

1. MATERIALS AND FINISHES:  
BODY, INNER FERRULE, HEX NUT, SLEEVE  
AND LOCK WASHER - BRASS, NICKEL PLATING  
CONTACT - BeCu, GOLD PLATING  
BULLET CONTACT - BRASS, GOLD PLATING  
INSULATOR AND INSULATOR DISC - PTFE, NATURAL  
GASKET AND O-RING - SILICONE RUBBER, RED
2. ELECTRICAL:
  - A. IMPEDANCE: 50 OHM
  - B. FREQUENCY RANGE: DC - 9 GHz
  - C. VSWR: 1.30 MAX. @ DC - 3 GHz  
1.40 MAX. @ 3 - 6 GHz  
1.50 MAX. @ 6 - 9 GHz
  - D. DIELECTRIC WITHSTANDING VOLTAGE: 500 VRMS, MIN.
3. MECHANICAL:
  - A. DURABILITY: 500 CYCLES MIN.
  - B. TEMPERATURE RANGE: -65°C TO +165°C
  - C. SEALING: MEETS IP-67 REQUIREMENTS IN UNMATED CONDITION

4. PACKAGING:
  - A. QUANTITY: SINGLE PACK
  - B. MARKING: PACKAGING TO BE MARKED  
"AMPHENOL RF, 31-7006 AND DATE CODE"
5. CABLE ASSEMBLY INSTRUCTIONS:
  - A. TRIM CABLE AS SHOWN (TWO STAGE TRIM).
  - B. INSERT CABLE THROUGH INNER FERRULE AND PEEL BRAID BACK,  
OVER INNER FERRULE.
  - C. INSTALL SLEEVE AND INSULATOR DISC OVER CABLE, BOTTOMING ON  
INNER FERRULE.
  - D. SOLDER BULLET CONTACT TO CABLE CENTER CONDUCTOR,  
BOTTOMING ON INSULATOR DISC.
  - E. INSERT CABLE INTO CONNECTOR UNTIL IT BOTTOMS.
  - F. CRIMP BODY OVER INNER FERRULE USING 0.105" HEX

5.50  
[0.217]  
BRAID

SCALE 1.500

A schematic diagram of a mechanical assembly. It features a central horizontal shaft. On the left, a thin cylindrical section is shown with a double-headed arrow indicating its length. This is followed by a thicker, solid cylindrical section. To the right of this solid section is a helical spring, represented by a series of overlapping diagonal lines forming a cylinder. The spring is mounted on a larger cylindrical base, which is shown in cross-section with two horizontal lines representing the top and bottom surfaces.

