

# Technical data sheet · LÜTZE SUPERFLEX® N (C) PVC

## For medium to high requirements



PVC control cables · C-track compatible · shielded

<b>Identification</b>	Type	SU N(C)PVC (18G1,5)
	Part-No.	111305

### Use/Application/Characteristics

Application	<ul style="list-style-type: none"> <li>• Machine and device construction, transport and conveyor technology, HVAC technology</li> <li>• In dry and damp rooms</li> <li>• As a monitoring, measurement and control cable in continuously moving applications</li> <li>• For installation in energy chains with constant linear movement</li> <li>• Anywhere where electrical interference fields can influence the signal transmission</li> </ul>
Characteristics	<ul style="list-style-type: none"> <li>• Construction and material suitable for continuous movement application.</li> <li>• High active and passive interference resistance</li> <li>• PVC Flame-retardant, self-extinguishing</li> <li>• Resistant to most oils, greases, acids and alkalis (see tech. information)</li> <li>• Silicone free</li> <li>• RoHS-compliant</li> </ul>

### Construction

Description	SUPERFLEX N (C) PVC
Number of conductors/cross-section	(18G1.5)
Jacket material	Special PVC
Jacket color	grey RAL 7001
Outer Ø	16 mm

27.01.2017 – Subject to technical modification

Part-No. 111305

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SYSTEMATIC TECHNOLOGY

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Weight 49.4 kg/100 m  
Cu-Index 32.5 kg/100 m

### Element 1

Element construction (18G1,5)  
Conductor CU-wire bare  
Conductor category DIN EN 60228, class 6  
Superfinely stranded DIN VDE 0295  
DIN EN 13602  
Conductor marking black  
with white number print  
green/yellow  
Conductor insulation Special PVC  
Stranding Conductors stranded layers  
layer pitch optimised  
Conductors twisted without mechanical stress  
Wrapping Non-woven material

### overall construction

Overall wrapping Non-woven material  
Inner jacket PVC  
Overall shield Braid shield  
Tinned copper wires  
optical cover approx. 85%  
Jacket characteristics Flame-retardant  
self-extinguishing  
Silicone-free  
Oil resistant  
grease-resistant  
acid-resistant.  
alkali-resistant

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### Technical data

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Rated voltage  $U_0/U$  300/500 V  
Test voltage type AC 3000 V  
Temperature range moving -15 °C ... +80 °C  
Temperature range fixed -30 °C ... +80 °C  
Minimum bending radius moving 12×D  
Minimum bending radius fixed 6×D  
Bending cycles  $\geq 1$  Mio  
Travel distance  $\leq 15$  m  
Speed 5 m/s

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Acceleration 10 m/s<sup>2</sup>

### Element 1

Element construction (18G1,5)  
Insulation resistance at 20°C 20.0 MΩ×km

### Approvals/Standards

Conformity CE  
RoHS  
Burning behavior DIN EN 60332-2-2  
IEC 60332-2-2  
VDE 0482-332-2-2

### General

Note CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU

### Symbols



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