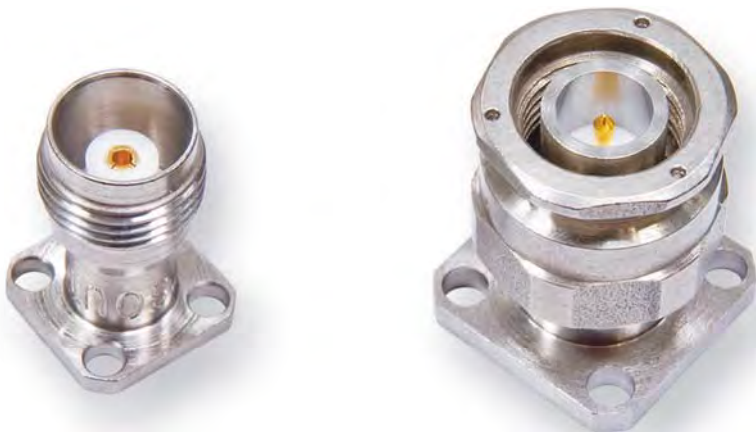


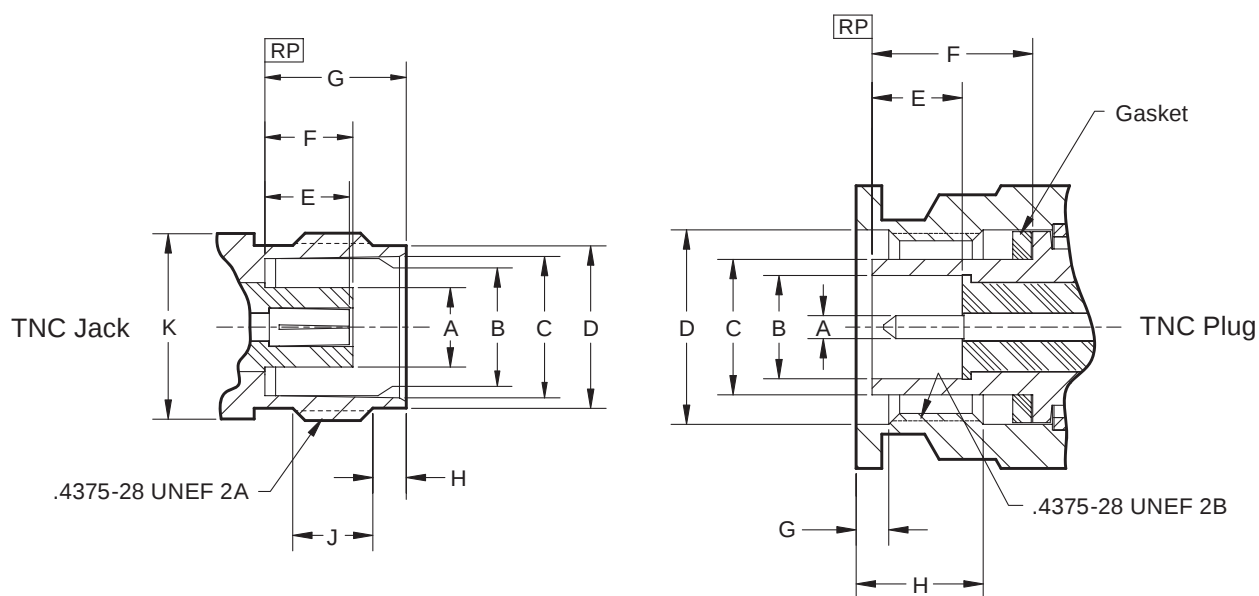


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TNC Series

Interface Standards



TNC Jack (Socket Contact)

LTR	Inches (Millimeters)			
	Minimum		Maximum	
A	.184	(4.67)	.186	(4.72)
B	.319	(8.10)	.321	(8.15)
C	.327	(8.31)	.333	(8.46)
D	.378	(9.60)	.381	(9.68)
E	.201	(5.11)	.206	(5.23)
F	.198	(5.03)	.208	(5.28)
G	.327	(8.31)	.333	(8.46)
H	.068	(1.73)	.088	(2.24)
J	.187	(4.75)	.210	(5.33)
K	.425	(10.80)	.440	(11.18)
	Inch	(mm)	Inch	(mm)

