

Harsh conditions

Rubber cables



## 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, switching stations (short-circuit-proof up to 1000 V), power distributors (short-circuit-proof up to 1000 V)
- 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

**Norm references / Approvals**

- <VDE> certification according to the VDE cable type NSGAFÖU 1,8/3 kV acc. 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 5.0 Class-ID: EC000993  
ETIM 5.0 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) |
|----------------|--|---------------------|----------------------|----------------|
| 1600300        | 1.5  | 7.0                 | 14.4                 | 60             |
| 1600301        | 2.5  | 7.5                 | 24.0                 | 70             |
| 1600302        | 4  | 9.0                 | 38.4                 | 90             |
| 1600303        | 6  | 9.5                 | 57.6                 | 120            |
| 1600304        | 10   | 11.0                | 96.0                 | 180            |
| 1600305        | 16   | 13.0                | 153.6                | 250            |
| 1600306        | 25   | 15.0                | 240.0                | 390            |
| 1600307        | 35   | 16.5                | 336.0                | 470            |
| 1600308        | 50   | 18.0                | 480.0                | 625            |
| 1600309        | 70   | 20.5                | 672.0                | 880            |
| 1600310        | 95   | 24.0                | 912.0                | 1190           |
| 1600311        | 120  | 26.0                | 1,152.0              | 1430           |
| 1600312        | 150  | 28.0                | 1,440.0              | 1750           |
| 1600313        | 185  | 31.0                | 1,776.0              | 2160           |
| 1600314        | 240  | 34.5                | 2,304.0              | 2640           |
| 3026826        | 300  | 38.0                | 2,880.0              | 3545           |

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
Copper price basis: EUR 150/100kg. 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 are not to scale and do not represent detailed images of the respective products.

**Accessories**

- V 1311 pressing pliers, hydraulic refer to page 934
- KS 20 cable shears refer to page 908

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ACCESSORIES  
APPENDIX