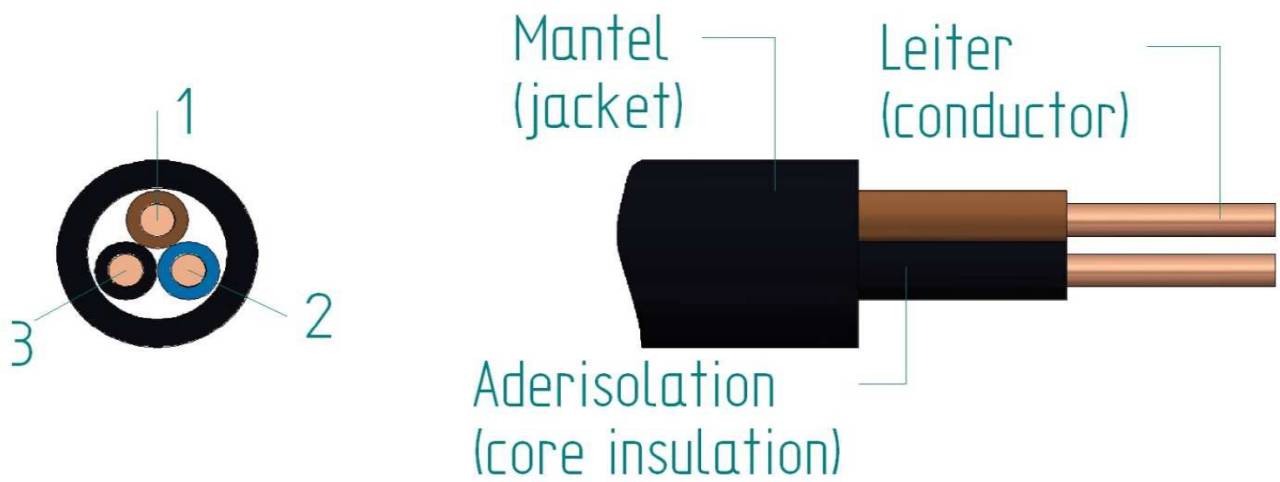
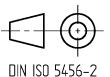


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01. Drawing



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.



Datasheet-No.: 193-338-001

Type: STL 338, 3x 0,14mm<sup>2</sup>

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EN Revision: 12 Created: 2018-05-09 pkuhn

Lif9YH-11YH, AWM Style 20549, FT2, PUR, 300 V/80°C

1 of 4

**02. Application:**

Description: as flexible, non fire propagating and halogen-free Control cable 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: VDE 0295, EN 60228, IEC 60228 (Klasse/Class 6)  
 Wire material: Cu-ETP1 bare in acc. with DIN EN 13602  
 Wire size: 0,14 mm<sup>2</sup>  
 Litz construction: ca. 72 x Ø 0,05 mm

03.02. Core insulation: no adhesion between the cores  
 Wire isolation: PP  
 Core-diameter: Ø 0,90 ± 0,03 mm  
 Number of wires: 3  
 Correlation Core number-Core color: 1 brown/BN; 2 blue/BU; 3 black/BK

03.09. shielding: no

03.13. Outer jacket:  
 Jacket material: PUR  
 Jacket-diameter: Ø 2,90 +0,05/-0,15 mm  
 Jacket color: black matt similarly RAL 9005

Surface free from lubricant and grease.

Color: yellow  
 Printing: \* 338 / \*\* 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 to + 80 °C  
 flexible: - 25 °C to + 80 °C  
 Ambient temperature in the drag chain movement: max. +60 °C

04.02 Electrical characteristics: at 20 °C  
 nominal voltage: ≤ 300 V  
 test voltage core/core, (50 Hz, 1 min.): ≥ 2000 V eff.  
 comparative tracking index CTI : 600  
 conductor resistance: max. 138,0 Ω/km  
 Insulation resistance: > 5000 MΩxkm  
 Operating capacity per length unit : comparative tracking index CTI : 600

Bending radius in stationary position: > 3 x D  
 Bending radius in flexible stress: > 10 x D  
 Angle of torsion max.: ± 270 °/10 cm  
 Bending cycles at torsion: > 2.000.000

04.04 Drag chain characteristics: yes  
 Bending cycles \*: > 2 Mio.  
 permissible acceleration: 5m/s<sup>2</sup>  
 permissible horizontal traverse path: at 5m/s<sup>2</sup> ► 5m  
 permissible vertical traverse path: at 5m/s<sup>2</sup> ► 2m  
 permissible traverse speed at 5 m hor. trav. path: 200m/min +20m/min

\* depending on horizontal travel length and acceleration.

**05. Burning behavior:**

flame retardent acc. to: IEC 60332-2, VDE 0482-265-2-2, EN 50265-2-2, FT2

**06. Halogen-free:**

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

**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  
 Coldness flexibel

**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
193-338-001	STL 338
934-636-293	STL 338/100 M PUR
934-636-436	STL 338/500 M PUR