Technical data sheet · LÜTZE SILFLEX® N (C) PVC

PVC control cables · shielded

Identification	Type	SI N(C)PVC(18G0,5)
	Part-No.	116152

Use/Application/Characteristics	
Application	• Machine and device construction, transport and conveyor technology, HVAC technology • In dry and damp rooms • As a monitoring, measurement and control cable for industrial applications • For flexible application without continuous flexing • Anywhere where electrical interference fields can influence the signal transmission
Characteristics	• The overall braided copper shield prevents both the interference of signals and measured values as well as the emission of interfering signals • PVC Flame-retardant, self-extinguishing • Resistant to most oils, greases, acids and alkalis • Silicone free • RoHS-compliant

Construction	
Description	Silfex N (C) PVC
Number of conductors/cross-section	(18G0.5)
Jacket material	Special PVC
Jacket color	grey RAL 7001
Outer ∅	11.5 mm
Surface	adhesion-free matt

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Weight	22.4 kg/100 m
Cu-Index	12.4 kg/100 m

Element 1

Element construction	(18G0,5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 DIN EN 13602
Conductor marking	black with white number print green/yellow
Conductor insulation	Special PVC
Conductor insulation standard	VDE 0281-1 EN 50363-3

overall construction

Overall stranding	Conductors stranded layers
Overall shield	Braid shield Tinned copper wires optical cover approx. 85%
Jacket characteristics	Flame-retardant self-extinguishing Oil resistant grease-resistant acid-resistant. alkali-resistant Silicone-free

Technical data

Rated voltage U_0/U	300/500 V
Test voltage type	AC 3000 V
Temperature range moving	-5 °C … +70 °C
Temperature range fixed	-40 °C … +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	6×D

Element 1

Element construction	(18G0,5)
Insulation resistance at 20°C	20.0 MΩ×km
Operating capacitance Ader-Ader	134 pF/m
Operating capacitance wire-shield	142 pF/m

Approvals/Standards

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Conformity	CE RoHS
Burning behavior	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2

General

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

Symbols

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