



- 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 D-Sub

**Documents**

Assembly instruction 55 D1

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Clip  
Dielectric

**Material**

CuBe  
Brass  
CuBe  
PTFE

**Plating**

AuroDur®, gold plated  
AuroDur®, gold plated  
Nickel, 2.5-5 µm

**D-SUB STRAIGHT PLUG**  
Coax Insert

**55S103-272L5**

**Electrical data**

Impedance	50 Ω
Frequency	DC to 2 GHz
Return loss	≥ 30 dB, DC to 0.1 GHz ≥ 20 dB, 0.1 to 0.5 GHz ≥ 14 dB, 0.5 to 2 GHz
Insertion loss	≤ 0.1 x √f(GHz) dB, DC to 0.5 GHz
Insulation resistance	≥ 1x10 <sup>4</sup> MΩ
Center contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 3 mΩ
Test voltage	1500 V rms
Working voltage	500 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	≥ 50
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
2002/95/EC (RoHS)	compliant

**Tooling**

Crimping tool	N/A
Crimp insert	N/A

**Suitable cables**

RG 402 / UT 141

**Packing**

Standard	100 pcs in bag
Weight	1.7 g/pce

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.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Entsfallner	13/03/07	Rong Fang	22/10/07	a00	07-s435	A_Wallner	22/10/07
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