599	724
400	RM/35	671	829
500	RM/35	754	953