

# Precision Fixed Terminations

TNC (332 series), AFTNC (8684 series) and TNCA (8674 series)

## Features

- ▶ Low VSWR
- ▶ DC to 20 GHz

## Description

These TNC, AFTNC, and TNCA units are precision, broadband, low VSWR fixed terminations suited to a variety of general purpose and precision laboratory applications. Depending upon the frequency range and required calibration effectiveness of a vector network analyzer (VNA) specific models can be used for full or low-band one-port  $Z_0$  calibration and full two-port, isolation calibration.

## Connector Description

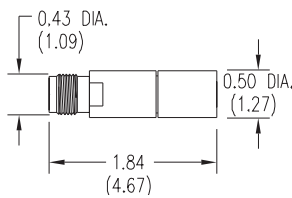
Maury TNC connectors (MPC/TNC) on the are precision stainless steel connectors that mate with MIL-C-39012 and MIL-T-81490 connectors. These low VSWR connectors rated from DC to 18.0 GHz.

Maury AFTNC connectors fully comply with the requirements of MIL-C-87104/2. The male connector utilizes a solid outer conductor configuration to provide consistent measurement results. Connector bodies are fabricated from stainless steel for strength and durability. These connectors were developed using optimized HFSS simulation to provide extremely low VSWR, and they are rated to 20 GHz.

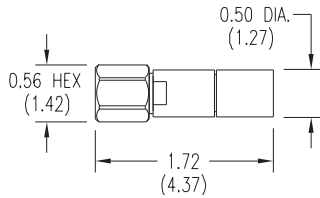
Maury TNCA connectors fully comply with the requirements of MIL-STD 348A. The male connector utilizes a solid outer conductor configuration to provide consistent measurement results. Connector bodies are fabricated from stainless steel for strength and durability.

## Dimensions – Inches (cm)

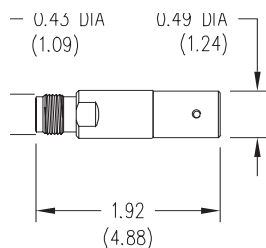
332A Female



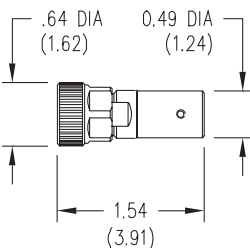
332B Male



8684A & 8674A Female



8684B & 8674B Male



## Available Models

MODEL FEMALE	MODEL MALE	FREQUENCY RANGE (GHz)	MAXIMUM VSWR	CONNECTOR TYPE
332A	332B	DC – 4.0	1.10	TNC <sup>1</sup>
		4.0 – 12.0	1.15	
		12.0 – 18.0	1.20	
332E	332F	DC – 4.0	1.06	TNC <sup>1</sup>
		4.0 – 12.0	1.10	
		12.0 – 18.0	1.15	
332G	332H	DC – 2.0	1.02	TNC <sup>1</sup>
		2.0 – 4.0	1.05	
332A3	332B3	DC – 3.0	1.02	TNC <sup>1</sup>
		3.0 – 6.0	1.04	
332A8	332B8	DC – 3.0	1.03	TNC <sup>1</sup>
		3.0 – 13.5	1.06	
332A9	332B9	DC – 3.0	1.03	TNC <sup>1</sup>
		3.0 – 18.0	1.10	
332A5	332B5	DC – 12.0	1.25	TNC <sup>1</sup>
		12.0 – 18.0	1.10	
8684A	8684B	DC – 4.0	1.04	AFTNC <sup>2</sup>
		4.0 – 12.0	1.08	
8674A	8674B	DC – 4.0	1.04	TNCA <sup>3</sup>
		4.0 – 12.0	1.08	
		12.0 – 20.0	1.10	

## Specifications

Frequency Range, VSWR . . . . . See chart  
 Power Rating . . . . . 1 watt CW, 1 kW peak  
 Impedance . . . . . 50 ohm (nominal)  
 Connectors:  
 332 series . . . . . TNC <sup>1</sup>  
 8684 series . . . . . AFTNC <sup>2</sup>  
 8674 series . . . . . TNCA <sup>3</sup>  
 Size . . . . . (see Dimensions)

<sup>1</sup> Precision TNC per Maury data sheet 5E-053.  
<sup>2</sup> Precision TNC MIL-C-87104/2 per Maury data sheet 5E-056.  
<sup>3</sup> Precision TNC MIL-STD 348A per Maury data sheet 5E-058.