

NSGAFÖU 1.8/3kV Rubber Cable



Application

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

Standards

VDE 0250

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

Characteristics

Voltage Rating U/U₀
1.8/3kV

Test Voltage
2.5kV

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 copper conductor

Insulation
EPR (Ethylene Propylene Rubber)

Sheath
PCP (Polychloroprene)

Sheath Colour
Black



Dimensions

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
1	1.5	1.3	0.8	6.3	51
1	2.5	1.3	0.8	6.7	63
1	4	1.3	0.8	7.4	82
1	6	1.3	0.8	7.9	103
1	10	1.5	0.8	9.5	159
1	16	1.5	0.8	10.5	219
1	25	1.6	1	12.8	335
1	35	1.6	1	14.1	435
1	50	1.8	1	15.9	582
1	70	1.8	1	17.8	757
1	95	2.2	1	20.1	1040
1	120	2.2	1	22	1289
1	150	2.2	1.2	24	1581
1	185	2.4	1.2	26.3	1895
1	240	2.6	1.2	29.6	2452
1	300	2.8	1.2	32.2	2998
1	400	3.1	1.4	40.5	4200
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 ²	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

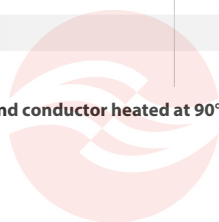
The above table is in accordance with EN 60228

Electrical Characteristics

Current Carrying Capacity

NOMINAL CROSS SECTIONAL AREA mm ²	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



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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.