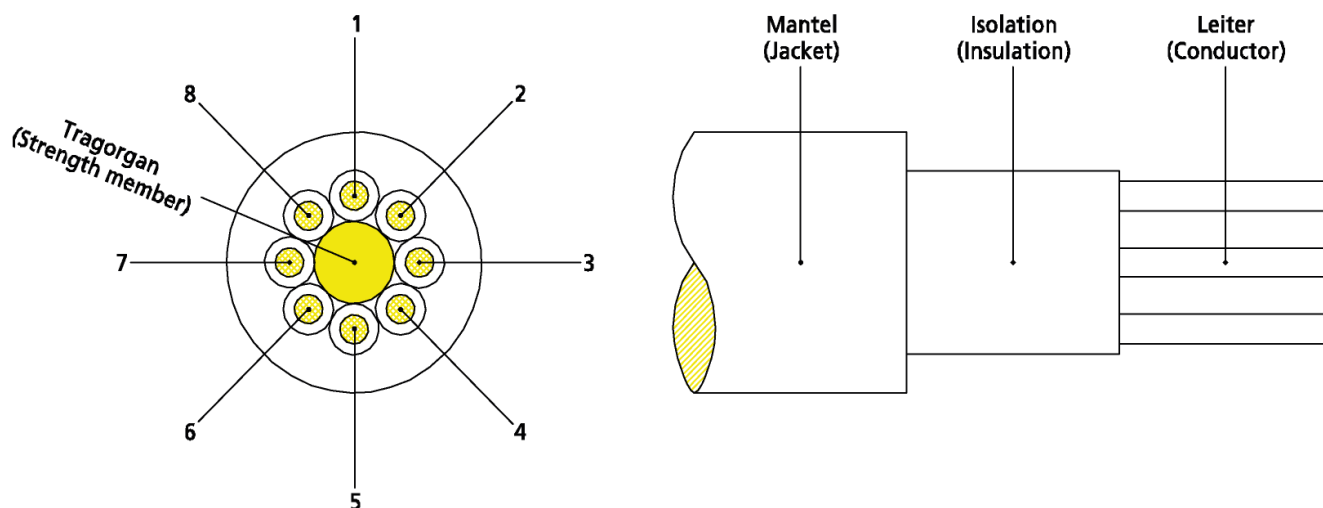
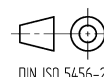


01. Drawing



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 control 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 in acc. with DIN EN 13602
 Wire size: 0,25 mm², 0,25 mm²
 Litz construction: approx. 32 x Ø 0,10 mm

03.02. Core insulation:

Wire isolation: no adhesion between the cores
 PP
 Core-diameter: Ø 1,20± 0,05 mm
 Number of wires: 8
 Correlation Core number-Core color: 1 brown/BN; 2 blue/BU; 3 white/WH ; 4 green/GN; 5 pink/PK; 6 yellow/YE; 7 grey/GY; 8 red/RD

03.09. shielding:

Diameter: no
 (approx. Ø - mm)

03.13. Outer jacket:

Jacket material: PUR
 Jacket-diameter: Ø 6,0 ±0,20 mm
 Jacket color: black matt similarly RAL 9005

Surface free from lubricant and grease

Color: yellow
 Printing: * 344 / ** PUR E*** cURus AWM STYLE **** AWM I/II A/B
 80°C 300V FT2 + SUITABLE FOR USE
 WITHIN EQUIPMENT ONLY

- * = Producer identification
- ** = WWYY Production-year and -week
- *** = UL-Producer number
- **** = Style-Number

04. Characteristics:

04.01 Temperature range: (Lifetime > 20.000 h)
 in stationary position: - 50 °C - + 90 °C (UL: + 80 °C)
 flexible: - 25 °C - + 90 °C (UL: + 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. 79,0 Ω/km
 Insulation resistance: > 1000 MΩxkm
 Inductance per length unit : mH/km

Bending radius in stationary position: > 5 x D
 Bending radius in flexible stress: > 10 x D
 Bending radius drag chain > 10 x D
 Angle of torsion max.: ± 360 °
 Length of torsion: 1 m
 Bending cycles at torsion: > 5 Mio.

04.04 Drag chain characteristics: yes
 Bending cycles *: > 5 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:

flame retardent acc. to: DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT2

06. Halogen-free:

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

08. Other characteristics:

Exclusion of dangerous materials acc.: 2000/53/EG, 2011/65/EU, 2003/11/EG, 1907/2006/EG
 good microbes and hydrolysis resistance
 mainly plasticizer diffusion free
 good chemical and oil resistance
 Exclusion of PVC and Silicone
 free of lacquer wetting disturbing substances
 Coldness flexibility

09. Approvals:

UL/CSA

Jacket: cURus in acc. with AWM Style 20549 (80 °c / 300 V)
 Core: cURus in acc. With AWM Style 10493 (80 °c / 300 V)

product overview

Article-No.	Type
000-109-581	STL 344/100 M PUR
000-109-582	STL 344/500 M PUR
193-344-001	STL 344, 8x 0,25mm ² , PP/PUR, schwarz

Version: 7

Description of changes:

Geändert: fest verlegt: - 50 °C bis + 80 °C in - 50 °C - + 90 °C (UL: + 80 °C)

Geändert: bewegt: - 25 °C bis + 80 °C in - 25 °C - + 90 °C (UL: + 80 °C)

Geändert: Umgebungstemperatur im Schleppkettenbetrieb: - 25 °C bis + 60 °C in - 25 °C - + 60 °C

Geändert: Torsionswinkel max.: ± - °/m in ± 360 °

Hinzu: Torsionslänge: 1 m

Geändert: Biegezyklen bei Torsionsbeanspruchung: > - Mio. in > 5 Mio.

Geändert: Biegezyklen *: > 2 Mio. in > 5 Mio.