



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 x10³ 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

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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