



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

**Interface**

According to

Rosenberger WSMP™ Interface standards

**Documents**

Assembly instruction

TBD

**Material and plating**

**Connector parts**

- Center contact
- Outer contact
- Dielectric
- Cable stop

**Material**

- CuBe
- CuBe
- PTFE
- Ultem® 1000

**Plating**

- Gold, min. 1.27 µm, over nickel
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RF\_35/05.10/6.0

# Technical Data Sheet

# Rosenberger

WSMP

Male Full Detent Straight  
to .047 Cable

**W1S101-270D3**

## Electrical data

Impedance	50 Ω
Frequency	DC to 100 GHz
Return loss (typical)	≥ 26 dB, DC to 26.5 GHz ≥ 19 dB, 26.5 to 65 GHz
Insertion loss	≤ 0.12 x $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 3.5 x 10 <sup>3</sup> MΩ
Center contact resistance	≤ 2.0 mΩ
Outer contact resistance	≤ 6.0 mΩ
Test voltage (at sea level)	250 V rms
RF High Potential (at sea level)	150 V rms @ 5 MHz
RF-leakage	≥ -80 dB (typical mated pair)

- Limitations are possible due to the used cable type

## Mechanical data

Mating cycles	
- Full Detent	≥ 100
Engagement force (typical)	
- Full Detent	11 N [2.5 lbs <sub>f</sub> ]
Disengagement force (typical)	
- Full Detent	20 N [4.5 lbs <sub>f</sub> ]

## Environmental data

Temperature range	-55° to +165°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101
Vibration	MIL-STD-202, Meth. 204, Cond. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance 2002/95/EC (RoHS)	MIL-STD-202, Meth. 106, except Step 7B compliant

## Tooling

Extraction tool	W1W001-000
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## Suitable cables

UT 47 or RTK 047 or RTK-Flex 047

## Packing

Standard	100 pcs in a bag
Weight	xx.x g/pce (TBD)

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
Jac Havener	6/22/2011	Paul Czikora	6/22/2011	100	13-e000 Preliminary	P.Czikora	3/11/2013

  

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