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F1PTM-HF

TNC Male for 1/4 in FSJ1-50A cable



## General Specifications

Interface	TNC Male
Body Style	Straight
Brand	HELIAX®
Mounting Angle	Straight

## Electrical Specifications

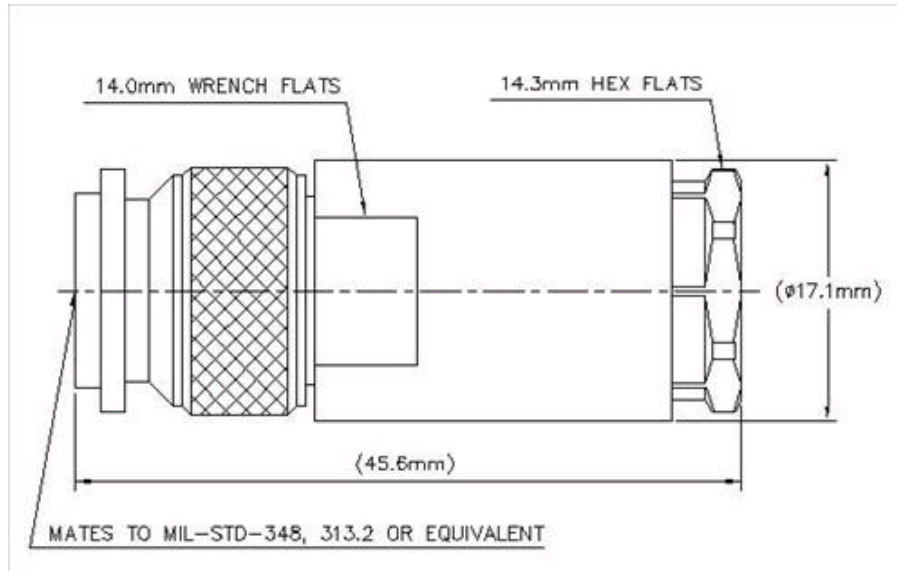
Connector Impedance	50 ohm
Operating Frequency Band	0 – 18000 MHz
Cable Impedance	50 ohm
RF Operating Voltage, maximum (vrms)	500.00 V
dc Test Voltage	1500 V
Outer Contact Resistance, maximum	0.40 mOhm
Inner Contact Resistance, maximum	1.50 mOhm
Insulation Resistance, minimum	5000 MOhm
Average Power	0.4 kW @ 900 MHz
Peak Power, maximum	5.00 kW
Shielding Effectiveness	-110 dB

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## Outline Drawing



## Mechanical Specifications

Outer Contact Attachment Method	Tab-flare
Inner Contact Attachment Method	Captivated
Outer Contact Plating	Trimetal
Inner Contact Plating	Gold
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-4:17
Connector Retention Tensile Force	450 N   101 lbf
Connector Retention Torque	1.40 N-m   1.03 ft lb
Insertion Force	66.72 N   15.00 lbf
Insertion Force Method	IEC 61169-16:9.3.5
Pressurizable	No
Coupling Nut Proof Torque	1.70 N-m   1.25 ft lb
Coupling Nut Proof Torque Method	IEC 61169-16:9.3.11
Coupling Nut Retention Force	445.00 N   100.04 lbf
Coupling Nut Retention Force Method	IEC 61169-17:9.3.11

## Dimensions

Nominal Size	1/4 in
Diameter	17.07 mm   0.67 in
Height	17.07 mm   0.67 in
Length	45.67 mm   1.80 in
Weight	62.00 g   0.14 lb
Width	17.07 mm   0.67 in

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## Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-65 °C to +125 °C (-85 °F to +257 °F)
Moisture Resistance Test Method	IEC 60068-2-3
Mechanical Shock Test Method	IEC 60068-2-27
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6
Corrosion Test Method	IEC 60068-2-11

## Standard Conditions

Attenuation, Ambient Temperature	20 °C   68 °F
Average Power, Ambient Temperature	40 °C   104 °F
Average Power, Inner Conductor Temperature	100 °C   212 °F

## Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
45–1800 MHz	1.07	30.00
1800–3600 MHz	1.08	28.00
3600–5400 MHz	1.12	25.00
3600–9000 MHz	1.17	22.00
9000–16200 MHz	1.22	20.00
16200–18000 MHz	1.5	14.00

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

