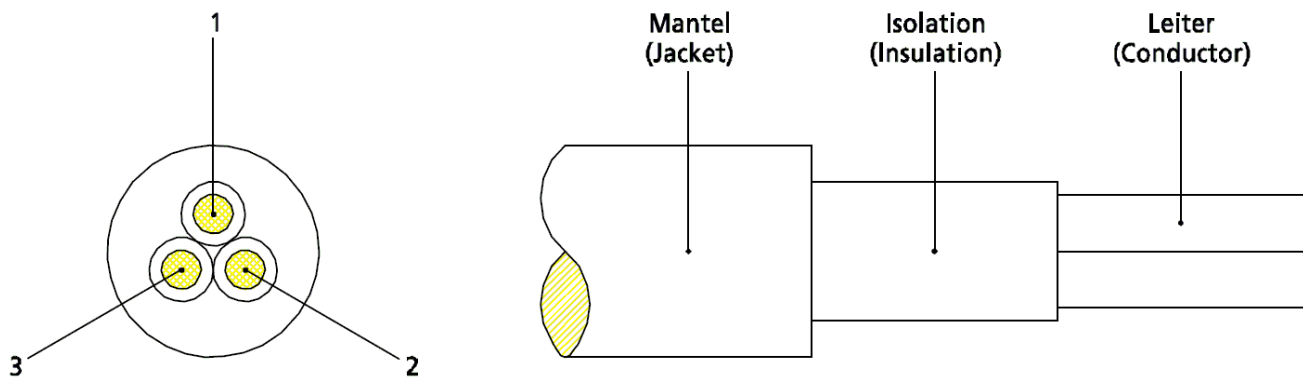
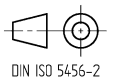


RoHS ✓ 

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 flexible and flame-retardant control line in the industrial mechanical- and plant engineering, for increased requirements, particularly for the employment in cable carriers (drag chains) and moved machine parts.

**03. Line construction:**

03.01 Litz construction: in acc. with VDE 0295, EN 60228, IEC 60228, HD 383  
 Wire material: Cu-ETP1 bare in acc. with DIN EN 13602  
 Wire size: 0,34 mm<sup>2</sup> (AWG 22)  
 Litz construction: 42 x Ø 0,10 mm

03.02. Core insulation: No adhesion between the cores and outer jacket  
 Wire isolation: PVC class 43  
 Core-diameter: Ø 1,50 ±0,05 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: Surface free from lubricant and grease.  
 Jacket material: PVC class 43  
 Jacket-diameter: Ø 5,0 ±0,20 mm  
 Jacket color: orange similarly RAL 2003

Color: white  
 Printing: \* 06 / \*\* PVC E\*\*\* UR AWM STYLE \*\*\*\* 80°C 300V VW-1

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

**04. Characteristics:**

04.01 Temperature range: (Lifetime > 20.000 h)  
 in stationary position: - 40 °C - + 90 °C (UL: +80 °C)  
 flexible: + 5 °C - + 90 °C (UL: +80 °C)  
 Ambient temperature in the drag chain movement: + 5 °C - + 60 °C

04.02 Electrical characteristics: at + 20°C  
 nominal voltage: ≤ 300 V  
 test voltage core/core, (50 Hz, 1 min.): ≥ 2500 V eff.  
 conductor resistance: max. 57,0 Ω/km  
 Insulation resistance: > 10 MΩxkm

Bending radius in stationary position: > 5 x D  
 Bending radius in flexible stress: > 10 x D

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

\* depending on horizontal travel length and acceleration.

<b>05. Burning behavior:</b>	<b>flame retardent and self-extinguishing</b>
tests in acc. with:	DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2, UL VW-1

<b>06. Halogen-free:</b>	
Tests acc. to:	-
Construction Products Regulation (EU)305/2011:	-

<b>07. Resistances:</b>	
Oil rest. tests acc. with:	good
others:	good chemical resistance

<b>08. Other characteristics:</b>	
Exclusion of dangerous materials acc.:	EU-Directives: 1907/2006/EG, Reach 2011/65/EU, RoHS2 2015/863/EU, RoHS3
further legal requirements:	EU-Directive: 2014/35/EU, LVD
others:	free of lacquer wetting disturbing substances Exclusion of Silicone

<b>09. Approvals:</b>	<b>UL/CSA</b>
Jacket:	UR in acc. with AWM Style 2464 (80°C / 300 V)
Core:	UR in acc. with AWM Style 1679 (80°C, 90°C / 300V)

## product overview

Article-No.	Type
000-001-276	STL 006, 3x0,34mm <sup>2</sup> , PVC, orange
000-109-562	STL 006/100 M PVC
000-109-563	STL 006/500 M PVC