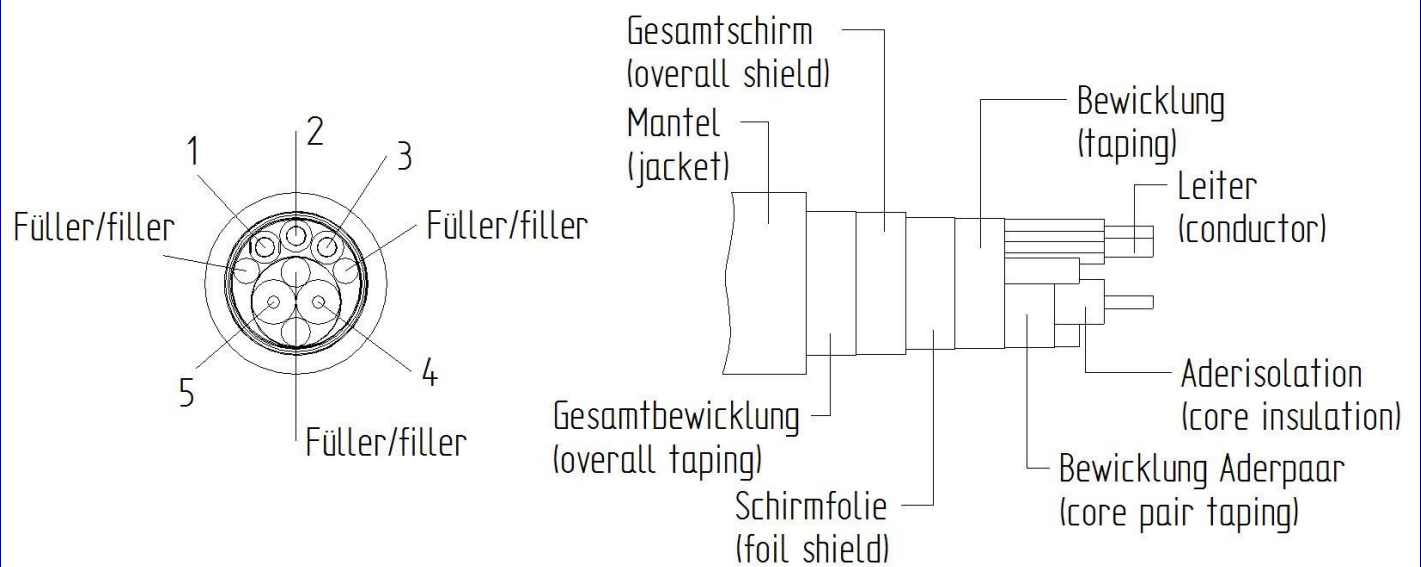
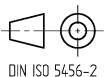


RoHS ✓

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, shielded and flame-retardant Bus 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 DIN VDE 0295, EN 60228, IEC 60228, HD 383
 Wire material: 1-3: Cu-ETP1 tinned acc. to DIN EN 13602
 4-5: Cu-ETP1 bare acc. to DIN EN 13602
 Wire size: 1-3: 0,75 mm²
 4-5: 0,34 mm²
 Litz construction: 1-3: approx. 42 x Ø 0,15 mm, right hand stranding
 4-5: approx. 42 x Ø 0,10 mm, right hand stranding

03.02. Core insulation: No adhesion between the cores
 Wire isolation: 1-3: PP
 4-5: PE foamed
 Core-diameter: 1-3: Ø 2,0 ±0,05 mm
 4-5: Ø 2,7 ±0,05 mm
 Number of wires: 5
 Correlation Core number-Core color: 1 greenyellow/GNYE; 2 blue/BU; 3 black/BK; 4 green/GN;
 5 red/RD

03.09. shielding: yes
 Shielding type: shielding foil
 Diameter: approx. Ø 7,95 mm
 Material: Al PETP-foil
 Covering: 100 %

03.10. Overall shield: mesh wire
 Diameter: approx. Ø 8,55 mm
 Material: Cu-ETP1 tinned acc. DIN EN 13602
 Covering: 85 % ±5 %

03.13. Outer jacket: Surface free from lubricant and grease.
 Jacket material: PUR
 Jacket-diameter: Ø 11,0 ±0,20 mm
 Jacket color: violet matt similarly RAL 4001

Color: yellow
 Printing: * 202 / **

* = Producer identification
 ** = Production-year and -week
 *** = UL-Producer number
 **** = UL-Style-Number
 ***** = PROD Lot N°

04. Characteristics:

04.01 Temperature range:	(Lifetime > 20.000 h)
in stationary position:	- 25 °C - + 80 °C
flexible:	- 5 °C - + 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.):	≥ 1500 V eff.
conductor resistance:	1-3: max. 26,0 Ω/km 4-5: max. 52,5 Ω/km
Insulation resistance:	> 1,0 GΩxkm
Inductance per length unit :	1-3: ... mH/km 4-5: 0,8 mH/km
Operating capacity per length unit :	nom. 37 nF/km @ 800Hz
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 ²
permissible horizontal traverse path:	at 5 m/s ² ► 5 m
permissible vertical traverse path:	at 5 m/s ² ► 2 m
permissible traverse speed at 5 m hor. trav. path:	max. 200 m/min

* depending on horizontal travel length and acceleration, target has to be confirmed by subsequent test after first production

05. Burning behavior:

flame retardant

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

08. Other characteristics:

Exclusion of dangerous materials acc.: 2000/53/EG, 2011/65/EU, 2003/11/EG, 1907/2006/EG

Line fulfills the transmission values of the PROFIBUS-User organisation (IEC61158 and 61784)

good microbes and hydrolysis resistance

good chemical and oil resistance

free of lacquer wetting disturbing substances

Exclusion of Silicone

09. Approvals:

none

Core: -

product overview

Article-No.	Type
000-001-470	STL 202, 2x0,34mm ² +3x0,75mm ² , PUR, vt