

## TNC SERIES 12

The DELTA TNC Series 12 connectors are small, lightweight, weatherproof connectors utilizing a screw type coupling. Voltage Rating is 500 volts peak.

All DELTA connectors are available in silver or non-tarnishing Delplate finish.

### GENERAL SPECIFICATIONS, MATERIALS AND FINISHES

#### PERFORMANCE

##### NOMINAL IMPEDANCE:

50 Ohms

##### VOLTAGE RATING:

500 volts RMS Maximum at Sea Level, 125 volts at 70,000 feet.

##### FREQUENCY RANGE

0 to 11 GHz

##### TEMPERATURE RANGE

-65 °F to +165 °C

##### INSULATION RESISTANCE:

Method 302, Test Condition B, MIL-STD-202. 5,000 megohms minimum.

##### DIELECTRIC WITHSTANDING

**VOLTAGE:**  
Method 301, MIL-STD-202. 1,500 volts RMS minimum at Sea Level.

**MATING** - 7/16-28 UNEF - 2 thread

##### CRIMPING (where noted) -

The braid clamping operation for flexible cable is accomplished by use of an inexpensive, standard, commercially-available crimping tool.

##### CAPTIVE CONTACTS

(where noted) - Axial movement of center contacts is eliminated by use of a rear insulator which acts as a contact stop and restricts cable dielectric movement caused by cable flexing and/or temperature changes.

##### VIBRATION:

Method 204, Test Condition B, MIL-STD-202. No discontinuity permitted.

##### SHOCK:

Method 213, Test Condition I, MIL-STD-202. No discontinuity permitted.

##### THERMAL SHOCK:

Method 107, Test Condition B, MIL-STD-202, except test high temperature shall be +85 °C. High temperature shall be +200 °C for connectors using +200 °C cables.

##### CORROSION:

Method 101, Test Condition B, MIL-STD-202.

##### MOISTURE RESISTANCE:

Method 106, MIL-STD-202: No measurements at high humidity. Insulation resistance shall be at least 200 megohms within 5 minutes after removal from humidity.

#### MATERIALS AND FINISHES

##### OUTER CONDUCTOR AND COMPONENTS:

Brass per QQ-B-626  
Plated silver .0002 thick per QQ-S-365 or Delplate.

##### CONTACTS:

**Male** - Brass per QQ-B-626  
Plated gold per MIL-G-45204 Type II, Class 2, (.0001" Min.) over copper per MIL-C-14550

**Female** - Beryllium copper per QQ-C-530  
Plated gold per MIL-G-45204 (.0001" Min.) over copper per MIL-C-14550

##### DIELECTRICS:

Polytetrafluoroethylene (TFE fluorocarbon) per L-P-403.

##### GASKETS:

Silicone Rubber per ZZ-R-765.