

Technical data sheet

PVC control cables · shielded

LÜTZE SILFLEX® N (C) PVC MULTINORM With approvals for Europe and North America



Identification

Type SI N(C)PVC(3G1,0)MN
Part No. [109821](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Machine and device construction, transport and conveyor technology, heating and climate technology• In dry, damp and wet rooms• As a monitoring, measurement and control cable for industrial applications• For flexible applications without compulsory guide• Anywhere where electrical interference fields can influence the signal transmission |
| Properties | <ul style="list-style-type: none">• UL recognized for use in North America• Easy stripping and fast installation• High flexibility for complex installation distances and small bending radii• Improved oil resistance due to specifically developed PVC jacket• Resistance to many oils, coolants and solvents• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Silicone free |

Construction

Description	SILFLEX® N (C) PVC MULTINORM
Number of conductors/cross-section	(3G1.0)
Number of conductors	3
Cross-section, metric	1 mm ²
Jacket material	Special PVC
Jacket color	grey similar to RAL 7001
Outer Ø	6.7 mm

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Weight	7.7 kg/100 m
Cu-Index	4.81 kg/100 m

Construction Element 1

Element construction	(3G1.0)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking standard	DIN VDE 0293
Conductor insulation	Special PVC

Overall construction

Overall stranding	Layered construction
Overall wrapping	Non-woven material
Overall shield	Braid shield Tinned copper wires Optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant Coolant-resistant Solvent-resistant Hydrolysis-resistant Microbe resistant Silicone free

Technical data

Rated voltage U_0/U	300/500 V
Rated voltage UL	600 V
Test voltage type	AC 6000 V
Temperature according to UL	90 °C
Temperature range UL moving	-5 °C ... +90 °C
Temperature range UL fixed	-40 °C ... +90 °C
Temperature range VDE moving	-5 °C ... +70 °C
Temperature range VDE fixed	-25 °C ... +70 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	6×D

Technical Data Element 1

Element construction	(3G1.0)
Insulation resistance at 20 °C	≥20 MΩ×km
Operating capacitance wire-wire	approx. 156 pF/m
Operating capacitance wire-shield	approx. 180 pF/m

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Certifications/Standards

Certifications	cURus AWM I/II A/B FT1 VDE
UL style	AWM 2587
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 IEC 60332-3-24 UL FT1 UL VW-1
Oil resistant according to	Oil Res II

General

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