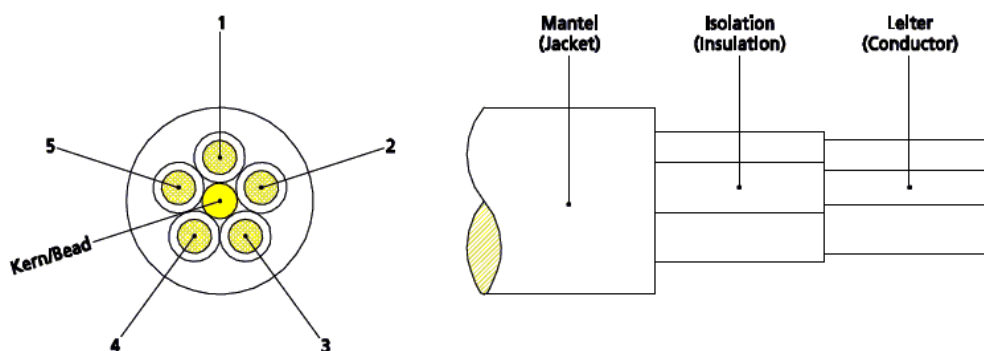
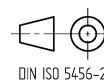


01. Drawing



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: 0,34 mm<sup>2</sup>  
 Litz construction: ca. 42 x Ø 0,10 mm

03.02. Core insulation:

Wire isolation: PVC class 43  
 Core-diameter: Ø 1,50 ± 0,05 mm  
 Number of wires: 5  
 Correlation Core number-Core color: 1 brown/BN; 2 white/WH; 3 blue/BU; 4 black/BK; 5 grey/GY

03.09. shielding: no

03.13. Outer jacket:

Jacket material: PVC class 43  
 Jacket-diameter: Ø 5,70 ±0,20 mm  
 Jacket color: orange similar to RAL 2003

Surface free from lubricant and grease.

Color: white  
 Printing: \*56 / \*\* PVC E\*\*\* UR label AWM Style \*\*\*\* 80°C 300V VW-1

- \* = 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: - 40 °C bis/to +80 °C  
 flexible: + 5 °C to +80 °C  
 Ambient temperature in the drag chain movement: + 5 °C to +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: > 10,0 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>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 / 300V)
Core:	UR in acc. with AWM Style 1679 (80°C, 90°C / 300V)

## product overview

Article-No.	Type
000-001-331	STL 056
000-109-566	STL 056/100 M PVC
000-109-567	STL 056/500 M PVC