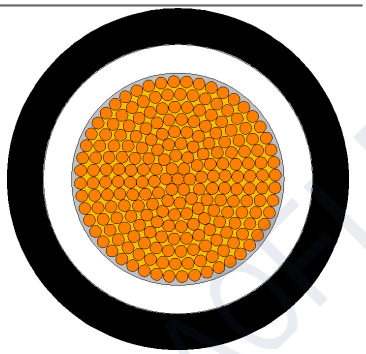
NSGAFÖU

1.8/3 kV rubber single core cable

Single core flexible rubber cable for dry-room installation in switch cabinets, device wiring, trains and buses.



APPLICATION

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

CONSTRUCTION

Component	Description
Conductor	Class 5 flexible tinned copper conductor
Insulation	EPR (Ethylene Propylene Rubber)
Sheath	PCP (Polychloroprene)
Sheath colour	Black

CHARACTERISTICS

Property	Value
Voltage rating Uo/U	1.8/3 kV
Temperature rating, fixed	-40 deg C to +90 deg C
Temperature rating, flexed	-25 deg C to +90 deg C
Minimum bending radius, fixed	4 x overall diameter
Minimum bending radius, flexed	5 x overall diameter

STANDARDS

Standard	Description
VDE 0250	Cable construction standard
IEC/EN 60332-1-2	Flame retardant test

TECHNICAL DATA

DIMENSIONS

No. cores	Cross-section (mm2)	Insulation thickness (mm)	Sheath thickness (mm)	OD (mm)	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.

Cross-section (mm2)	Max wire diameter (mm)	Max conductor resistance at 20 deg C, metal-coated wires (Ohm/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 EN 60228.

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ELECTRICAL DATA

CURRENT CARRYING CAPACITY

Cross-section (mm2)	In air (A)	In conduit (A)
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 deg C and conductor heated at 90 deg C.

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CERTIFICATIONS

TEBAOFLEX CABLE