


1600300	<b>DATA SHEET</b>	
valid from: 02.07.2024	<b>NSGAFÖU 1.8/3 kV</b>	

## 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.

Acc. to DIN 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. to VDE 0250-602
Certification	The cable is characterized with the <VDE>-sign or VDE-identification thread.
Conductor	<p>Classification of fire behaviour according to EN 13501-6 and EN 50575 (article/dimension range see <a href="http://www.lappkabel.com/cpr">www.lappkabel.com/cpr</a>)</p> <p>fine-wire tinned copper conductor acc. to IEC 60228 resp. EN 60228, class 5</p>
Insulation	<p>separator layer (optional): over the conductor, made of suitable material acc. to VDE 0250-602</p> <p>rubber compound 3GI3 acc. to VDE 0207-20</p> <p>outer coating (no outer sheath): rubber compound 5GM3 acc. to VDE 0207-21</p> <p>colour: black (other colouring on request)</p>

## Electrical properties at 20 °C

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

## Mechanical and thermal properties

Minimum bending radius	<p>acc. to DIN VDE 0298-3</p> <p>fixed installation: 6 x outer diameter</p> <p>moved freely: 10 x outer diameter</p> <p>at insertion: 10 x outer diameter</p> <p>drum operation (enforced guidance): 12 x outer diameter</p> <p>cable roller assemblies (enforced guidance): 10 x outer diameter</p>
Temperature range	<p>at the conductor:</p> <p>during operation: +90 °C</p> <p>at the surface:</p> <p>fixed installation: -40 °C to +80 °C</p> <p>during laying: -25 °C to +80 °C</p>
Flammability	acc. to IEC 60332-1-2 resp. EN 60332-1-2
Oil resistance	acc. to VDE 0207-21
<b>General requirements</b>	A part of these cables (see <a href="http://www.lappkabel.com/cpr">www.lappkabel.com/cpr</a> ) are classified in accordance with the EU-Regulation no. 305/2011 (CPR).
<b>Environmental information</b>	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).
<b>Note</b>	Trade product, no Lapp product

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