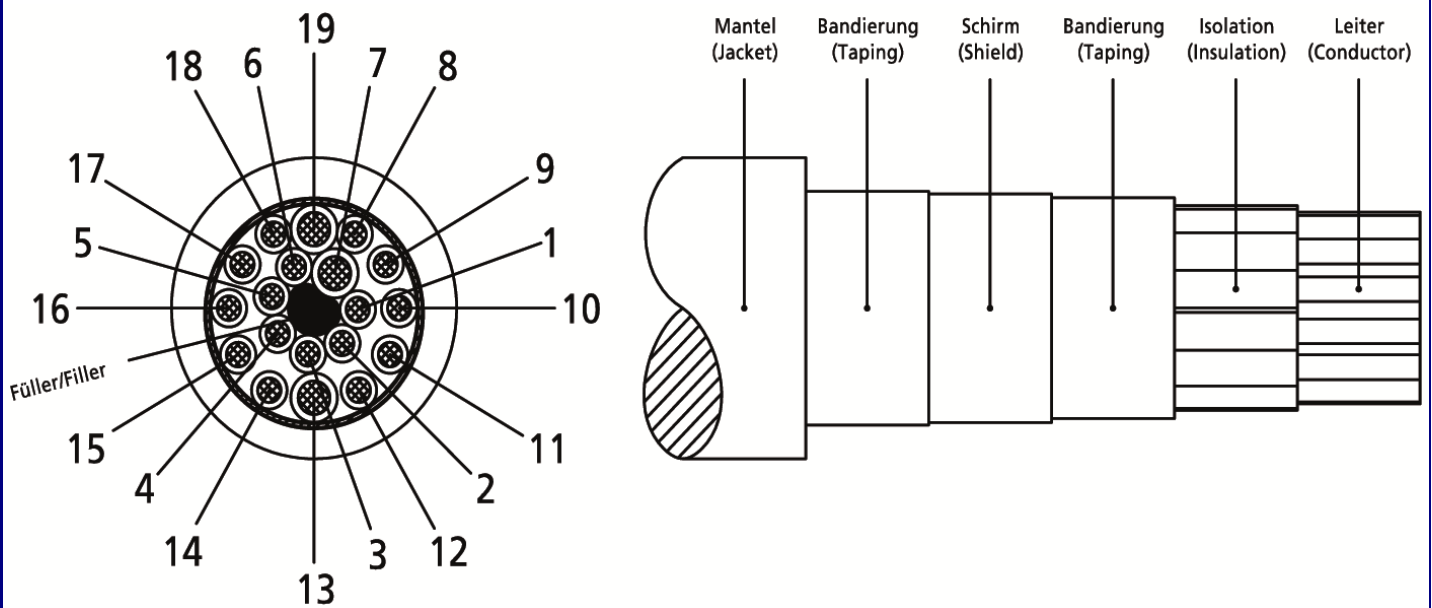
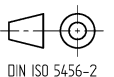




01. Drawing



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: Shielded, halogen free and flame resistant cable for normal applications in the sensor engineering, as well as for the employment in cable carriers with vertical and horizontal movement (Drag chain).

**03. Line construction:**

03.01 Litz construction:

Wire material: Cu-ETP1 bare acc. DIN EN 13602  
 Wire size: 16 x 0,5 mm<sup>2</sup> +  
 3 x 1,0 mm<sup>2</sup>  
 Litz construction: approx. 64 x Ø 0,10 mm = 0,50 mm<sup>2</sup> (1-6, 8-12, 14-18),  
 approx. 128 x Ø 0,10 mm = 1,00 mm<sup>2</sup> (7, 13, 19)

03.02. Core insulation:

Wire isolation: No adhesion between the cores  
 PP-Polypropylen 9YH  
 Core-diameter: Ø 1,40 ± 0,05 mm (1-6, 8-12, 14-18)/  
 Ø 1,90 ± 0,05 mm (7, 13, 19)  
 Number of wires: 19 (16+3)  
 Correlation Core number-Core color: 1 yellow-brown/YEBN , 2 brown-green/BNGN, 3 white/WH,  
 4 yellow/YE, 5 pink/PK, 6 grey-brown/GYBN, 7 brown/BN,  
 8 violet/VT, 9 red/RD, 10 grey/GY , 11 red-blue/RDBU,  
 12 green/GN, 13 blue/BU , 14 grey-pink/GYPK,  
 15 white-green/WHGN ,16 /white-yellow/WHYE,  
 17 white-grey/WHGY , 18 black/BK , 19 green-yellow/GNYE

03.09. shielding: yes

03.10. Overall shield:

Diameter: C-shielded braid  
 approx. Ø 8,50 mm  
 Material: Cu-ETP1 tinned acc. DIN EN 13602  
 Covering: 85% ±5%

03.13. Outer jacket:

Jacket material: TPU Polyetherurethan 11YH  
 Jacket-diameter: Ø 11,60 ±0,30 mm  
 Jacket color: black matt similarly RAL 9005

Surface free from lubricant and grease.

Color: yellow  
 Printing: \* 352 / \*\* 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.
conductor resistance:	max. 39,0 Ω/km @ (1-6, 8-12, 14-18) max. 19,5 Ω/km @ (7, 13, 19)
Insulation resistance:	> 1000 MΩxkm
Inductance per length unit :	0,65 mH/km
Bending radius in stationary position:	> 5 x D
Bending radius in flexible stress:	> 10 x D
04.04 Drag chain characteristics:	yes
Bending cycles *:	> 2 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.

**05. Burning behavior:**

tests in acc. with:	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
----------------	---

**07. Resistances:**

Oil rest. tests acc. with:	good
others:	good microbes and hydrolysis resistance 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:	Mainly plasticizer diffusion free Exclusion of PVC and Silicone Coldness flexibility

**09. Approvals:**

Jacket:

Core:

**UL/CSA**

cURus in acc. with AWM Style 20549 or 21198 (80 °C / 300 V)

cURus in acc. with AWM Style 10493 (80 °C / 300 V)

product overview

Article-No.	Type
000-070-365	STL 352 525M TROMMEL FÜR 35M STÜCKE
000-104-283	STL 352 560m Trommel für 140m Stücke
193-352-001	STL 352
934-637-305	STL 352/500 M PUR
934-637-306	STL 352/100 M PUR