

NSGAFÖU 1.8/3kV Rubber Cable



Eland Product Group: **A5N**

APPLICATION

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

CONSTRUCTION

Conductor

Class 5 flexible tinned copper conductor

Insulation

EPR (Ethylene Propylene Rubber) Type 3G13 according to DIN VDE 0207

Sheath

PCP (Polychloroprene) Type 5GM5 according to DIN VDE 0207

CABLE STANDARDS

VDE0250, 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_o/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

Sheath Colour

● Black

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF SHEATH mm	OVERALL DIAMETER mm		NOMINAL WEIGHT kg/km
					Minimum	Maximum	
A5NBK0015	1	1.5	1.3	0.8	5.5	7	51
A5NBK0025	1	2.5	1.3	0.8	5.9	7.5	63
A5NBK0040	1	4	1.3	0.8	6.4	8	82
A5NBK0060	1	6	1.3	0.8	7	8.6	103
A5NBK010	1	10	1.5	0.8	8.2	10	159
A5NBK016	1	16	1.5	0.8	9.2	11.1	219
A5NBK025	1	25	1.6	1	11.3	13.4	335
A5NBK035	1	35	1.6	1	12.5	14.6	435
A5NBK050	1	50	1.8	1	14.1	16.4	582
A5NBK070	1	70	1.8	1	15.9	18.3	757
A5NBK095	1	95	2.2	1	18.2	20.8	1040
A5NBK120	1	120	2.2	1	19.6	22.4	1289
A5NBK150	1	150	2.2	1.2	21.7	24.7	1581
A5NBK185	1	185	2.4	1.2	23.6	26.7	1895
A5NBK240	1	240	2.6	1.2	26.3	29.7	2452
A5NBK300	1	300	2.8	1.2	29.3	32.9	2998
A5NBK400	1	400	3.1	1.4	32.5	36.4	4200
A5NBK500	1	500	3.4	1.6	36.5	40.7	5500

CONDUCTORS

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

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C	
		Metal-Coated Wires ohms/km	
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 ²	CURRENT CARRYING CAPACITY	
	In Air Amps	In Conduit Amps
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