

1600300	DATA SHEET	
valid from: 06.03.2019	NSGAFÖU 1.8/3 kV	

Application

NSGAFÖU 1.8/3 kV are flexible single-conductor rubber cables for use in railway vehicles and omnibuses as well as in dry interiors. Suitable for use in ducts, tubes, pipes, conduits and closed installation channels. No direct burial, except of lead-through through fire separations such as sand cups.

According to DIN VDE 0298-3 (VDE 0298-3), cables with nominal voltage U_0/U of at least 1.8 / 3 kV can be used for short circuit-proof and short-to-ground-proof installation up to 1000 V.

Design

Design	acc. DIN VDE 0250-602 (VDE 0250-602)
Conductor	fine-wire tinned copper conductor acc. IEC 60228 resp. EN 60228 (VDE 0295), Class 5
Insulation	rubber compound 3GI3 acc. DIN VDE 0207-20 (VDE 0207-20) outer coating (no outer sheath): rubber compound 5GM3 acc. DIN VDE 0207-21 (VDE 0207-21), colour: black (other colouring on request)

Electrical properties at 20°C

Nominal voltage	U_0/U : 1.8 / 3 kV
Test voltage	A / A: 6000 V AC

Mechanical and thermal properties

Minimum bending radius	acc. DIN VDE 0298-3 (VDE 0298-3) fixed installation: 6 x outer diameter moved freely: 10 x outer diameter at insertion: 10 x outer diameter drum operation (enforced guidance): 12 x outer diameter cable roller assemblies (enforced guidance): 10 x outer diameter
Temperature range	at the conductor: during operation: +90 °C at the surface: fixed installation: -40 °C to +80 °C during laying: -25 °C to +80 °C
Flammability	acc. IEC 60332-1-2
Ozone resistance	acc. EN 60811-404 (VDE 0473-811-404)
Tests	The cable is characterized with the <VDE>-sign or VDE-identification thread.

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