

PRECISION TNC CONNECTORS (MPC/TNC)

INTERFACE DIMENSIONS AND CRITICAL COAXIAL LINE PARAMETERS

Description

The Maury 5E-053A interface is an improved MPC/TNC version that provides mating compatibility with all common military and IEC specification connectors. This includes MIL-STD-348A standard and test connectors (replaced MIL-C-39012 connector), MIL-T-81490, and IEC 169-17 G0 and G2 connectors. It can also be used with MIL-STD-348A TNCA, MIL-C-87104/2, and IEC 169-26 G0 and G1 connectors. For maximum accuracy, we recommend the Maury AFTNC be used for MIL-C-87104/2 and Maury TNCA be used for MIL-STD-348A TNCA.

This connector is designed to be a general purpose precision test connector and is recommended for use with dielectrically loaded TNC interfaces. They exhibit low VSWR as a mated pair and are usable to 18 GHz. Connector bodies are either stainless steel or gold plated beryllium copper. Female contacts are gold plated and beryllium, and male contacts are gold plated brass.

This interface will mate with the older 5E-053 interface, but is not recommended for optimum performance.

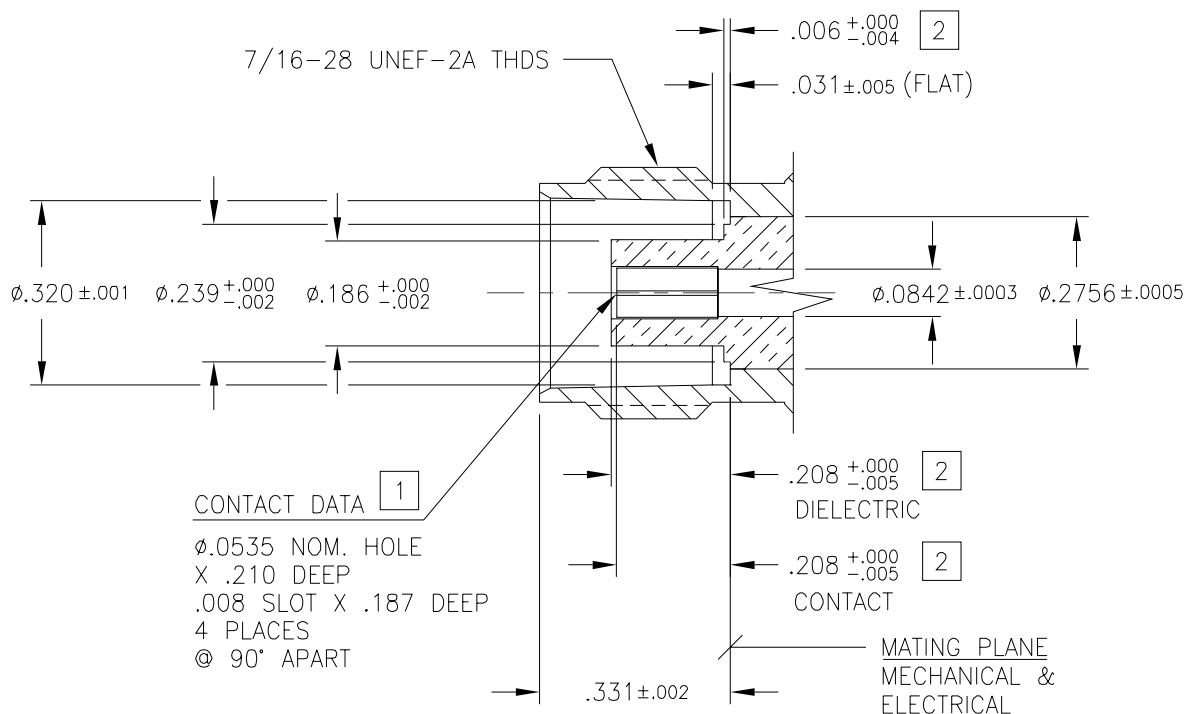


Figure 1: Female Connector

[1] The diameter over the slots shall be $0.0842 \pm .001$ diameter with a $0.0535 \pm .00005$ diameter x .050 pin inserted in the contact.

