Technical data sheet

High Flexing Control Cable for Continuous Motion Applications · Unshielded

LÜTZE SUPERFLEX® N PVC

Identification

Type	SU N PVC 25G0,5
Part No.	A1482025

Product version

Datasheet version	00

Use/Application/Properties

Application	• Suitable for control, monitoring and instrumentation applications with continous flexing cycles • Compatible with all major drag chain brands • Compliant with NFPA 79, Article 12.9 • Dry and wet conditions
Properties	• Very small cable diameters due to special TPE conductor insulation (HGI) according to UL standard • TPE/PVC combination for high performance flexing and longer cable run • Flexibility ensured through superfine strand construction • Especially developed PVC jacket according to UL class 43 • Non-wicking fillers • Abrasion, high wear and tear resistance • Hydrolysis-resistant, microbe-resistant, and rot-resistant • UV resistant • Talc free and silicone free

Construction

Description	SUPERFLEX® N PVC
Number of conductors/cross-section	25G0.5
Number of conductors	25
Cross-section, metric	0.5 mm²
Cross-section AWG	AWG 20
Jacket material	Special PVC
Jacket color	grey similar to RAL 7001
Outer Ø	12.6 mm

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Outer Ø	0.496 inch
Weight	177 Lbs/Mft
Cu-Index	80 Lbs/Mft

Construction Element 1

Element construction	AWG 21 / 0,5 mm²
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 IEC 60228, Class 6
Conductor marking	black • with white number print • green/yellow
Conductor insulation	Special TPE

Overall construction

Overall stranding	Conductors twisted without mechanical stress Layer pitch optimised
Overall wrapping	Non-woven material
Jacket characteristics	Oil resistant

Technical data

Rated voltage U_N	600 V UL AWM 105 °C
Test voltage type	AC 3000 V
Temperature range moving	-15 °C ... +90 °C
Temperature range fixed	-40 °C ... +105 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D

Technical Data Element 1

Element construction	AWG 21 / 0,5 mm²
Insulation resistance at 20 °C	≥100 MΩ×km

Certifications/Standards

Certifications	cURus AWM I/II A/B 105°C 600V FT1
UL style	AWM 2586
Conformity	CE RoHS REACH TSCA
Burning behavior according to	UL VW1, FT1 DIN EN 50265-2-1
Oil resistant according to	UL 4d100C UL Oil Res 80 °C DIN EN 60811-2-1
UV-resistant according to	UL 1581

General

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