2.25  
[0.089]  
CENTER CONDUCTOR

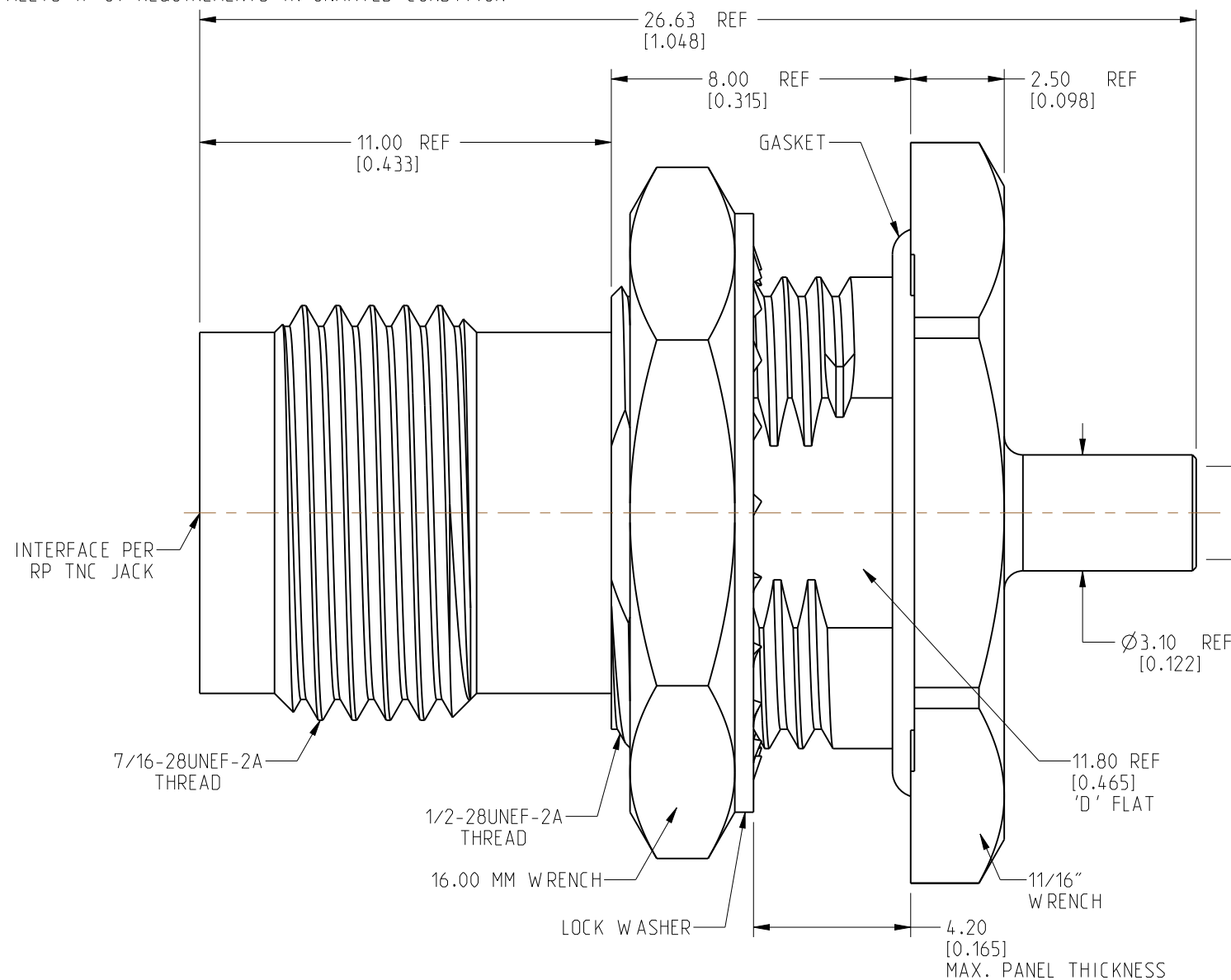


Figure 1 shows the dimensional drawings of the components of the test assembly. The components are labeled as BULLET CONTACT, INSULATOR DISC, SLEEVE, and INNER FERRULE. The dimensions are as follows:

- BULLET CONTACT:** Overall length  $\varnothing 2.49$  [0.098].
- INSULATOR DISC:** Thickness  $\varnothing 0.38$  [0.015].
- SLEEVE:** Thickness  $\varnothing 0.41$  [0.016].
- INNER FERRULE:** Thickness  $\varnothing 0.99$  [0.039].
- Overall Assembly:** Total length  $\varnothing 1.60$  [0.063].

ALL OTHER SHEETS ARE FOR INTERNAL USE ONLY

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UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE METRIC (INCHES) AND TOLERANCES ARE:

<0.5mm = $\pm 0.05$ mm	[<0.020 = $\pm 0.002$ ]
>0.5 - 6mm = $\pm 0.1$ mm	[>0.020 - 0.236 = $\pm 0.004$ ]
>6.00 - 30mm = $\pm 0.2$ mm	[>0.236 - 1.181 = $\pm 0.008$ ]
>30.00 - 120mm = $\pm 0.3$ mm	[>1.181 - 4.725 = $\pm 0.012$ ]

MATERIAL
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SEE NOTES

- ENGR.1  
DINESH A

ENGR.2  
M.ZHANG

DATE  
20-SEP-23

TITLE
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RP TNC STR BHD JACK IP 67  
FOR 1.37 MM CABLE

SHEET NO. 2 OF 2

SCALE: 6.0:1.0

# Amphenol RF

SIZE  B	DRAWING NO.	31-7006
	ITEM NO.	31-7006
	PART NO.	31-7006

REV  
A

THIRD ANGLE PROJ. 

REFERENCE
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EAR#	10559
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