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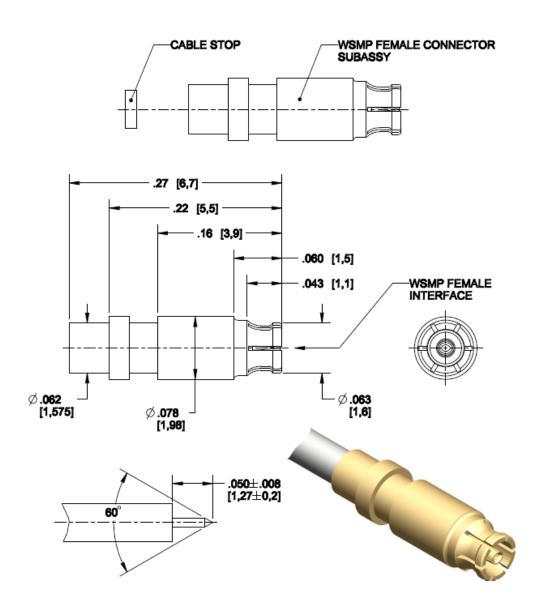
**Technical Data Sheet** 

Rosenberger

**WSMP** 

STRAIGHT JACK

W1K101-270D3



All dimensions are in inches [mm]

### Interface

According to

Material and plating

**Connector parts** 

Body

Contact

Dielectric

Cable Stop

Rosenberger WSMP™ Interface standards

Material

CuBe per ASTM B196

CuBe per ASTM B196

**PTFE** 

Ultem® 1000

**Plating** 

Hard Gold, 50μIN [1,27μm] min, over Nickel, 50μIN [1,27μm] min

Hard Gold, 50µIN [1,27µm] min, over

Nickel, 50µIN [1,27µm] min

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### **Technical Data Sheet**

## Rosenberger

### **WSMP**

STRAIGHT JACK

W1K101-270D3

### Electrical data

Impedance Frequency

Return loss (typical)

Insertion loss

Insulation resistance Center contact resistance Outer contact resistance Test voltage (at sea level) RF High Potential (at sea level)

RF-leakage

 $50 \Omega$ 

DC to 100 GHz

 $\geq$  26 dB, DC to 26.5 GHz

≥ 19 dB, 26.5 to 65 GHz

 $\leq 0.12 \text{ x } \sqrt{f(GHz)} dB$ 

 $\geq 3.5 \times 10^3 M\Omega$ 

 $\leq$  6.0 m $\Omega$ 

 $\leq$  2.0 m $\Omega$ 

250 V rms

150 V rms @ 5 MHz

≥ -80 dB (typical mated pair)

### Mechanical data

Mating cycles

Full Detent

Smooth Bore

Engagement force (typical)

Full Detent

Smooth Bore

Disengagement force (typical)

Full Detent

Smooth Bore

≥ 100

≥ 500

2.5 lb<sub>f</sub> [11 N]

1.2 lb<sub>f</sub> [5.3 N]

4.5 lb<sub>f</sub> [20 N]

1.0 lb<sub>f</sub> [4.5 N]

### **Environmental data**

Temperature range

Thermal shock

Corrosion

Vibration Shock

Moisture resistance

2002/95/EC (RoHS)

-55°C to +165°C

MIL-STD-202-107, Condition B

MIL-STD-202-101

MIL-STD-202-204, Condition D

MIL-STD-202-213, Condition I MIL-STD-202-106, except Step 7B

compliant

### Tooling

Extraction tool

W1W001-000

### Suitable cables

UT047-TP, RTK 047, RTK FLEX 047

**Packing** 

Standard

Draft	Date	Approved	Date
Jac Havener	6/22/2011	Paul Czikora	6/22/2011

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Rev.	Engineering change number	Name	Date
a01	Revised Per ECN 18-0001	R. Shirey	9/4/2018

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