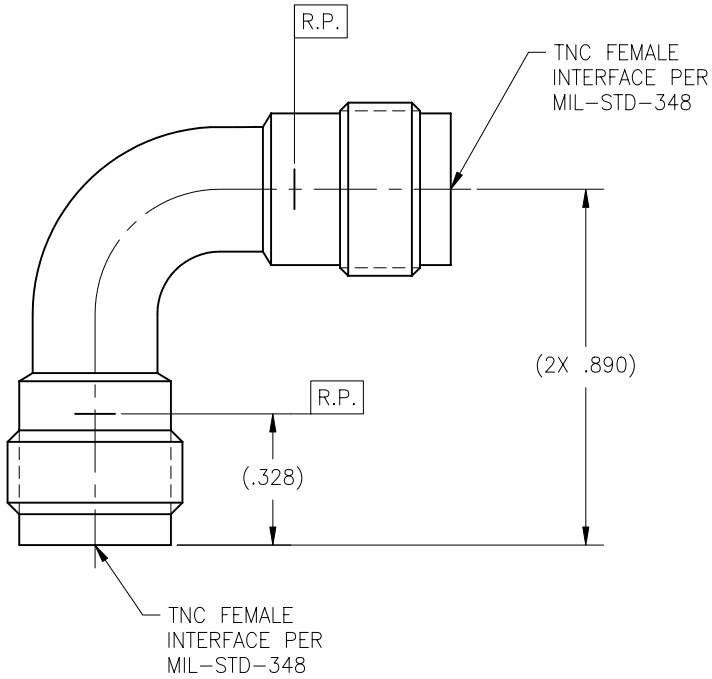
P/N
CCSF

REVISIONS				
ZONE	REV.	DESCRIPTION(S)	DATE	BY
–	A	ECO 19558	09.11.06	DKN



DRAWING NO.	REV.
9051	A

MATERIAL:

R/A Body:
303 sst per ASTM A–743.
Female Body & Press Ring:
303 sst per ASTM A–582.
Center Conductor:
BeCu alloy per ASTM B–196.
Dielectric:
PTFE per ASTM D–1710.
Epoxy:
Loctite.

ELECTRICAL:

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18.0 GHz.
VSWR: 1.08 + .009 f(GHz).
Insertion Loss: .25 dB max to 18GHz.
Working Voltage: 500 Vrms @ Sea Level
125 Vrms @ 70,000 ft
Dielectric Withstand Voltage: 1500 Vrms
RF HiPot Withstand Voltage: 1000 Vrms
Corona Level: 375 Vrms Min.
Insulation Resistance: 5000 MegaOhms
Contact Resistance:
Center Conductor: 2.5 mOhms MAX
Outer Conductor: 2.0 mOhms MAX
Permeability: Less than 2.0 MU
RF Leakage: –90 dB min from 2–3 GHz.

MECHANICAL:

Mating Characteristics:
Interface per Mil–Std–348.
Center Contact Retention:
Axial Force: 6 pounds min.
Connector Durability:
500 cycles min @ 12 cycles/minute max.

ENVIRONMENTAL:

Temperature Range: –65°C to +165°C.
Moisture Resistance:
Mil–Std–202, Method 106, Insulation resistance at least 200 MegOhms within 5 minutes after removal from humidity.
Corrosion:
Mil–Std–202, Method 101, Test Cond. B.
Vibration:
Mil–Std–202, Method 204, Test Cond. B.

Mil–Std–202, Method 213, Test cond. I.
Shock:

FINISH:

Center Conductor:
Gold Plate per ASTM B–488, over nickel plate per AMS–QQ–N–290.
Bodies & Press Ring:
Passivated per ASTM A–967.

APPLICABLE TENSOLITE DOCUMENTS		
WORK STD	PROD INST	ASSY INST
NA	NA	NA

NOTICE

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TOLERANCES AND NOTES
EXCEPT AS NOTED

DIMENSIONS ARE IN INCHES.
LINEAR .XX ±.015 .XXX ±.005 ANGULAR ± 1/2°
FRACTION ± 1/32

1. MACHINE FINISH: 63 √ RMS
2. BREAK ALL SHARP EDGES .003 MAX.
3. MACHINED FILLETS .005 MAX.
4. MACHINED SURFACES SQUARE TO RESPECTIVE AXIS WITHIN .005 INCHES PER INCH.
5. MACHINED DIAMETERS CONCENTRIC WITHIN .002 T.I.R.
6. DIMENSIONS TO BE MET BEFORE PLATING.
7. CHAMFER ALL THREADS 45°.
8. THREADS PER H–28
9. REMOVE FRAYED EDGES ON TEFLON.
10. REMOVE ALL BURRS.

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MATERIAL	SIZE	SPECIFICATION	PROCUREMENT

NEXT ASSY

APPROVAL INITIALS		DATE
DRAWN BY	AGS	08.29.02
CHECKED		
QUALITY		
ENGINEERING	ATV	09.13.06

Tensolite
HIGH PERFORMANCE CABLES & INTERCONNECT SYSTEMS
Long Beach, California 90815

TITLE
TNC FEMALE TO TNC FEMALE
RADIUS R/A ADAPTER

SCALE	SUB-DIRECTORY\FILENAME	SHEET 1 OF 1
4:1	OL_\	

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	9051	A