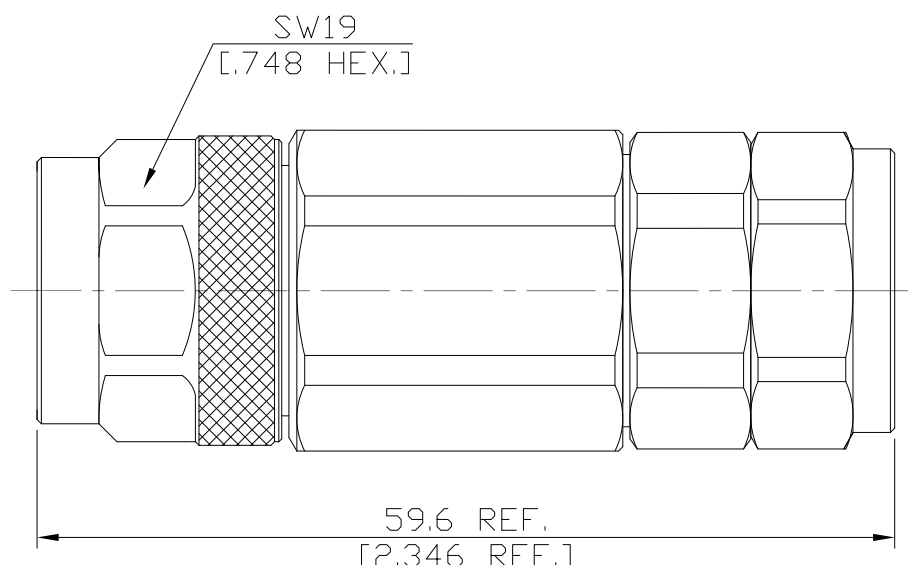


N Plug (Male) Straight Connector, Clamp / Contact Pin Plug-in Attachment for
1/2" CELLFLEX® LCF12 Coaxial Cables, DC-8GHz

N1D50-LCF12-50J / 944



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

According to

IEC 60169-16; MIL-STD-348B/304; CECC22210; MIL-PRF-39012

Electrical Data

Impedance

50 Ω

Frequency

DC to 8 GHz

VSWR (Return Loss)

≤ 1.25 (≥ 19.08 dB)

Insertion loss

≤ 0.05 dB

Insulation Resistance

≥ 5 GΩ

Center Contact Resistance

≤ 1 mΩ

Outer Contact Resistance

≤ 0.25 mΩ

Working Voltage(at sea level)

500 V rms

Power Handling (at 20 °C, sea level, VSWR 1.0)

1000 W @ 1 GHz

700 W @ 2 GHz

-VSWR in application depends decisive on cable assembly process-

Material and Plating

Piece Parts	Material	Plating
Centre Contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling Nut	Brass	Copper-Tin-Zinc Alloy

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Mechanical Data

Coupling Mechanisms	Screw-On
Mating Cycles	≥ 500
Coupling Nut Retention	≥450N
Center Contact Captivation: axial	≥ 28 N
radial	≥ 3 Ncm
Centre Contact	Plug-in
Cable Entry	Clamped
Coupling Test Torque	max. 1.7 Nm
Recommended Torque	1.0 Nm

Environmental Data

Temperature Range	-65°C to +165°C
Thermal Shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture Resistance	MIL-STD-202, Meth. 106
RoHS	Compliant

Suitable Cables

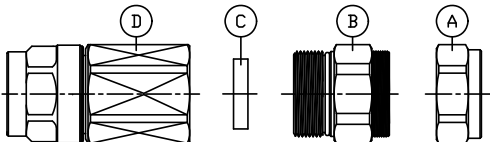
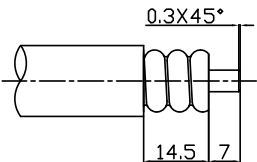
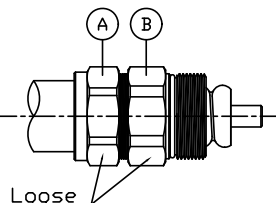
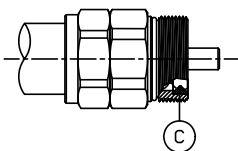
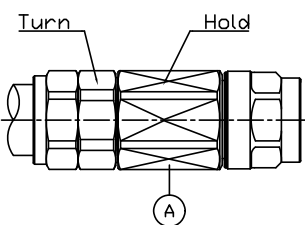
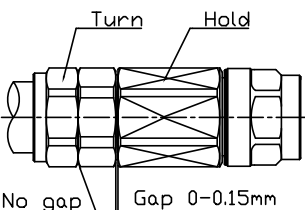
LCF12-50J

Packing

Single or 100

N Plug (Male) Straight Connector, Clamp / Contact Pin Plug-in Attachment for 1/2" CELLFLEX® LCF12 Coaxial Cables, DC-8GHz

N1D50-LCF12-50J / 944

Connector Type:	N1D50-LCF12-50J / 944	Inner Conductor Contact:	Plug-in
Suitable Cable:	1/2" annular corrugation cable	Outer Conductor Contact:	Clamp
Parts List of Connector: 			
Assembly Steps:			
Picture	Process	Attention/Check	Tools Required
 (Unit:mm)	Prepare the cable according to the picture.	Chamfer centre conductor. Do not damage the outer conductor.	Cable Cutter. Cable stripping blade. File.
	Slide the back nut onto the cable until it is completely seated. Please loose the sealing nut slightly to easily install the back nut.		
	Press the clamp ring on the outer conductor. Expand the outer conductor. No cracks allowed. Push the back nut until the clamp ring slides into the back nut.	Proper shape after flaring. Please don't hurt the center conductor. Clean the cable end . Also ensure that there is no dirt inside the connector head.	Screwdriver. Expanded tool.
	Put the connector head onto the cable and fix it with the back nut by hand. Only turn the back nut, not the connector head. Tighten the connector head and the back nut with wrenches until stop.	Recommended torque: 18 - 22 Nm.	Spanners.
	Tighten the sealing nut with wrenches .	Recommended torque: 5 - 8 Nm.	Spanners.