

**ELAND**<sup>®</sup>  
CABLES

## NSGAFÖU 1.8/3kV Rubber Cable



Eland Product Group: A5N

### APPLICATION

Single core cable for use in switch cabinets, wiring of devices, trains and buses. Suitable for laying in dry rooms.

### CHARACTERISTICS

**Voltage Rating** U<sub>o</sub>/U  
1.8/3kV

**Temperature Rating**  
Fixed: -40°C to +90°C  
Flexed: -25°C to +90°C

**Minimum Bending Radius**  
Fixed: 4 x overall diameter  
Flexed: 5 x overall diameter

### CONSTRUCTION

**Conductor**  
Class 5 flexible tinned copper conductor

**Insulation**  
EPR (Ethylene Propylene Rubber)

**Sheath**  
PCP (Polychloroprene)

**Sheath Colour**  
● Black

### STANDARDS

VDE 0250

Flame retardant according to BS EN / IEC 60332-1-2



### ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



### REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.



## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5NBK0015	1	1.5	1.3	0.8	6.3	51
A5NBK0025	1	2.5	1.3	0.8	6.7	63
A5NBK0040	1	4	1.3	0.8	7.4	82
A5NBK0060	1	6	1.3	0.8	7.9	103
A5NBK010	1	10	1.5	0.8	9.5	159
A5NBK016	1	16	1.5	0.8	10.5	219
A5NBK025	1	25	1.6	1	12.8	335
A5NBK035	1	35	1.6	1	14.1	435
A5NBK050	1	50	1.8	1	15.9	582
A5NBK070	1	70	1.8	1	17.8	757
A5NBK095	1	95	2.2	1	20.1	1040
A5NBK120	1	120	2.2	1	22	1289
A5NBK150	1	150	2.2	1.2	24	1581
A5NBK185	1	185	2.4	1.2	26.3	1895
A5NBK240	1	240	2.6	1.2	29.6	2452
A5NBK300	1	300	2.8	1.2	32.2	2998
A5NBK400	1	400	3.1	1.4	40.5	4200
A5NBK500	1	500	3.4	1.6	42.0	5500

## CONDUCTORS

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
		Metal-Coated Wires
1.5	0.26	13.7
2.5	0.26	8.21
4	0.31	5.09
6	0.31	3.39
10	0.41	1.95
16	0.41	1.24
25	0.41	0.795
35	0.41	0.565
50	0.41	0.393
70	0.51	0.277
95	0.51	0.21
120	0.51	0.164
150	0.51	0.132
185	0.51	0.108
240	0.51	0.0817
300	0.51	0.0654
400	0.51	0.0486
500	0.61	0.0384

The above table is in accordance with BS EN 60228 (previously BS 6360)

## ELECTRICAL CHARACTERISTICS

### Current Carrying Capacity

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY Amps	
	In Air	In Conduit
1.5	30	15
2.5	41	21
4	55	29
6	70	37
10	98	52
16	132	70
25	176	93
35	218	115
50	276	146
70	347	185
95	416	221
120	488	259
150	566	301
185	644	342
240	775	412
300	898	467
400	1060	557
500	1250	662

For ambient temperature of 30°C and conductor heated at 90°C

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.