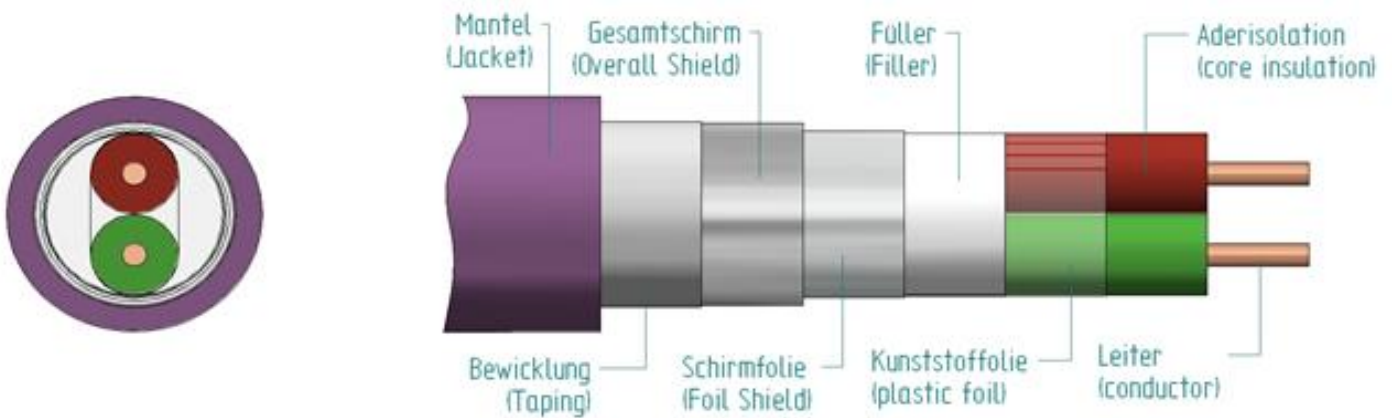
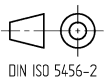




01. Drawing



The information/details in this datasheet merely contain general descriptions or performance factors which, when applied in an actual situation, do not always correspond with the described form, and may be amended by way of the further development of products. The desired performance factors shall only be binding if these are expressly agreed on conclusion of the contract.



02. Application:

Description: as a flexible, flame-retardant and halogen-free an shielded bus line in the industrial mechanical- and plant engineering, for high requirements, particularly for the employment in cable carriers (drag chains) and moved machine parts.

03. Line construction:

03.01 Litz construction:

Wire material: Cu-ETP1 bare acc. to DIN EN 13602
 Wire size: 0,34 mm² (AWG 22)
 Litz construction: approx. 19 x Ø 0,15 mm

03.02. Core insulation:

Wire isolation: Foam-Skin-PE
 Core-diameter: Ø 2.60 ± 0,05 mm
 Number of wires: 2
 Correlation Core number-Core color: 1 red/RD; 2 green/GN

03.09. shielding:

yes
 Diameter: approx. Ø 5,50 mm
 Material: AL-PETP
 Covering: 100%

03.10. Overall shield:

mesh
 Diameter: approx. Ø 5,90 mm
 Material: Cu-ETP1 tinned acc. DIN EN 13602
 Covering: 70% ±5%

03.13. Outer jacket:

surface free from lubricant and grease.
 Jacket material: PUR
 Jacket-diameter: Ø 7,60 +0,3 mm
 Jacket color: violet matt similarly RAL 4001

Color: yellow
 Printing: * 254 / ** PUR E*** cURus AWM STYLE **** AWM I/II A/B
 80°C 300V FT2 SUITABLE FOR USE WITHIN
 EQUIPMENT ONLY

- * = Producer identification
- ** = Production-year and -week
- *** = UL-Producer number
- **** = UL-Style-Number
- ***** = PROD Lot N°

04. Characteristics:

04.01 Temperature range: (Lifetime > 20.000 h)
 in stationary position: - 50 °C - + 80 °C
 flexible: - 25 °C - + 80 °C
 Ambient temperature in the drag chain movement: - 25 °C - + 60 °C

04.02 Electrical characteristics: at 20 °C
 nominal voltage: ≤ 300 V
 test voltage core/core, (50 Hz, 1 min.): ≥ 2000 V eff.
 conductor resistance: max. 55,0 Ω/km
 Insulation resistance: > 2500 MΩxkm
 Inductance per length unit : 0,78 mH/km
 Operating capacity per length unit : nom. - nF/km @ - Hz

Bending radius in stationary position: > 5 x D
 Bending radius in flexible stress: > 10 x D
 Bending cycles at torsion: > - Mio.

04.04 Drag chain characteristics: yes
 Bending cycles *: > 1 Mio.
 permissible acceleration: max. 5 m/s²
 permissible horizontal traverse path: at 5 m/s² ► 5 m
 permissible vertical traverse path: at 5 m/s² ► 2 m
 permissible traverse speed at 5 m hor. trav. path: max. 200 m/min

* depending on horizontal travel length and acceleration.

05. Burning behavior:

tests in acc. with: DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT2

06. Halogen-free:

Tests acc. to: **yes**
 DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1

07. Resistances:

Oil rest. tests acc. with: good
 others: good microbes and hydrolysis resistance
 good chemical resistance

08. Other characteristics:

Exclusion of dangerous materials acc.: EU-Directives:
 1907/2006/EG, Reach
 2011/65/EU, RoHS2
 2015/863/EU, RoHS3

Line fulfills the transmission values RS485 (Type A) of the PROFIBUS user organization
 further legal requirements:

EU-Directive:
 2014/35/EU, LVD
 others: mainly plasticizer diffusion free
 exclusion of PVC and Silicone
 coldness flexibility
 free of lacquer wetting disturbing substances

09. Approvals:

UL/CSA
 Jacket: cURus in acc. with AWM Style 20549/21198 (80 °C / 300 V)
 Core: cURus in acc. with AWM Style 10230 (80 °C / 300 V)

product overview

Article-No.	Type
000-007-598	STL 254
000-108-197	STL 254/25 M
934-636-344	STL 254/100 M PUR
934-636-439	STL 254/500 M PUR