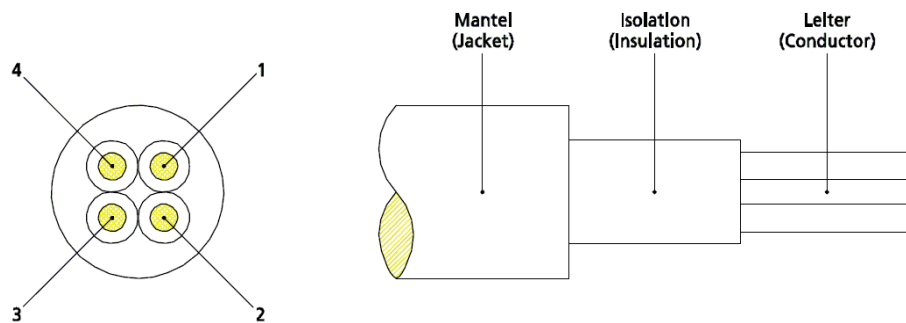
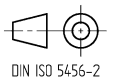


RoHS ✓ 

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:

Wire material: Cu-ETP1 bare in acc. with DIN EN 13602  
 Wire size: 0,25 mm<sup>2</sup>  
 Litz construction: 32 x Ø 0,10 mm

03.02. Core insulation:

Wire isolation: PVC class 43  
 Core-diameter: Ø 1,35 ±0,05 mm  
 Number of wires: 4  
 Correlation Core number-Core color: 1 brown/BN, 2 white/WH, 3 blue/BU, 4 black/BK

03.09. shielding: no

03.13. Outer jacket:

Jacket material: PVC class 43  
 Jacket-diameter: Ø 5,00 ±0,20 mm  
 Jacket color: orange similarly RAL 2003

Color: white  
 Printing: \* 07 / \*\* 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. 79 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

**05. Burning behavior:**

**flame retardent and self-extinguishing**

tests in acc. with: DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2, UL VW-1

**07. Resistances:**

Oil rest. tests acc. with: good  
 others: 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

further legal requirements:

EU-Directive:

2014/35/EU, LVD

others:

free off lacquer wetting disturbing substances  
 exclusion of silicone

**09. Approvals:**

**UL/CSA**

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
000-001-277	STL 007, 4x0,25mm <sup>2</sup> , PVC, orange
000-109-564	STL 007/100 M PVC
000-109-565	STL 007/500 M PVC