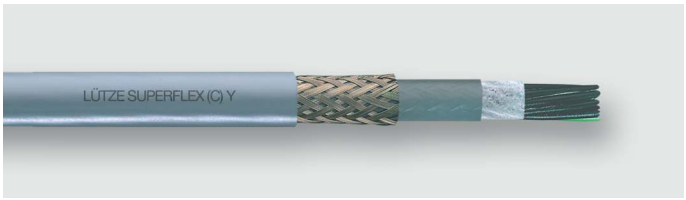
Technical data sheet

High Flexing Control Cable for Continuous Motion Applications · Shielded

LUTZE SUPERFLEX® N (C) PVC



Identification

Type	SU N (C) PVC (7G1,5)
Part No.	A1491607

Product version

Datasheet version	00

Use/Application/Properties

Application

- Shielded multi-conductor high flexing cable suitable for control, monitoring and instrumentation applications with continous flexing in drag chains
- Machine tools, gantry robots, conveyors and other conitnuous motion application in industrial environments
- 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
- Sub-jacket for increased flex life in high performance flexing and long cable runs
- 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 (C) PVC
Number of conductors/cross-section	(7G1,5)
Number of conductors	7
Cross-section, metric	1.5 mm²
Cross-section AWG	AWG 16
Jacket material	Special PVC
Jacket color	grey similar to RAL 7001
Outer Ø	12.4 mm
Outer Ø	0.488 inch
Weight	201 Lbs/Mft

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Cu Index	90 Lbs/Mft

Construction Element 1

Element construction	AWG 16 / 1,5 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
Inner jacket	PVC
Overall shield	Tinned copper wires Braid shield
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	10×cable OD
Minimum bending radius fixed	6×cable OD

Technical Data Element 1

Element construction	AWG 16 / 1,5 mm²
Insulation resistance at 20 °C	≥100 MΩ×km

Approvals/Standards

Approvals	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