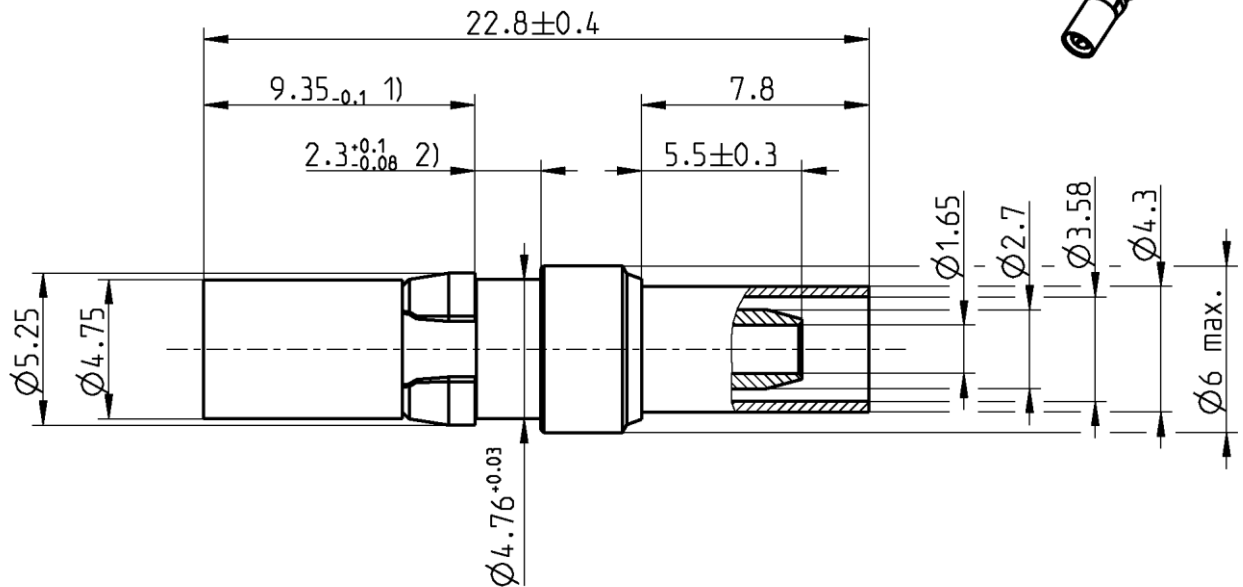


Insert Coax  
1.0-2.3  
DIN 41626

Straight Plug

**45S101-103L5**



- 1) Measured when retaining clip is fully pushed towards contact area.
- 2) The border dimension includes the necessary axial misalignment of the retaining clip.

All dimensions are in mm; tolerances according to ISO 2768 m-H

### Interface

According to

DIN 41626-T2, BS 9525 F0011

### Documents

Assembly instruction

45 A1

### Material and plating

#### Connector parts

Center contact  
Outer contact  
Body  
Clip  
Dielectric  
Crimping ferrule

#### Material

CuBe  
CuBe  
Brass  
CuBe  
PTFE  
Copper

#### Plating

AuroDur®, gold plated  
AuroDur®, gold plated  
Gold, 0.1  $\mu\text{m}$  min.  
Nickel, 2.5-5  $\mu\text{m}$   
Gold, 0.1  $\mu\text{m}$  min.

# Technical Data Sheet

# Rosenberger

Insert Coax  
1.0-2.3  
DIN 41626

Straight Plug

## 45S101-103L5

### Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 21 dB, DC to 2 GHz ≥ 17 dB, 2 to 6 GHz
Insertion loss	≤ 0.1 x $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 200 MΩ
Center contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 3 mΩ
Test voltage	750 V rms
Working voltage	250 V rms
RF-leakage	≥ 80 dB up to 0.5 GHz ≥ 65 dB up to 1.5 GHz

- Limitations are possible due to the used cable type -

### Mechanical data

Mating cycles	≥ 500
Center contact captivation	≥ 10 N
Connector captivation in plastic	≥ 52 N
Engaging and disengaging force	≤ 10 N

### Environmental data

Temperature range	-55°C to +125°C
Climatic class	IEC 60068-2-1 55/125/21 IEC 60068-2-2 IEC 60068-2-3
RoHS	compliant

### Tooling

Crimping tool	11W150-000
Crimp insert	11W150-403

### Suitable cables

RG 316 /U-d, K02252d

### Weight

Weight	1.7 g/pce
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While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Wengler Jürgen	20.08.07	Chr. Janßen	01.12.20	c00	20-1927	S. Huber-Siegl	01.12.20
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