

NSGAFÖU 3 kV

Special Rubber-Insulated Cable, VDE approved, short-circuit up to 1000 V



Technical data

- Special rubber-insulated single core cables to DIN VDE 0250 part 602
- **Temperature range**
flexing -25°C to +80°C
fixed installation -40°C to +80°C
- Permissible conductor **operating temperature** +90°C
- **Nominal voltage**
U₀/U 1,8/3 kV
- Max. permissible **operating voltage**
- in three-phase and one-phase
 a.c. systems U₀/U 2,1/3,6 kV
 - in d.c. systems U₀/U 2,7/5,4 kV
- **Test voltage**
6 kV
- **Minimum bending radius**
flexing 10x outer Ø
fixed installation 6x outer Ø

Cable structure

- Tinned copper conductor, to DIN VDE 0295 cl.5, fine wire, BS 6360 cl.5, IEC 60228 cl.5
- EPR-insulation, compound type 3GI3 to DIN VDE 0207 part 20
- Outer casing: Polychloroprene 5GM3 acc. to DIN VDE 0207 part 21
- Colour black

Properties

Tests

- Oil resistant
acc. to DIN VDE 0473-811-404, DIN EN 60811-404
- Behaviour in fire
acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2 (equivalent DIN VDE 0472 part 804 test method B)

Note

- Considered as being short-circuit safe and inherently earth-fault-proof are those operating materials and conducting assemblies where because of suitable measures and/or means applied, neither a short circuit nor a short to ground is to be expected under operating conditions which are in accordance with those specified for the intended application.
- Version in 6 kV available on request.
- AWG sizes are approximate equivalent values. The actual cross section is in mm².

Application

Particularly suitable for protection against short circuits in laying and for inherently earth-fault-proof routing in rail vehicles and omnibuses. Also suitable for laying in dry environments.

Part no.	No. cores x cross-sec. mm ²	Outer Ø max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
38501	1 x 1,5	7,0	14,4	62,0	16
38502	1 x 2,5	7,5	24,0	76,0	14
38503	1 x 4	9,0	38,0	95,0	12
38504	1 x 6	9,5	58,0	140,0	10
38505	1 x 10	11,0	96,0	190,0	8
38506	1 x 16	13,0	154,0	270,0	6
38507	1 x 25	15,0	240,0	410,0	4
38508	1 x 35	16,5	336,0	490,0	2

Part no.	No. cores x cross-sec. mm ²	Outer Ø max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
38509	1 x 50	18,0	480,0	650,0	1
38510	1 x 70	20,5	672,0	900,0	2/0
38511	1 x 95	24,0	912,0	1200,0	3/0
38513	1 x 120	26,0	1152,0	1450,0	4/0
38514	1 x 150	28,0	1440,0	1800,0	300 kcmil
38512	1 x 185	31,0	1776,0	2200,0	350 kcmil
38515	1 x 240	34,5	2304,0	2650,0	500 kcmil
38516	1 x 300	38,0	2880,0	3250,0	600 kcmil

Dimensions and specifications may be changed without prior notice. (RK01)