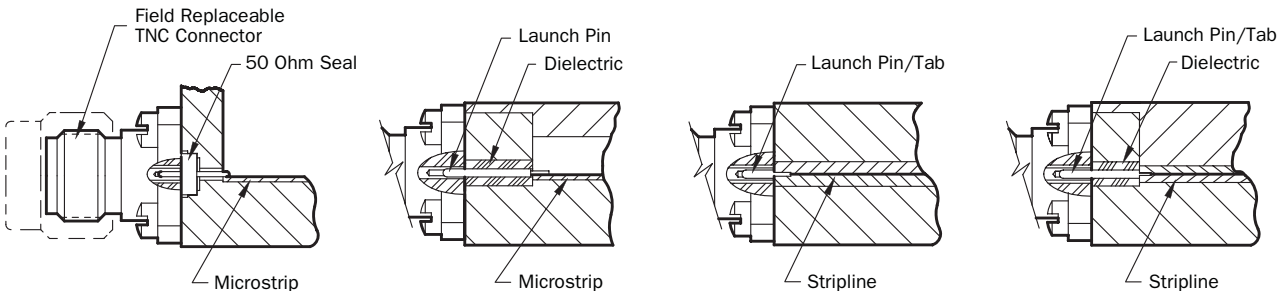
TNC Plug (Pin Contact)

LTR	Inches (Millimeters)			
	Minimum		Maximum	
A	.052	(1.32)	.054	(1.37)
B	.238	(6.05)	.242	(6.15)
C	.314	(7.98)	.318	(8.08)
D	.440	(11.18)	—	—
E	.208	(5.28)	—	—
F	.365	(9.27)	.385	(9.78)
G	.063	(1.60)	—	—
H	.265	(6.73)	.280	(7.11)
	Inch	(mm)	Inch	(mm)

Note: Interface I.A.W. MIL-PRF-39012 and MIL-STD-348, Figures 313-1 and 313-2.

Specifications

Applications



- Available Accessories:**
 - 50 Ohm Seal
 - Launch Pin & Dielectric
 - Launch Pin/Tab
 - Launch Pin/Tab & Dielectric
- See Launch Accessories Section.

- Electrical:**
 - Mode Free Through 18.0 GHz
 - Low VSWR: DC to 18.0 GHz.....1.15:1 max
 - Low RF Leakage ≤ -100 dB
 - Low Insertion Loss

- Materials / Construction:**
 - Housing: Steel, CRES Alloy UNS S30300 Per ASTM A582, Passivated Per ASTM A967
 - Contact: Beryllium Copper (BeCu), UNS C17300 Per ASTM B196, Gold Plated Per MIL-G-45204 or ASTM B488
 - Dielectric: Virgin PTFE Fluorocarbon Per ASTM D1710
 - Center Contact Capture: High Temperature Ultem 1000 Per ASTM D5205
 - Connector Interface: Per MIL-STD-348, Figs. 313-1 and 313-2
 - Raised Metal Grounding Ring for 360° Metal-to-metal Contact

