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(4G0,5)MN
Part No.	109802

Product version

Datasheet version	00

Use/Application/Properties

Application	• 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 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	(4G0.5)
Number of conductors	4
Cross-section, metric	0.5 mm²
Jacket material	Special PVC
Jacket color	grey similar to RAL 7001
Outer Ø	6.3 mm

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Weight	6.8 kg/100 m
Cu-Index	3.83 kg/100 m

Construction Element 1

Element construction	(4G0.5)
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	(4G0.5)
Insulation resistance at 20 °C	≥20 MΩ×km
Operating capacitance wire-wire	approx.134 pF/m
Operating capacitance wire-shield	approx.142 pF/m

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