

L1HM-D



4.3-10 Male for 1/4 in LDF1-50 cable

Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX®

General Specifications

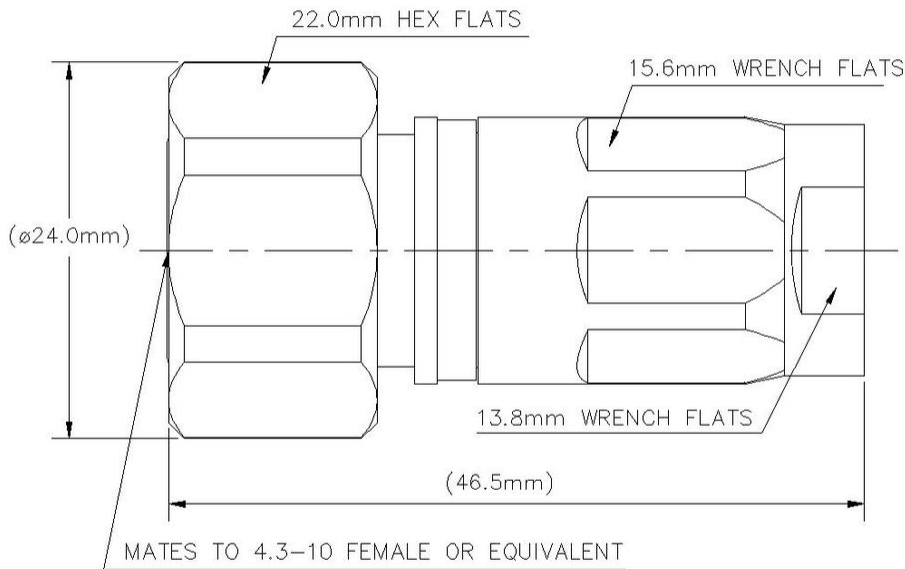
Body Style	Straight
Cable Family	LDF1-50
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	4.3-10 Male
Mounting Angle	Straight
Outer Contact Attachment Method	Self-flare
Outer Contact Plating	Trimetal

Dimensions

Length	1.83 in 46.482 mm
Diameter	0.94 in 23.876 mm
Nominal Size	1/4 in

Outline Drawing

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Electrical Specifications

3rd Order IMD at Frequency	-116 dBm @ 1800 MHz
3rd Order IMD Dynamic Test Method	Two +43 dBm carriers
3rd Order IMD Dynamic, typical	-116 dB
Insertion Loss, typical	0.05 dB
Attenuation, Ambient Temperature	20 °C 68 °F
Average Power at Frequency	600.0 W @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2200 V
Inner Contact Resistance, maximum	0.8 mOhm
Insulation Resistance, minimum	5000 MOhm

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Operating Frequency Band	0 – 12000 MHz
Outer Contact Resistance, maximum	1.5 mOhm
Peak Power, maximum	10 kW
RF Operating Voltage, maximum (vrms)	707 V
Shielding Effectiveness	-110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45–2700 MHz	1.05	34
2700–4000 MHz	1.06	32
4000–6000 MHz	1.11	26

Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	101 lbf 449.27 N
Coupling Nut Proof Torque	88.51 in lb 10 N-m
Coupling Nut Retention Force	101 lbf 449.27 N
Interface Durability	100 cycles
Interface Durability Method	IEC 61169-4:9.5
Mechanical Shock Test Method	IEC 60068-2-27

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)
Average Power, Ambient Temperature	40 °C 104 °F
Corrosion Test Method	IEC 60068-2-11
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	IEC 60068-2-3
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6
Water Jetting Test Mating	Mated

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Water Jetting Test Method

IEC 60529:2001, IP66

Packaging and Weights

Weight, net

61.51 g | 0.136 lb

Regulatory Compliance/Certifications

Agency

ISO 9001:2015

Classification

Designed, manufactured and/or distributed under this quality management system



* Footnotes

Immersion Depth

Immersion at specified depth for 24 hours

Insertion Loss, typical

$0.05\sqrt{\text{freq}}$ (GHz) (not applicable for elliptical waveguide)