



All dimensions are in inches [mm]

**Interface**

According to

Rosenberger WSMP™ Interface standards

**Material and plating**

**Connector parts**  
Body and contact

**Material**  
Kovar® per ASTM F15

**Plating**  
Hard gold 6µIN [0,15µm] min, over  
Nickel, 80µIN [2,0µm] min

Dielectric

Corning 7070 Glass

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**Electrical data**

Impedance	50 Ω
Frequency	DC to 80 GHz
Return loss (typical)*	≥ 26 dB, DC to 40 GHz ≥ 19 dB, 40 to 50 GHz ≥ 14 dB, 50 to 70 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)

\*Connector only, return loss in application depends decisively on PCB layout

**Mechanical data**

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

**Environmental data**

Temperature range	-55°C to +165°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106, except Step 7B
Max soldering temperature	IEC 61760-1, +500°F [+260°C] for 10 seconds
2002/95/EC (RoHS)	compliant

**Tooling**

Extraction tool	N/A
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**Suitable cables**

N/A

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RF\_35/05.10/6.0

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
R. Fisher	6/30/16	R. Hosler	6/30/16	a00	ECN 17-1092	J. Havener	6/27/17
Rosenberger of North America, LLC P.O. Box 309 Akron, PA USA 17501 <a href="http://www.rosenbergerna.com">www.rosenbergerna.com</a>				Tel. : +1.717.859.8900 Fax : +1.717.859.7044 Email : <a href="mailto:info@rosenbergerna.com">info@rosenbergerna.com</a>			Page 2 / 2

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