

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

A technical drawing of a 1/2 inch NPT female plug. The drawing shows the plug from a perspective view. It has a hexagonal body with a threaded section on the left and a smooth section on the right. A 1/2 inch NPT male plug is inserted into the threaded section of the female plug. The male plug has a hexagonal head and a threaded section. The drawing is a line drawing with no shading.

INTERFACE PER
RP TNC PLUG

1.90
[0.075]
TO BRAID

7.25
[0.285]

This diagram shows a cross-section of a cable. It features a central core with a diameter of 1.90 [0.075] inches, labeled "TO BRAID". The core is surrounded by a braided shield. The total diameter of the cable is 7.25 [0.285] inches. The braided shield is shown with a cross-hatched pattern.

3.00
[0.118]

CENTER CONDUCTOR

BRAID PULLED BACK
OVER INNER FERRULE

INNER FERRULE

6

Ø 1.22
[0.048]

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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]
>6.0 - 30mm = ±0.2mm	[0.236 - 1.181 = ±0.008]
>30.0 - 120mm = ±0.3mm	[1.181 - 4.725 = ±0.012]

ENGR.1
R KARTHIK

DATE
22-FEB-21

SHEET NO. 2 OF 2

SIZE B	DRAWING NO.	31-6982
	ITEM NO.	31-6982
	PART NO.	31-6982

REV
A

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