

1. MATERIALS AND FINISHES:
BODY, INNER FERRULE, HEX NUT
SLEEVE & LOCK WASHER - BRASS, NICKEL PLATING
CONTACT - BeCu, GOLD PLATING
BULLET CONTACT - BRASS, GOLD PLATING
INSULATOR & INSULATOR DISC - PTFE, NATURAL
GASKET & 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.

Technical drawing of a TNC jack interface showing dimensions and components. The drawing includes a side view of the jack and a cross-sectional view of the panel assembly.

Dimensions:

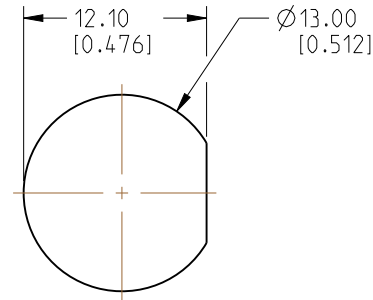
- Overall length: 26.63 REF [1.048]
- Distance from interface to first thread: 11.00 REF [0.433]
- Distance from first thread to gasket: 8.00 REF [0.315]
- Distance from gasket to panel: 2.50 REF [0.098]
- Distance from panel to end of jack: 4.20 [0.165] MAX. PANEL THICKNESS
- Distance from interface to end of jack: 11.80 REF [.465] 'D' FLAT
- Panel diameter: $\varnothing 3.10$ [0.12]

Components and Labels:

- INTERFACE PER MIL-STD-348 SERIES: TNC JACK
- 7/16-28UNEF-2A THREAD
- 1/2-28UNEF-2A THREAD
- 16.00 MM WRENCH
- LOCK WASHER
- GASKET
- 11/16" WRENCH

4. PACKAGING:
 - A. QUANTITY: SINGLE PACK
 - B. MARKING: PACKAGING TO BE MARKED
"AMPHENOL RF, 31-6998 & 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 .105" HEX

RECOMMENDED MOUNTING HOLE DIMENSIONS



5.00
[0.197]
BRAID

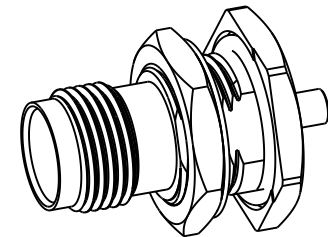


Diagram illustrating a cable assembly. The center conductor is labeled "CENTER CONDUCTOR" with a diameter dimension of 2.25 [0.089]. The braided shield is labeled "BRAID PULLED OVER INNER FERRULE".

Figure 1: Schematic diagram of the assembly of the contact system. The diagram shows four components: BULLET CONTACT, INSULATOR DISC, SLEEVE, and INNER FERRULE. Each component has a diameter specification and a tolerance in brackets. The BULLET CONTACT has a diameter of $\varnothing 2.49$ [0.098] and a reference (REF). The INSULATOR DISC has a diameter of $\varnothing 0.34$ [0.013]. The SLEEVE has a diameter of $\varnothing 0.41$ [0.016]. The INNER FERRULE has a diameter of $\varnothing 0.50$ [0.020]. The assembly is shown with arrows indicating the fit between the components.

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

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

ENGR.1
KAVI S

DATE	27-MAR-23
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SHEET NO. 2 OF 2

SIZE B	DRAWING NO.	31-6998
	ITEM NO.	31-6998
	PART NO.	31-6998

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