

Technical data sheet

High Flexing Control Cable for Continuous Motion Applications · Unshielded

LÜTZE SUPERFLEX® N PVC



Identification

Type SU N PVC 12G0,5
Part No. [A1482012](#)

Product version

Datasheet version 00

Use/Application/Properties

- Application
- Suitable for control, monitoring and instrumentation applications with continuous 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 12G0.5
Cross-section AWG AWG 20
Jacket material Special PVC
Jacket color grey similar to RAL 7001
Outer Ø 8.6 mm
Outer Ø 0.339 inch
Weight 83 Lbs/Mft

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SYSTEMATIC TECHNOLOGY

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Cu-Index 39 Lbs/Mft

Construction Element 1

| | |
|----------------------|---|
| Element construction | AWG 21 / 0,5 mm ² |
| 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 | 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 mm ² |
| 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 |

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General

Note

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