



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_0/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_0/U : 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 5.0 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_0/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 ²) | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|-------------------------|--|---------------------|----------------------|----------------|
| NSGAFÖU 1,8/3 kV | | | | |
| 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
 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-A pressing pliers, hydraulic refer to page 1030
- KS 20 cable shears refer to page 999
- PVL 1300 pressing pliers battery-operated refer to page 1031