

ENG FILE COPY

NOTES:

1. MATING:

Interface dimensions per Mil-C-39012/TNC Series and Solitron/Microwave MD-108.

2. MATERIALS:

All Metal parts except Contacts and Lock Ring:—Brass per QQ-B-626; Alloy 360, ½ H.

Outer Contact and Center Contact:—Beryllium Copper per QQ-C-530, Cond. H.

Dielectric:—Teflon per Mil-P-19468A.

Gaskets:—Silicone Rubber per ZZ-R-765, Class IIB, Grade 50-60.

Lock Ring:—Phosphor Bronze per QQ-B-750, Comp. A.

3. FINISH:

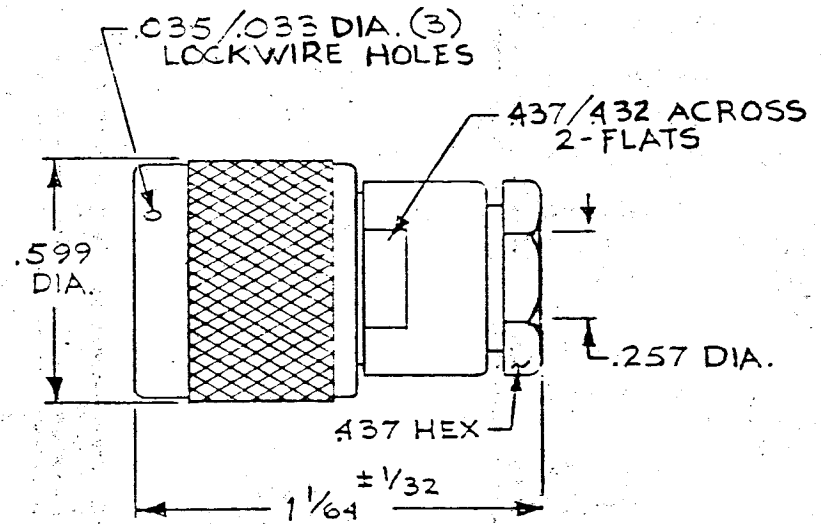
All Metal parts except Center Contact and

Lock Ring:—Silver (with Iridite) per QQ-S-365, Type II, Grade A; over Copper Strike, per Mil-C-14550.

Center Contact:—Gold per Mil-G-45204, Type II, Grade C, Class 2; over Copper per Mil-C-14550, Class 4.

Lock Ring:—None.

4. Accommodates RG-59, 62, 71A/U Cables.



5. Cable/Connector Assembly Instructions per Solitron/Microwave Drawing 300-80-128.

SYM	DESCRIPTION	DATE	APPR	UNLESS OTHERWISE SPECIFIED 1 REMOVE ALL BURRS 2 BREAK ALL CORNERS & EDGES .005 R MAX 3 CHAMFER 1ST & LAST THREADS 45° 4 SURFACE ROUGHNESS 63 MIL-STD 10 5 DIAMETERS ON COMMON CENTERS TO BE CONCENTRIC WITHIN T.I.R. 6 ALL DIMENSIONS ARE AFTER PLATING	SOLITRON/MICROWAVE PORT SALERNO, FLORIDA		ENGINEERING DATA DRAWING
B	REV. F-7311	8-8-79	[Signature]	DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS FRACTIONAL ANGULAR .X ± .030 XX ± .015 ± 1/64 X' ± 1'0" XXX ± .005 X'X' ± 15'	MATERIAL	TITLE	
					FINISH	TNC, PLUG, FOR RG 59, 62, 71 A/U CABLES	
				DRAWN STEVENSON DATE 8-8-79	SCALE	CODE IDENT NO.	DRAWING NO.
				CHECKED DATE	—	95077	4001-0001
				APPROVED [Signature] DATE 8/8/79		A	SHEET 1 OF 2

"DESIGN CRITERIA"

4001-0001

REQUIREMENT	RATING	REQUIREMENT	RATING
Nominal Impedance (ohms)	50	Vibration	MIL-STD-202 method 204 Cond. D (20G's)
Frequency Range (ghz)	DC-15.0		
Voltage Rating (max. vrms)	500	Shock	MIL-STD-202 method 213 Cond. I (100G's)
Temperature Rating (degrees centigrade)	-65 To +165		
VSWR (max.) *	N/A	Temperature Cycling	MIL-STD-202 method 102 - Cond. C (-65 ^o c To +200 ^o c)
Insertion Loss (dB max.) *	N/A		
RF Leakage (min. dB down)	60 dB-FGHz	Corrosion	MIL-STD-202 method 101 Cond. B (48 hrs.)
RF High Potential (max. vrms)	1000 AT 5MHz		
Dielectric Withstanding Voltage (max. vrms)	1500	Moisture Resistance	MIL-STD-202 method 106 less step 7b
Insulation Resistance (min. megohms)	5000		
Contact Resistance		Barometric Pressure (Altitude)	MIL-STD-202 method 105 Cond. C (70,000 ft.) (375 vrms)
Center Contact (max. milliohms)	1.5		
Outer Contact (max. milliohms)	0.2		
Center Contact Axial Forces			
Insertion (max. ounces)	24.0		
Withdrawal (min. ounces)	2.0		
Connector Durability (min. cycles)	500		
Connector Engagement & Disengagement (max. inch lbs.)	2.0		

REMARKS: 1.) RECOMMENDED MATING TORQUE: 30-35 INCH POUNDS.
 *2.) NOT APPLICABLE. CABLE APPLICATION IS NOT 50 OHMS.