

1. MATERIALS AND FINISHES:
BODY, REAR BODY, COUPLING NUT,
CAP & INNER FERRULE- BRASS, NICKEL PLATING
CONTACT - BeCu, GOLD PLATING
INSULATOR - PTFE, NATURAL
RETAINING RING - PHOSPHOR BRONZE, NICKEL PLATING
GASKET - SILICONE RUBBER, RED
2. ELECTRICAL:
A. IMPEDANCE: 50 OHM
B. FREQUENCY RANGE: DC - 7.1 GHz
C. VSWR: 1.30 MAX. DC - 3 GHz
1.40 MAX. 3 - 6 GHz
D. DIELECTRIC WITHSTANDING VOLTAGE: 500 VRMS. MIN.
3. MECHANICAL:
A. DURABILITY: 500 CYCLES MIN.
B. TEMPERATURE RANGE: -65°C TO +165°C
4. PACKAGING:
A. QUANTITY: SINGLE PACK
B. MARKING: PACKAGING TO BE MARKED
"AMPHENOL RF, 31-6984 AND DATE CODE"
C. CAP AND INNER FERRULE ARE PACKAGED LOOSE.
5. CABLE ASSEMBLY INSTRUCTIONS:
A. TRIM CABLE AS SHOWN (TWO STAGE TRIM).
B. INSERT CABLE THROUGH INNER FERRULE AND PEEL Braid
OVER INNER FERRULE
C. INSERT CABLE INTO THE CONNECTOR.
D. SOLDER CONTACT TO CABLE CENTER CONDUCTOR.
E. CRIMP BODY OVER INNER FERRULE USING 0.105" HEX.
F. PRESS CAP FLUSH.

1.90
[0.075]
TO BRAID

7.25
[0.285]

This diagram shows a cross-section of a cable joint. A central conductor is surrounded by a braided shield. The braided shield is connected to a larger braided section on the right. Dimensions are provided for the central conductor and the braided shield section.

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Technical drawing of a mechanical assembly, showing a side view and a cross-section view.

Dimensions:

- Overall length: 25.05 REF [0.986]
- Distance from left face to center of the large cylindrical component: 20.05 REF [0.789]
- Distance from left face to the start of the large cylindrical component: 14.85 HEX [0.585]
- Inner diameter of the large cylindrical component: $\varnothing 3.10$ REF [0.122]

Components:

- A small cylindrical component on the left, featuring a cross-hatched pattern.
- A large cylindrical component with a hexagonal base and a hexagonal top.
- A large, curved, dome-shaped component on the right, supported by a vertical post.



REVISIONS				
REV	DESCRIPTION	DATE	ECN	BY
A	RELEASE TO MFG.	24-SEP-24	17177	SH

CUSTOMER OUTLINE DRAWING

ALL OTHER SHEETS ARE FOR INTERNAL USE ONLY

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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]

SEE NOTES

ENGR.1
R KARTHIK

ENGR.2
JACK LIANG

DATE	22-FEB-21
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RP TNC RA PLUG
FOR 1.37 MM CABLE

SHEET NO. 2 OF 2

SCALE: 6.5:1.0

B

DRAWING NO.	31-6984
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ITEM NO.	31-6984
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PART NO. 31-6984

REV

