



All dimensions are in inches [mm]

Interface

According to

Rosenberger WSMP™ Interface standards

Documents

Assembly instruction

W1S

Material and plating

Connector parts

Body and center contact

Material

BeCu

Plating

Hard gold, 50µIN [1,27µm] min, over nickel, 50µIN [1,27µm] min

Dielectric

PTFE

Cable stop

Ultem® 1000

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WSMP

Straight Male Smooth Bore
Cable Plug

W1S141-270D3

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 √f(GHz) dB
Insulation resistance	≥ 3.5 x10 ³ 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)

Mechanical data

Mating cycles	
- Smooth Bore mating plug	≥ 500
Engagement force (typical)	
- Smooth Bore	1.2 lb _f [5.3 N]
Disengagement force (typical)	
- Smooth Bore	1.0 lb _f [4.5 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
2002/95/EC (RoHS)	compliant

Tooling

Extraction tool	W1W001-000
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Suitable cables

UT047-TP, RTK 047, RTK-FLEX 047

Packing

Standard	100 pcs in a bag
Weight	.000247 lb [0,112 g] / pc

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RF_35/05.10/6.0

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
R. Hosler	9/18/2013	M. Peeran	9/18/2013	a01	ECN 14-1376	M. Peeran	9/26/2014
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