NA2XRH Aluminium Conductor IEC 60502-1 XLPE SWA HFFR 0.6/1kV Cable

Eland Product Group: **A9N**

APPLICATION

Used in refineries, hotels, schools, tunnels, high constructions, hospitals, power plants, data processing centers, populated business centers where there is a risk of fire.

CONSTRUCTION

Conductor
Class 2 stranded aluminium conductor

Insulation
XLPE (Cross-Linked Polyethylene)

Filler
HFFR (Halogen Free Flame Retardant)

Armour
Galvanized round steel wire

Sheath
HFFR (Halogen Free Flame Retardant)

CABLE STANDARDS

TS IEC 60502-1, VDE 0276, IEC 60754, BS EN 50267, BS EN/IEC 61034, BS EN/IEC 60332-3-24

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 (Uo/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

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DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A9NA2XRH0425	4	25	29.1	1643
A9NA2XRH0435	4	35	32.2	1970
A9NA2XRH0450	4	50	37.7	2754
A9NA2XRH0470	4	70	43	3696
A9NA2XRH0495	4	95	48.2	4546
A9NA2XRH04120	4	120	52.2	5264
A9NA2XRH04150	4	150	57.7	6289
A9NA2XRH04185	4	185	66.9	8596
A9NA2XRH04240	4	240	74	10334
A9NA2XRH0516	5	16	25.3	1314
A9NA2XRH0525	5	25	31.9	1923
A9NA2XRH0535	5	35	36.1	2547
A9NA2XRH0550	5	50	42.3	3576
A9NA2XRH0570	5	70	47.5	4388
A9NA2XRH0595	5	95	54.1	5575

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm²	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
150	0.206
185	0.164
240	0.125
16	1.94
25	1.2
35	0.868
50	0.641
70	0.443
95	0.32

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ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	CURRENT CARRYING CAPACITY	
	In Ground Amps	In Air Amps
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
16	90	77
25	112	97
35	136	120
50	174	146
70	211	187
95	245	227

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