

L4NM-CC

Type N Male Compression connector for 1/2 in LDF4-50A, HL4RPV-50 cable

- This product is part of the ANDREW Wired for Wireless® Solution

Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX®
Product Series	LDF4-50A
Ordering Note	ANDREW® standard product (Global)

General Specifications

Body Style	Straight
Cable Family	LDF4-50A
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	N Male
Mounting Angle	Straight
Outer Contact Attachment Method	Compression
Outer Contact Plating	Trimetal

Dimensions

Length	71.8 mm 2.827 in
Diameter	26 mm 1.024 in
Nominal Size	1/2 in

Electrical Specifications

3rd Order IMD at Frequency	-117 dBm @ 1800 MHz -117 dBm @ 1900 MHz -117 dBm @ 900 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss Coefficient, typical	0.05
Average Power at Frequency	0.6 kW @ 900 MHz
Connector Impedance	50 ohm
dc Test Voltage	2500 V
Inner Contact Resistance, maximum	0.8 mOhm

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Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz 0 – 8800 MHz
Outer Contact Resistance, maximum	0.25 mOhm
Peak Power, maximum	0.2 kW
RF Operating Voltage, maximum (vrms)	707 V
Shielding Effectiveness	-90 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–1000 MHz	1.065	30.04
1000–2200 MHz	1.082	28.09
2200–2700 MHz	1.1	26.44
2700–3600 MHz	1.15	23.13
3400–4200 MHz	1.18	21.66
4200–6000 MHz	1.22	20.08

Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	889.64 N 200 lbf
Connector Retention Torque	5.42 N-m 47.998 in lb
Coupling Nut Proof Torque	4.52 N-m 39.997 in lb
Coupling Nut Retention Force	444.82 N 100 lbf
Coupling Nut Retention Force Method	MIL-C-39012C-3.25, 4.6.22
Insertion Force	66.72 N 15 lbf
Insertion Force Method	MIL-C-39012C-3.12, 4.6.9
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Mechanical Shock Test Method	MIL-STD-202, Method 213, Test Condition I

Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Corrosion Test Method	MIL-STD-1344A, Method 1001.1, Test Condition A

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Immersion Depth	1 m
Immersion Test Mating	Unmated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	MIL-STD-202F, Method 106F
Thermal Shock Test Method	MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C
Vibration Test Method	IEC 60068-2-6
Water Jetting Test Mating	Unmated
Water Jetting Test Method	IEC 60529:2001, IP66

Packaging and Weights

Weight, net	151.83 g 0.335 lb
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* Footnotes

Insertion Loss Coefficient, typical 0.05√freq (GHz) (not applicable for elliptical waveguide)

Immersion Depth Immersion at specified depth for 24 hours