

N2XS2Y 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. For installation in ground, in water outdoors, indoors and in cable ducts for power stations, industry, and distribution networks.

CABLE STANDARDS

DIN VDE 0276-620, HD 620 S1, DIN 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.

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

Sheath

PE (Polyethylene)

CHARACTERISTICS

Voltage Rating (U₀/U)(U_m)

6/10 (12)kV

Test Voltage

21kV

Temperature Rating

Fixed: -20°C to +90°C

Flexed: -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 ²	Copper Wire Screen mm ²		
A9XY10KV1035	1	35	RM/16	28	820
A9XY10KV1050	1	50	RM/16	29	960
A9XY10KV1070	1	70	RM/16	31	1150
A9XY10KV1095	1	95	RM/16	32	1450
A9XY10KV1120	1	120	RM/16	34	1700
A9XY10KV1150	1	150	RM/25	35	2000
A9XY10KV1185	1	185	RM/25	37	2350
A9XY10KV1240	1	240	RM/25	39	2900
A9XY10KV1300	1	300	RM/25	41	3550
A9XY10KV1400	1	400	RM/35	45	4500
A9XY10KV1500	1	500	RM/35	48	5550

ELECTRICAL CHARACTERISTICS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		CURRENT CARRYING CAPACITY	
				In Trefoil	
		Conductor mm ²	Copper Wire Screen mm ²	In Ground Amps	In Air Amps
A9XY10KV1035	1	35	RM/16	187	197
A9XY10KV1050	1	50	RM/16	220	236
A9XY10KV1070	1	70	RM/16	269	292
A9XY10KV1095	1	95	RM/16	320	358
A9XY10KV1120	1	120	RM/16	363	413
A9XY10KV1150	1	150	RM/25	405	468
A9XY10KV1185	1	185	RM/25	456	535
A9XY10KV1240	1	240	RM/25	526	631
A9XY10KV1300	1	300	RM/25	591	722
A9XY10KV1400	1	400	RM/35	662	827
A9XY10KV1500	1	500	RM/35	744	949