



PRECISION ADAPTERS

3.5mm to TNC



Description

The models in this series are precision 3.5mm to TNC adapters featuring low VSWR and insertion loss. They are "phase matched" (have the same electrical insertion length) so they can be interchanged in network analyzer measurement setups. They are constructed with stainless steel bodies with gold plated copper alloy center conductors. The drawings at right show the connector combinations and physical dimensions of the available models.

Specifications

Frequency Range: DC - 34.0 GHz

Maximum VSWR:

DC - 4.0 GHz 1.06 max (<1.03 typical)

4.0 - 8.0 GHz 1.14 max (<1.07 typical)

8.0 - 18.0 GHz 1.20 max (<1.15 typical)

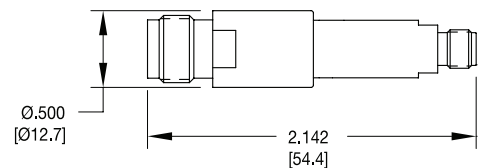
Nominal Impedance: 50 ohms

Insertion Length: 1.62 in. (4.11 cm)

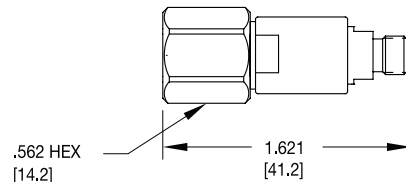
TNC Connector Description

Maury precision TNC connectors are designated as MPC/TNC. MPC/TNC connectors mate with most TNC connector versions in use today, and specifically with MIL-348A/Fig. 313 and MIL-T-81490 connectors. The connector bodies are normally made from stainless steel (other materials are used for specific applications), and are supplied with either gold plated and heat treated beryllium copper contacts for the female connectors or gold plated brass contacts for the male connectors. MPC/TNC connectors are provided on a variety of Maury precision components and can be provided on most other components upon request.

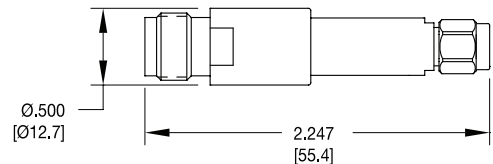
Dimensions



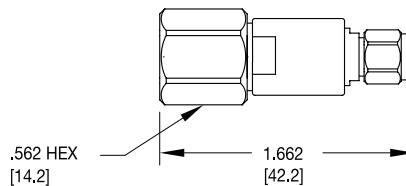
Model 8025A1 (TNC female to 3.5mm female adapter)



Model 8025B1 (TNC male to 3.5mm female adapter)



Model 8025C1 (TNC female to 3.5mm male adapter)



Model 8025D1 (TNC male to 3.5mm male adapter)

3.5mm Connector Description

Maury precision 3.5mm connectors are miniature, instrument grade, air-interface connectors rated for operation from DC to 34 GHz. They comply with IEEE standard 287 for instrument grade general precision connectors (GPC3.5). 3.5mm, 2.92mm and SMA connectors are mateable.

Key Literature: MMC Data Sheet [5E-062](#) for Precision 3.5mm Connector Interface, MMC Data Sheet [5E-053](#) for TNC Connector Interface.