[2] Dimensions flagged with this note can be inspected with connector gage model A012A.

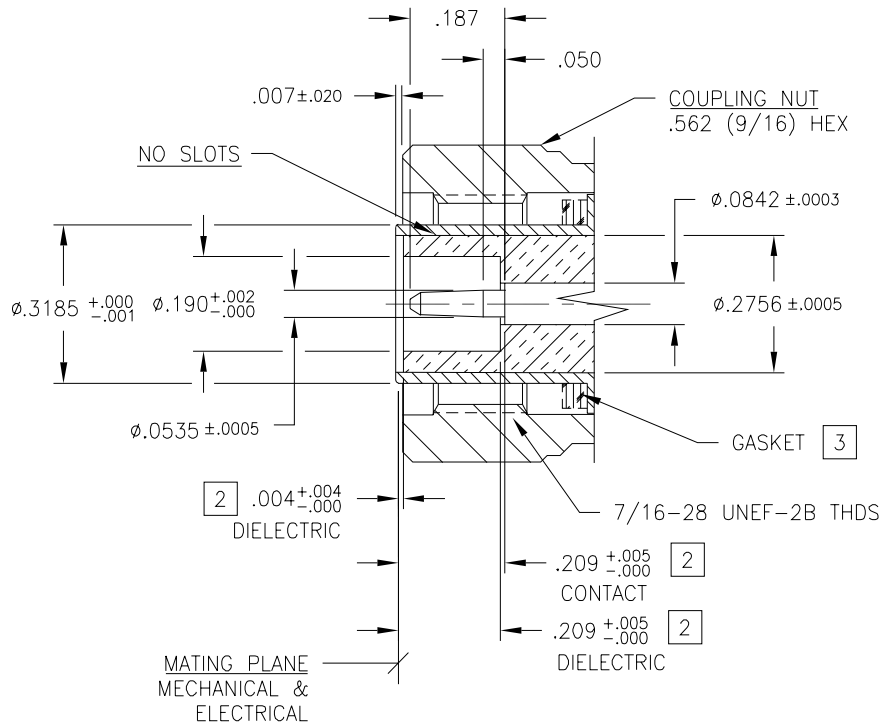


Figure 2: Male Connector

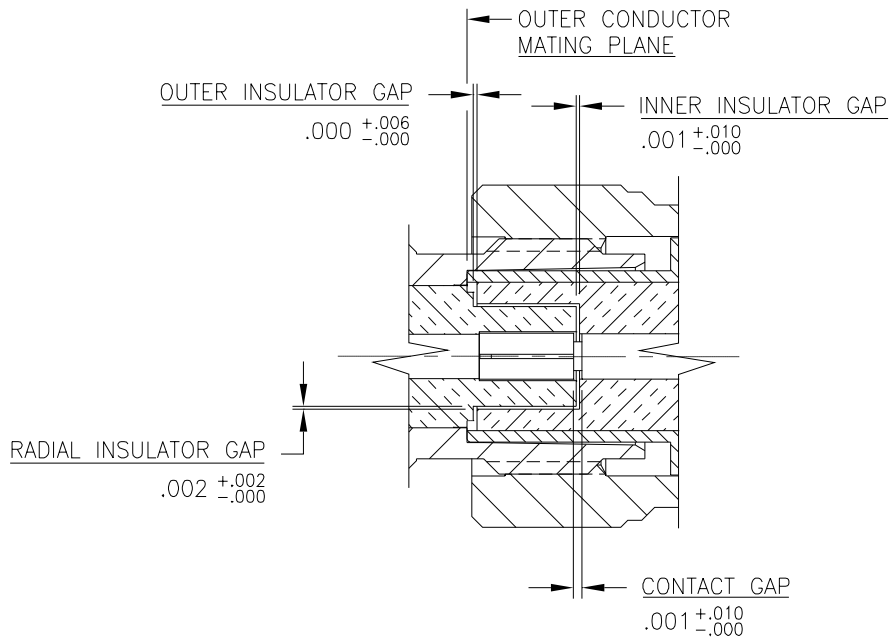


Figure 3: Mated Pair Configuration

3 Gasket can be utilized where weather-proofing is required, not normally provided.