LHM RESEARCH
Unlocking New Frontiers

Technical Data Sheet

0.76M N TYPE MALE TO N TYPE MALE RIGHT ANGLE

30in DC-8 GHz Braided Jacket

LHM-11N0876211N08R-0053

Key Features

- N Type male straight to N Type male right-angle connector configuration.
- 50 Ohm RF coaxial cable assembly.
- Flexible .141" / SS402 reference construction with PTFE dielectric, silver-plated copper shielding and FEP jacket.

Environmental Specifications

- Reference temperature rating: -40 deg C to +85 deg C.
- Minimum bending radius: 20 mm.

Compliance Certification

- RoHS compliant per the reference product specification.

Electrical Specifications

Parameter	Specification
Frequency Range	DC-8 GHz
Impedance	50 Ohm
VSWR	<= 1.35:1 DC 0 to 8 GHz)
Insertion Loss	Depends on cable length
Voltage Rating	335 V(rms)
Dielectric Withstanding Voltage	500 V
Insulation Resistance	>= 500 Mohm

Mechanical Specifications

Parameter	Specification
Connector 1	N Type male, straight
Connector 2	N Type male, right angle
Body Material / Plating	Brass, nickel plated (reference webpage)
Mating Cycles	>= 500 cycles
Mating Torque	30 in-lbs
Minimum Bend Radius	20 mm

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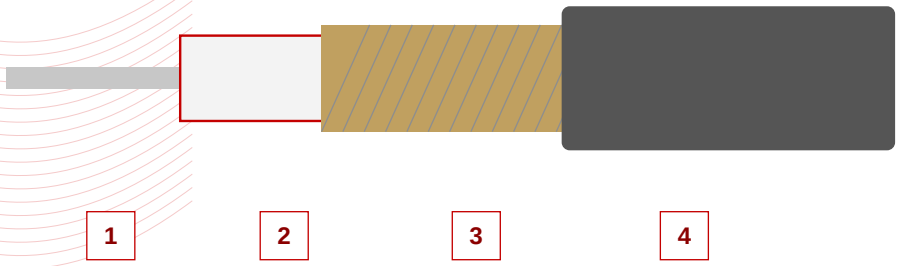

Structural Construction

Structure	Dimension / Value	Material
1. Center Conductor	To Be Confirmed	Silver-plated copper
2. Dielectric	To Be Confirmed	Low-density PTFE
3. Shielding	Multi-layer	Silver-plated copper spiral inner shield + braided outer shield
4. Jacket	4.10 +/- 0.05 mm OD	FEP

Cable Performance Reference

Frequency (GHz)	Attenuation (dB/m)	Frequency (GHz)	Attenuation (dB/m)
0.5	0.27	6	1.19
1	0.41	8	1.39
2	0.62	10	1.58
3	0.78	15	2.01
5	1.05	18	2.22

Environmental Test Reference

Test	Requirement / Method
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D, 20 Gs
Shock	MIL-STD-202, Method 213, Condition I, 100 Gs
Thermal Shock	MIL-STD-202, Method 107, Condition B, -40 deg C to +85 deg C
Moisture Resistance	MIL-STD-202, Method 106, Less Step 7B
Barometric Pressure (Altitude)	MIL-STD-202, Method 105, Condition C, 70k ft