

Technical data sheet · LÜTZE SUPERFLEX® N PVC

For high requirements



PVC control cables · C-track compatible · unshielded

Identification	Type	SU N 5G1,0 UL
	Part-No.	A1381805

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 installation in energy chains with constant linear movement
Characteristics	• Very small cable diameters due to special TPE conductor insulation (HGI) according to UL standard • Reduced friction due to high glide conductor insulation (HGI) for high mechanical loads • Flexibility due to super finely stranded wire construction • Low capacitance, very good electrical properties • Especially developed PVC jacket according to UL class 43 • Filler without wicking • Low adhesion, abrasion-resistant, nick-resistant, tear resistant • Hydrolysis-resistant, microbe-resistant, and rot-resistant • Use in dry or damp environment • Silicone free • RoHS-compliant

Construction

Description	SUPERFLEX® N PVC
-------------	------------------

28.11.2017 – Subject to technical modification

Part-No. A1381805

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA

Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223

www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park

Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU

Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2

www.lutze.com • sales.gb@lutze.co.uk

Technical data sheet · LÜTZE SUPERFLEX® N PVC

For high requirements

Number of conductors/cross-section	5G1.0
Jacket material	Special PVC
Jacket color	grey RAL 7001
Outer Ø	7.8 mm
Outer Ø	0.307 inches
Weight	9.5 kg/100 m
Weight	64 Lbs/Mft
Cu-Index	5 kg/100 m
Cu-Index	33 Lbs/Mft

Element 1

Element construction	AWG18/5C
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black with white number print green/yellow
Conductor marking standard	DIN EN 50334
Conductor insulation	Special TPE

overall construction

Overall stranding	Conductors twisted without mechanical stress layer pitch optimised
Overall wrapping	Non-woven material
Jacket characteristics	abrasion resistant tough tear resistant microbe resistant hydrolysis-resistant rot-resistant UV resistant (normal lighting conditions) Oil resistant Silicone-free Flame-retardant

Technical data

Rated voltage	600 V UL AWM
Test voltage type	AC 3000 V
Temperature range moving	-5 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C

28.11.2017 – Subject to technical modification

Part-No. A1381805

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA

Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223

www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park

Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU

Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2

www.lutze.com • sales.gb@lutze.co.uk



SYSTEMATIC TECHNOLOGY

Technical data sheet · LÜTZE SUPERFLEX[®] N PVC

For high requirements

Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D

Element 1

Element construction	AWG18/5C
Insulation resistance at 20 °C	100 MΩ×km

Approvals/Standards

Approvals	cURus AWM I/II A/B 80°C 600V FT1
UL style	AWM 20207 AWM 10429
Conformity	CE RoHS REACH
Burning behavior according to	UL VW-1 UL FT1 IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2
Oil resistant according to	UL 4d100C UL Oil Res 80 °C DIN EN 60811-404
UV-resistant according to	DIN EN ISO 4892-2-A

General

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

Symbols



28.11.2017 – Subject to technical modification

Part-No. A1381805

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223
www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2
www.lutze.com • sales.gb@lutze.co.uk



SYSTEMATIC TECHNOLOGY

Technical data sheet · LÜTZE SUPERFLEX® N PVC
For high requirements



28.11.2017 – Subject to technical modification

Part-No. A1381805

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223
www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2
www.lutze.com • sales.gb@lutze.co.uk



SYSTEMATIC TECHNOLOGY