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

OBSOLETE This product was discontinued on: March 21, 20 Replaced By:	13		
Product Classification			
Product Type	Wireless and radiating connector		
Product Brand	HELIAX®		
General Specifications			
Body Style	Straight		
Cable Family	FSJ1-50A		
Inner Contact Attachment Method	Captivated		
Inner Contact Plating	Gold		
Interface	TNC Male		
Mounting Angle	Straight		
Outer Contact Attachment Method	Tab-flare		
Outer Contact Plating	Trimetal		
Pressurizable	No		
Dimensions			
Height	17.02 mm 0.67 in		
Width	17.02 mm 0.67 in		
Length	45.72 mm 1.8 in		
Diameter	17.02 mm 0.67 in		
Nominal Size	1/4 in		

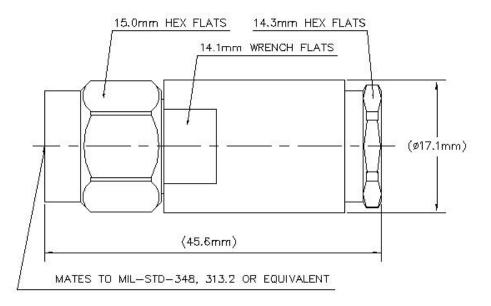
Outline Drawing

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COMMSCOPE°

F1PTM-HF-MT



Electrical Specifications

3rd Order IMD at Frequency	-112 dBm @ 910 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Average Power at Frequency	0.4 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	1500 V
Inner Contact Resistance, maximum	1.5 m0hm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	0.4 mOhm
Peak Power, maximum	5 kW
RF Operating Voltage, maximum (vrms)	500 V
Shielding Effectiveness	-110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
824–2700 MHz	1.032	36.06
3000–6000 MHz	1.3	17.7

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F1PTM-HF-MT

Mechanical Specifications

Connector Retention Tensile Force	449.27 N 101 lbf
Coupling Nut Proof Torque	1.7 N-m 15.046 in lb
Coupling Nut Proof Torque Method	IEC 61169-16:9.3.11
Coupling Nut Retention Force	445 N 100.04 lbf
Coupling Nut Retention Force Method	IEC 61169-17:9.3.11
Insertion Force	66.72 N 15 lbf
Insertion Force Method	IEC 61169-16:9.3.5
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-4:17
Mechanical Shock Test Method	IEC 60068-2-27

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)
Attenuation, Ambient Temperature	20 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F
Average Power, Inner Conductor Temperature	100 °C 212 °F
Corrosion Test Method	IEC 60068-2-11
Moisture Resistance Test Method	IEC 60068-2-3
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6

Packaging and Weights

Weight, net

61.21 g | 0.135 lb

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