

TNC Connectors Semi-Rigid Cable Connectors

The specifications below are general specifications for TNCA connectors. Specific data is available from the factory upon request. The General, Electrical, Mechanical and Environmental Specifications in the following table are recommended for any procurement documents or drawings.

In the event of any conflict between requirements of the text specifications, General Specification MIL-PRF-39012 and the special details of this table, the latter shall govern. These specifications are subject to change according to the latest revision of Specification MIL-PRF-39012.

Requirement	Specifications
General	
Material	Steel corrosion resistant per ASTM A-582, 300 Series, ASTM A-743, ASTM A-744 Brass Alloy per ASTM B-16 Beryllium copper per ASTM B-196 or B-197 PTFE Fluorocarbon per ASTM D-1457 Silicone Rubber per MIL-R-5847 and ZZ-R-765.
Finish	Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ASTM B-488, Type 2, Code C over nickel underplate. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table.
Design	The design shall be such that the outline dimensions in this catalog are met. In addition, the assembled connector shall meet the interface dimensions. Dimensions are reference only unless stated.
Electrical	
Insulation Resistance	The insulation resistance shall not be less than 5,000 megohms.
Dielectric Withstanding Voltage	Refer to applicable military slash sheet or consult factory.
RF High Potential Withstanding Voltage	Refer to applicable military slash sheet or consult factory.
Contact Resistance	Refer to applicable military slash sheet or consult factory.
Voltage Standing Wave Ratio (VSWR)	Refer to applicable military slash sheet or consult factory.
RF Leakage	Refer to applicable military slash sheet or consult factory.
Insertion Loss	Refer to applicable military slash sheet or consult factory.
Corona Level	Refer to applicable military slash sheet or consult factory.
Mechanical	
Force to Engage and Disengage	The torque required to engage and disengage shall not exceed 2 inch-pounds. The longitudinal force is not applicable.
Coupling Nut Retention Force	100 lbs. minimum. Applicable to male connectors only.
Coupling Proof Torque	15 in.-lbs. minimum. Applicable to male connectors only.
Cable Retention Force	Refer to applicable military slash sheet or consult factory.
Mating Characteristics	See interface dimensions shown. Applicable to females only: oversize pin .0550 +.0001/-.0000 diameter .125 deep; Insertion force 2 lbs. maximum with .054 minimum diameter pin; withdrawal force 2 oz. minimum with .052 maximum diameter pin.
Connector Durability	The connector to be tested and its mating connector shall be subjected to 500 insertion and withdrawal cycles at 12 cycles per minute max. The connector shall show no evidence of mechanical failure and the connector shall meet the mating characteristic requirements.
Recommended Mating Torque	12-15 inch-pounds.
Environmental	
Vibration	Specification MIL-STD-202, Method 204, Test Condition B.
Shock	Specification MIL-STD-202, Method 213, Test Condition I.
Thermal Shock	Refer to applicable military slash sheet or consult factory.
Corrosion (Salt Spray)	Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be five percent
Moisture Resistance	Specification MIL-STD-202, Method 106. No measurement at high humidity. Insulation resistance shall be 200 megohms min. within 5 minutes after removal from humidity.

Complete specifications on every connector in this catalog are available from the factory.

TNC Connectors

9009

Straight male cable

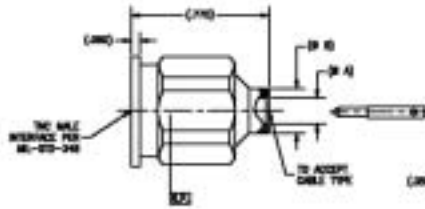


Figure 1

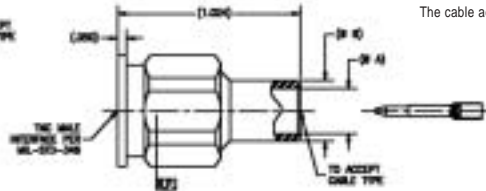


Figure 2

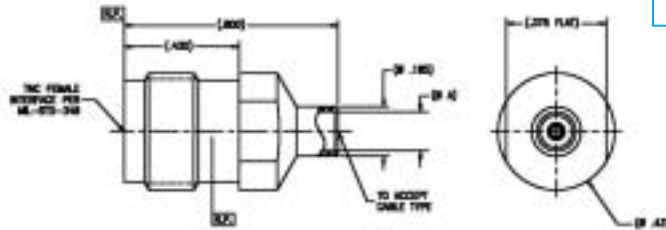
Tensolite Part Number	"A"	Semi-Rigid Cable Type	Fig.
9009-1SF	.143 min.	.141	1
9009-2SF	.088 min.	.085	1
9009-3SF	.143 min.	.141*	1
9009-4SF	.253 min.	.250	2

*Microporous
Standard units have stainless steel finish.
The cable adapter section is gold plated for solderability.

Consult factory for Assembly Instructions

9010

Straight cable female



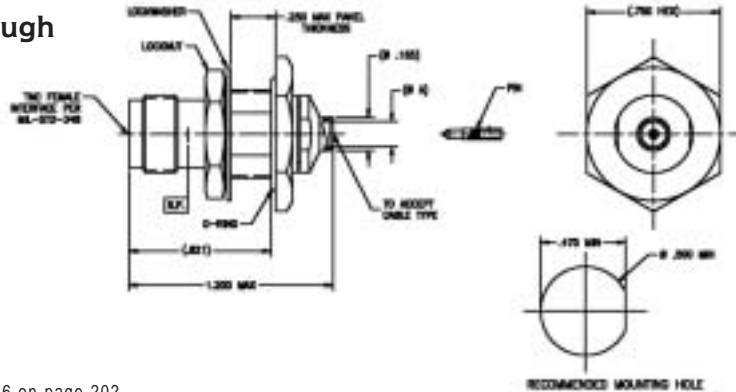
Tensolite Part Number	"A"	Semi-Rigid Cable Type
9010-1	.143 min.	.141
9010-2	.088 min.	.085
9010-3	.143 min.	.141*

*Microporous
Standard units are gold plated.

Consult factory for Assembly Instructions

9011

Bulkhead feedthrough cable female



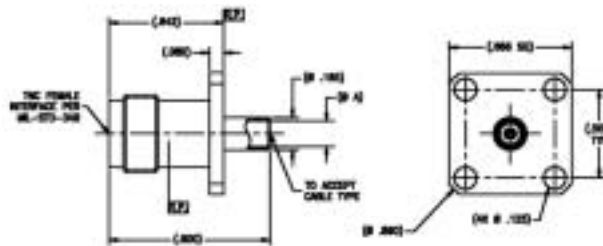
Tensolite Part Number	"A"	Semi-Rigid Cable Type
9011-1SF	.143 min.	.141
9011-2SF	.088 min.	.085
9011-3SF	.143 min.	.141*

*Microporous
Standard units have stainless steel finish.
The cable adapter section is gold plated for solderability.

Refer to Assembly Instruction 136 on page 202

9012

Flange mount cable female



Tensolite Part Number	"A"	Semi-Rigid Cable Type
9012-1	.143 min.	.141
9012-2	.088 min.	.085
9012-3	.143 min.	.141*

*Microporous
Standard units are gold plated.

Refer to Assembly Instruction 159 on page 203

