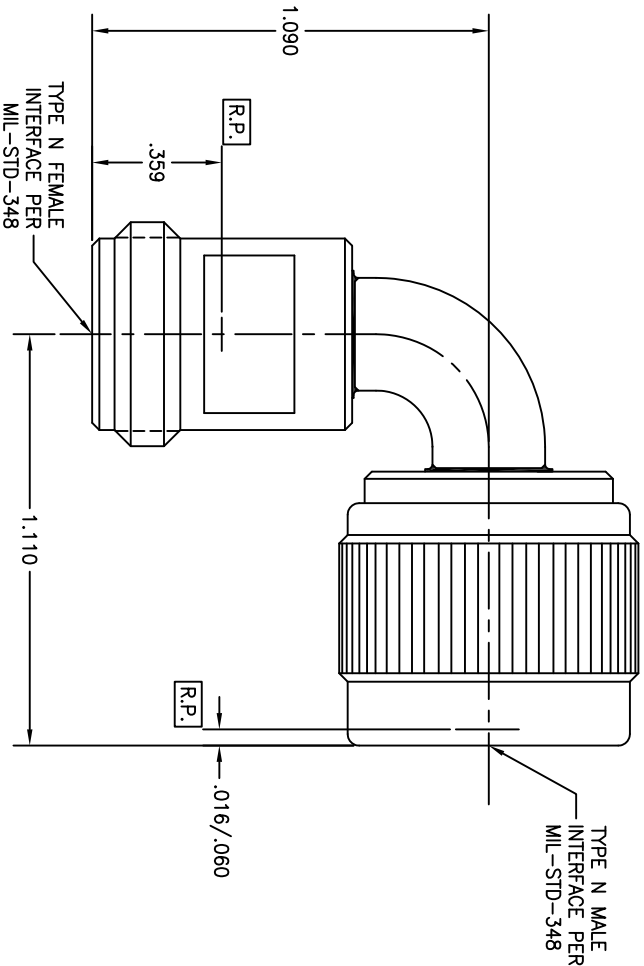


| REVISIONS |                              |  | DATE     | BY  |
|-----------|------------------------------|--|----------|-----|
| REV       | DESCRIPTION                  |  |          |     |
| -         | INITIAL RELEASE              |  | 06.06.13 | DKN |
| B         | ECO 27723 (MATCH W/TOP ASSY) |  | 03.27.14 | DKN |
|           |                              |  |          |     |



**MATERIAL:**

**ELECTRICAL:**

**MECHANICAL:**

**ENVIRONMENTAL:**

**Body & Coupling Nut:**  
303 sst per ASTM A-582.  
**Center Conductor & Retaining Ring:**  
Becu alloy per ASTM B-196.  
**Dielectric:**  
PTFE per ASTM D-1710.  
**Gasket:**  
Silicone Rubber per A-A-59588.

**Impedance:** 50 Ohms nominal.  
**Frequency Range:** DC to 18GHz.  
**VSWR:** 1.25:1 max to 18GHz.  
**Insertion Loss:** .15 dB max to 18GHz.  
**Working Voltage:** 500Vrms @ Sea Level  
125Vrms @ 70,000 ft  
**Dielectric Withstand Voltage:** 2,500 Vrms  
**RF HiPot Withstand Voltage:** 1,500 Vrms  
**Corona Level:** 500 Vrms Min.  
**Insulation Resistance:** 5,000 MegaOhms  
**Contact Resistance:**  
**Center Conductor:** 2.5 mOhms MAX  
**Outer Conductor:** 0.2 mOhms MAX  
**Permeability:** Less than 2.0 MU  
**R.F. Leakage:**  
-90 dB min from 2 to 3 GHz.

**Mating Characteristics:**  
**Interface per:** Mil-Std-348.  
**Center Contact Retention:**  
**Axial Force:** 6 pounds min.  
**Connector Durability:**  
500 cycles min @ 12 cycles/minute max.  
**Coupling Proof Torque:**  
15 pounds min.  
**Coupling Mechanism Retention Force:**  
100 lbs min.

**Temperature Range:** -65°C to +165°C.  
**Moisture Resistance:**  
Mil-Std-202, Method 106, Insulation resistance at least 200 Megohms within 5 minutes after removal from humidity.  
**Corrosion:**  
Mil-Std-202, Method 101, Test Cond. B.  
**Vibration:**  
Mil-Std-202, Method 204, Test Cond. B.  
**Shock:**  
Mil-Std-202, Method 213, Test Cond. I.

**FINISH:**

**APPLICABLE CARLISLE IT DOCUMENTS**

**TOLERANCES AND NOTES EXCEPT AS NOTED**

**WORKING**

**DATE**

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**CHECKED BY**

**TEST ENG**

**DESIGN ENG**

**WFO ENG**

**Body And Coupling Nut:**  
Passivate per ASTM A-967 or SAE-AMS 2700.

**Center Conductor:**  
Gold plate per ASTM B-488, Type II, Code C or D, .000050 min. thick;  
over nickel under plate per AMS-QQ-N-290, Class 1.

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