



# NSGAFÖU 1,8/3 kV

Flexible single-conductor rubber cable with 1.8/3 kV rated voltage



**Info**

- Public transport
- Control panel internal wiring

### Benefits

- Arrangements made of single-conductor cables NSGAFÖU in accordance with VDE 0250 Part 602 with nominal voltage of at least U<sub>0</sub>/U: 1.8/3 kV can be used for short circuit-proof and short-to-ground-proof installation up to 1000 V in acc. with VDE 0100 Part 520 and VDE 0298 Part 3

### Application range

- Wiring of machines, tools, devices, appliances and control cabinets
- Railway vehicles, buses; short-circuit-proof up to 1000 V in switching stations and power distributors
- No direct burial, except of lead-through through fire separations such as sand cups
- In ducts, tubes, pipes, conduits and closed installation channels
- Bundled or for connection of movable parts

### Product features

- Flame-retardant according IEC 60332-1-2
- Oil-resistant according to EN 60811-404
- Normative rated voltage classes U<sub>0</sub>/U 0.6/1 kVAc and 3.6/6 kVAc available on request
- The outer diameters stated in the part number table are maximum values

### Norm references / Approvals

- <VDE> NSGAFÖU 1,8/3 kV cable type approval according to VDE 0250-602

### Product Make-up

- Fine-wire strand made of tinned-copper wires
- Core insulation: rubber compound, type 3GI3
- Outer coating: rubber compound, type 5GM3
- No outer sheath

### Technical data

- Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000993  
ETIM 5.0/6.0 Class-Description: Single core cable
- Conductor stranding**  
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
- Minimum bending radius**  
Flexible use: 10 x outer diameter  
Fixed installation: 6 x outer diameter
- Nominal voltage**  
U<sub>0</sub>/U: 1.8/3 kV
- Test voltage**  
6000 V
- Current rating**  
According to VDE 0298 Part 4, Table 15
- Temperature range**  
Flexible use: -25°C to +90°C  
Fixed installation: -40°C to +90°C

Article number	Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>NSGAFÖU 1,8/3 kV</b>				
1600300	1.5	7.0	14,4	60
1600301	2.5	7.5	24	70
1600302	4	9.0	38.4	90
1600303	6	9.5	57.6	120
1600304	10	11.0	96	180
1600305	16	13.0	153.6	250
1600306	25	15.0	240	390
1600307	35	16.5	336	470
1600308	50	18.0	480	625
1600309	70	20.5	672	880
1600310	95	24.0	912	1190
1600311	120	26.0	1152	1430
1600312	150	28.0	1440	1750
1600313	185	31.0	1776	2160
1600314	240	34.5	2304	2640
3026826	300	38.0	2880	3545

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
 Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.  
 Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
 Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
 Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
 Photographs and graphics are not to scale and do not represent detailed images of the respective products.

### Accessories

- Cable shears with double edge refer to page 980
- V 1311-A pressing pliers, hydraulic refer to page 1014
- PVL 1300 pressing pliers battery-operated refer to page 1015