

N2XSy XLPE PVC - 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. To be laid directly in ground, outdoors, indoors and in cable ducts.

CONSTRUCTION

Conductor

Stranded copper conductor

Inner Semi-Conductive Layer

Semi-conductive material

Insulation

XLPE (Cross-Linked Polyethylene)

Outer Semi-Conductive Layer

Semi-conductive material

Screen

Copper wires

Sheath

PVC (Polyvinyl Chloride)

CABLE STANDARDS

DIN VDE 0276-620, HD 620 S1, DIN/BS EN 60228, BS EN/IEC 60332-1-2



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_o/U)(U_m)

12/20 (24)kV

Test Voltage

42kV

Temperature Rating

Fixed: -20°C to +70°C

Flexed: -5°C to +70°C

Short Circuit Temperature

+250°C

Minimum Bending Radius

15 x overall diameter

Sheath Colour

● Red

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		MINIMUM OVERALL DIAMETER mm	MAXIMUM OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
		Conductor mm ²	Copper Wire Screen mm ²			
A9X20KV1035	1	35	RM/16	27	32	1100
A9X20KV1050	1	50	RM/16	28	33	1250
A9X20KV1070	1	70	RM/16	30	35	1450
A9X20KV1095	1	95	RM/16	31	36	1750
A9X20KV1120	1	120	RM/16	33	38	2050
A9X20KV1150	1	150	RM/25	34	39	2400
A9X20KV1185	1	185	RM/25	36	41	2800
A9X20KV1240	1	240	RM/25	39	44	3400
A9X20KV1300	1	300	RM/25	41	46	4000
A9X20KV1400	1	400	RM/35	44	49	4950
A9X20KV1500	1	500	RM/35	47	52	6050

* trefoil touching arrangement

ELECTRICAL CHARACTERISTICS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		CURRENT CARRYING CAPACITY	
		Conductor mm ²	Copper Wire Screen mm ²	In Ground Amps	In Air Amps
A9X20KV1035	1	35	RM/16	189	200
A9X20KV1050	1	50	RM/16	222	239
A9X20KV1070	1	70	RM/16	271	297
A9X20KV1095	1	95	RM/16	323	361
A9X20KV1120	1	120	RM/16	367	416
A9X20KV1150	1	150	RM/25	409	470
A9X20KV1185	1	185	RM/25	461	538
A9X20KV1240	1	240	RM/25	532	634
A9X20KV1300	1	300	RM/25	599	724
A9X20KV1400	1	400	RM/35	671	829
A9X20KV1500	1	500	RM/35	754	953

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.