

NSGAFÖU 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.

Standards

DIN VDE 0250-602

Technical Data

Conductor

Class 5 flexible tinned copper conductors to BS EN 60228:2005 (previously BS6360)

Voltage Rating

1800/3000V

Insulation

EPR (Ethylene Propylene Rubber) Type 3G13

Temperature Rating

-30°C to +85°C

Sheath

PCP (Polychloroprene) Type 5GM3

Minimum Bending Radius

4 x overall diameter

Sheath Colour

Black

Dimensions

Eland Part Number	No. of Cores x Nominal Cross Sectional Area # x mm ²	Nominal Thickness of Insulation mm	Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/Km
A5NBK0015	1 x 1.5	1.3	0.8	6.3	53
A5NBK0025	1 x 2.5	1.3	0.8	6.7	66
A5NBK0040	1 x 4.0	1.3	0.8	7.4	83
A5NBK0060	1 x 6.0	1.3	0.8	7.9	105
A5NBK010	1 x 10.0	1.5	0.8	9.5	165
A5NBK016	1 x 16.0	1.5	0.8	10.5	225
A5NBK025	1 x 25.0	1.8	1.0	12.8	350
A5NBK035	1 x 35.0	1.8	1.0	14.1	450
A5NBK050	1 x 50.0	1.8	1.0	15.9	615
A5NBK070	1 x 70.0	1.8	1.0	17.8	815
A5NBK095	1 x 95.0	2.2	1.0	20.1	1060
A5NBK120	1 x 120.0	2.2	1.0	22.0	1340
A5NBK150	1 x 150.0	2.2	1.2	24.0	1575
A5NBK185	1 x 185.0	2.4	1.2	26.3	1900
A5NBK240	1 x 240.0	2.6	1.2	29.6	2550
A5NBK300	1 x 300.0	2.8	1.2	32.2	3085

Conductors

Class 5 flexible Copper Conductors for Single Core and Multi-Core cables

1 Nominal Cross Sectional Area mm ²	2 Maximum Diameter of Wires in Conductor mm	4 Maximum Resistance of Conductor at 20°C
		Metal-Coated Wires ohms/Km
1.50	0.26	13.7000
2.50	0.26	8.2100
4.00	0.31	5.0900
6.00	0.31	3.3900
10.00	0.41	1.9500
16.00	0.41	1.2400
25.00	0.41	0.7950
35.00	0.41	0.5650
50.00	0.41	0.3930
70.00	0.51	0.2770
95.00	0.51	0.2100
120.00	0.51	0.1640
150.00	0.51	0.1320
185.00	0.51	0.1080
240.00	0.51	0.0817
300.00	0.51	0.0654

Table in accordance with BS EN 60228:2005 (previously BS6360)

Electrical Characteristics

Current Carrying Capacity (amperes) and Resistance Values (ohms per kilometre)

Nominal Cross Sectional Area mm ²	Current Carrying Capacity		Voltage Drop mV/A/m		
	In Air Amps	In Conduit Amps	Direct Current	Alternate Current	
				Monophase	Three Phase
1.5	30	15	33.900	27.29	23.64
2.5	41	21	20.340	16.43	14.23
4.0	55	29	12.620	10.24	8.87
6.0	70	37	8.400	6.86	5.94
10.0	98	52	4.860	4.01	3.48
16.0	132	70	3.080	2.58	2.24
25.0	176	93	1.980	1.70	1.47
35.0	218	115	4.420	1.24	1.08
50.0	276	146	0.980	0.90	0.78
70.0	347	185	0.680	0.66	0.57
95.0	416	221	0.520	0.53	0.46
120.0	488	259	0.400	0.43	0.37
150.0	566	301	0.320	0.37	0.35
185.0	644	342	0.260	0.32	0.28
240.0	775	412	0.204	0.26	0.23
300.0	879	467	0.147	0.22	0.19

For ambient temperature of 20°C and conductor heated at 90°C

The information contained within this datasheet is for guidance only. When selecting accessories such as cleats, glands, etc please note that actual cable dimensions may vary due to manufacturing tolerances.