- Environmental:**
 - Temperature: -55° C to +165° C



TNC Series DC to 18.0 GHz

上海馥莱电子有限公司
021-5291 8556
137-6044-1515
sales@fulai-elec.com
www.fulai-elec.com

Super SMA
Connectors

N Series
Connectors

TNC
Connectors

SSMA
Connectors

2.92 mm
Connectors

2.40 mm
Connectors

End Launch
Connectors

Adapters

Cable
Connectors

Launch
Accessories

Installation
and Tools

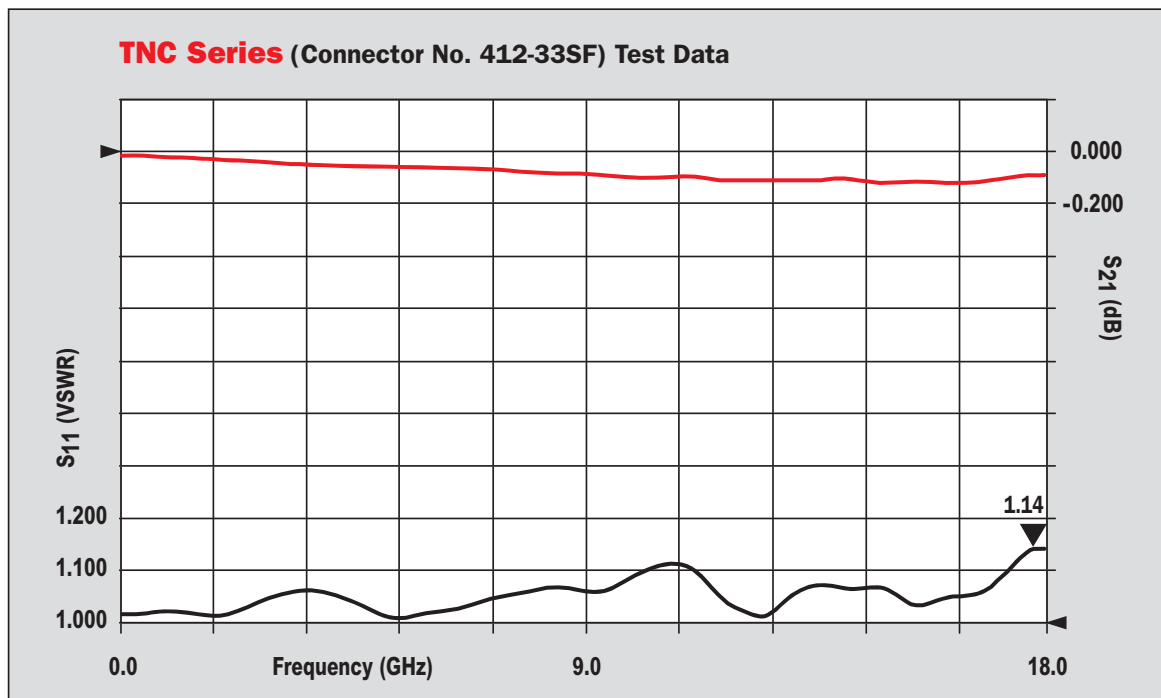
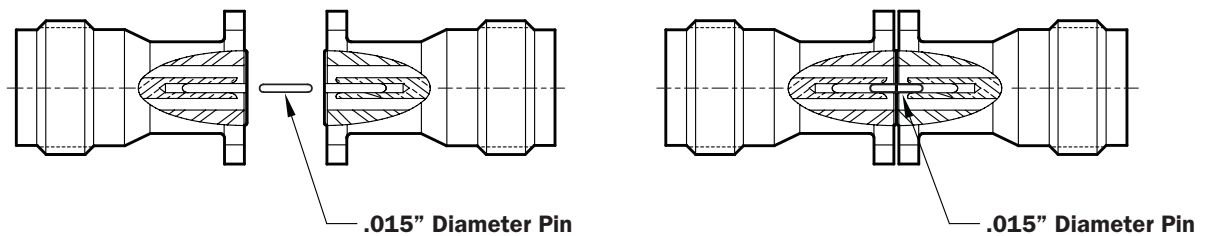
TNC JACK (FEMALE) 4 HOLE .500" SQUARE		<table><tr><th>* ACCEPTS PIN DIA.</th><th>Connector No.</th></tr><tr><td>.036</td><td>412-32SF</td></tr><tr><td>.020</td><td>412-31SF</td></tr><tr><td>.018</td><td>412-30SF</td></tr><tr><td>.015</td><td>412-33SF</td></tr></table>	* ACCEPTS PIN DIA.	Connector No.	.036	412-32SF	.020	412-31SF	.018	412-30SF	.015	412-33SF
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.015	412-33SF											
TNC JACK (FEMALE) 4 HOLE .687" SQUARE		<table><tr><th>* ACCEPTS PIN DIA.</th><th>Connector No.</th></tr><tr><td>.036</td><td>412-36SF</td></tr><tr><td>.020</td><td>412-35SF</td></tr><tr><td>.018</td><td>412-34SF</td></tr><tr><td>.015</td><td>412-29SF</td></tr></table>	* ACCEPTS PIN DIA.	Connector No.	.036	412-36SF	.020	412-35SF	.018	412-34SF	.015	412-29SF
* ACCEPTS PIN DIA.	Connector No.											
.036	412-36SF											
.020	412-35SF											
.018	412-34SF											
.015	412-29SF											
TNC PLUG (MALE) 4 HOLE .687" SQUARE		<table><tr><th>* ACCEPTS PIN DIA.</th><th>Connector No.</th></tr><tr><td>.036</td><td>411-01SF</td></tr><tr><td>.020</td><td>411-02SF</td></tr><tr><td>.018</td><td>411-03SF</td></tr><tr><td>.015</td><td>411-04SF</td></tr></table>	* ACCEPTS PIN DIA.	Connector No.	.036	411-01SF	.020	411-02SF	.018	411-03SF	.015	411-04SF
* ACCEPTS PIN DIA.	Connector No.											
.036	411-01SF											
.020	411-02SF											
.018	411-03SF											
.015	411-04SF											
TNC JACK (FEMALE) THREAD-IN WAVEGUIDE		<table><tr><th>Probe Size</th><th>Connector No.</th></tr><tr><td>.050D x 740L</td><td>420-14SF</td></tr></table>	Probe Size	Connector No.	.050D x 740L	420-14SF						
Probe Size	Connector No.											
.050D x 740L	420-14SF											

Typical Test Data

Back-to-Back Connector Testing

Back-to-back testing shows data for two connectors. Any internal mismatches within the connector will phase together when tested through 18.0 GHz. Taking the square root of the peak VSWR will provide the value for a single connector.

Connector No. 412-33SF with .015" **Test Pin**



$$\sqrt{1.14} = 1.07 \text{ Maximum for each connector}$$