

# NA2XRY Aluminium Conductor IEC 60502-1 XLPE SWA PVC 0.6/1kV Cable



Eland Product Group: **A9N**

## APPLICATION

Can be used in underground installations since the cable is very suitable for mechanical compulsion and harsh operating conditions. Suitable for comparatively high ambient temperature due to high maximum permissible conductor temperature.

## CONSTRUCTION

### Conductor

Class 2 stranded aluminium conductor

### Insulation

XLPE (Cross-Linked Polyethylene)

### Filler

PVC (Polyvinyl Chloride)

### Armour

Galvanized round steel wire

### Sheath

PVC (Polyvinyl Chloride)

## CABLE STANDARDS

TS IEC 60502-1, BS EN/IEC 60332-1



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>o</sub>/U)

600/1000V

### Test Voltage

3.5kV

### Minimum Bending Radius

15 x overall diameter

### Maximum Operating Temperature

+90°C

### Maximum Short Circuit Temperature

+250°C

### Sheath Colour

● Black

## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A9NA2XRY0225	2	25	25	1270
A9NA2XRY0325	3	25	25.6	1325
A9NA2XRY0335	3	35	28.2	1592
A9NA2XRY0350	3	50	34.6	2381
A9NA2XRY0370	3	70	36.5	2679
A9NA2XRY0395	3	95	41.8	3640
A9NA2XRY03120	3	120	49	4736
A9NA2XRY0325RE	3	25/16	27.8	1487
A9NA2XRY0335RE	3	35/16	30.4	1722
A9NA2XRY0350RE	3	50/25	35.8	2440
A9NA2XRY0370RE	3	70/35	39.8	2950
A9NA2XRY0395RE	3	95/50	45.9	4033
A9NA2XRY03240RE	3	240/120	66.6	8162
A9NA2XRY03300RE	3	300/150	72.2	9318
A9NA2XRY0425	4	25	29.1	1643
A9NA2XRY0435	4	35	32.2	1970
A9NA2XRY0450	4	50	37.7	2754
A9NA2XRY0470	4	70	43	3696
A9NA2XRY0495	4	95	48.2	4546
A9NA2XRY04120	4	120	52.2	5264
A9NA2XRY04150	4	150	57.7	6289
A9NA2XRY04185	4	185	66.9	8596
A9NA2XRY04240	4	240	74	10334
A9NA2XRY0516	5	16	26.1	1373
A9NA2XRY0525	5	25	30.3	1802
A9NA2XRY0535	5	35	34.5	2415
A9NA2XRY0550	5	50	39.9	3330
A9NA2XRY0570	5	70	45.1	4124
A9NA2XRY0595	5	95	50.9	5198

## CONDUCTORS

Class 2 Stranded Conductor for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km
16	1.91
25	1.2
35	0.868
50	0.641
70	0.443
95	0.32
120	0.253
95	0.32
150	0.206
185	0.164
240	0.125

## ELECTRICAL CHARACTERISTICS

### Current Carrying Capacity

NOMINAL GROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY	
	In Ground Amps	In Air Amps
16	76	77
25	90	97
35	112	120
50	136	146
70	174	187
95	211	227
120	245	263
150	283	304
185	323	347
240	382	409

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.