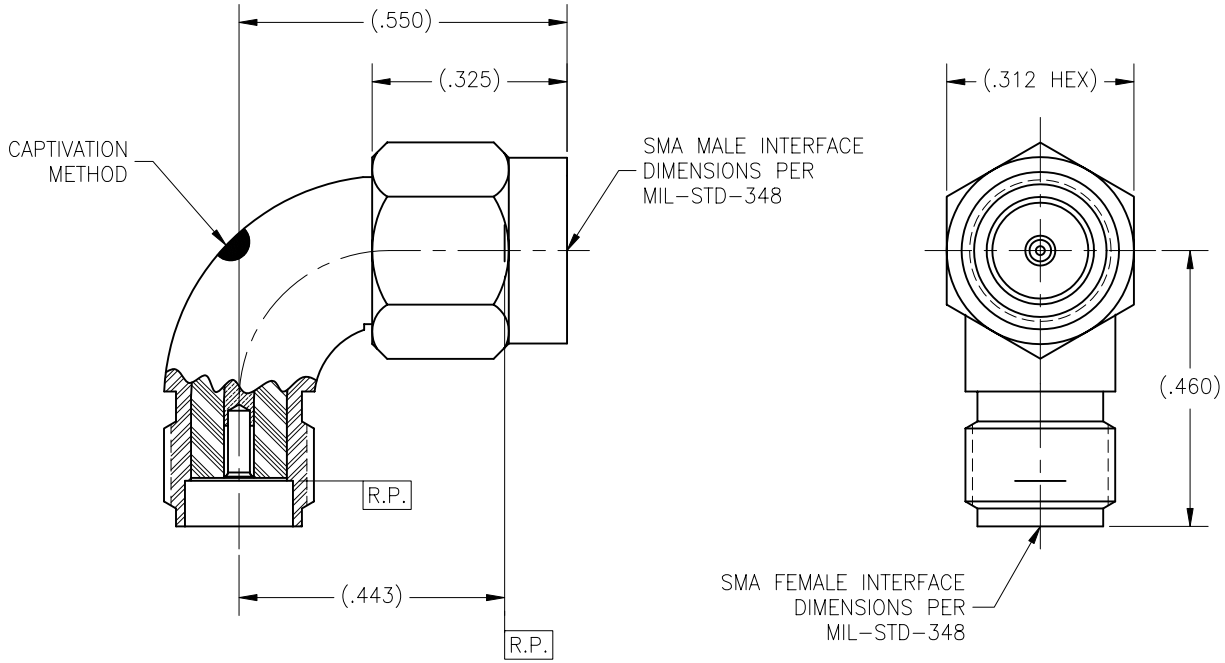
P/N	CAPTIVATION METHOD
BASIC	NONE
CC	EPOXY ONLY
SF	NONE
CCSF	EPOXY ONLY
CCCE	EPOXY WITH CONDUCTIVE
CCCESF	EPOXY WITH CONDUCTIVE

REVISIONS

ZONE	REV.	DESCRIPTION(S)	DATE	BY
–	A	ECO 19541	09.01.06	DKN



DRAWING NO.	REV.
5490	A

MATERIAL(S):

Body:
304 sst per AMS 5567.
Coupling Nut:
303 sst per ASTM A–582.
Center Conductor:
BeCu alloy per ASTM B–196.
Retaining Ring:
BeCu alloy per ASTM B–196
Dielectric:
PTFE per ASTM D–1710.
Gasket:
Silicone rubber per A–A–59588.
Epoxy:
Sigma vary flex type HV.
Conductive Epoxy:
Eccobond 56C.

ELECTRICAL(S):

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18.0 GHz.
VSWR: 1.06 + .005 fGHz.
Insertion Loss: .20 dB max @ 18GHz.
Working Voltage: 335 Vrms max @ sea level.
Dielectric Withstanding Voltage: 1500 Vrms min.
R.F. HiPot Voltage: 1000 Vrms min @ 5MHz.
Corona Level: 375 Vrms @ 70,000 ft.
Insulation Resistance: 5000 MegOhms min.
R.F. Leakage: –90 dB min 2–3 GHz
Contact Resistance:
Initial:
Center Contact: 3.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.
After Environment:
Center Contact: 4.0 Milliohm max.
Outer Contact: NA.

MECHANICAL(S):

Mating Characteristics:
Interface per Mil–Std–348.
Force To Engage & Disengage:
Torque: 2 inch–pounds max.
Longitudinal Force: NA.
Connector Durability:
500 cycles min @ 12 cycles/minute max.
Permeability: Less than 2.0 mu.
Coupling Proof Torque: 15 inch–pounds min.
Coupling Mech. Retention: 60 pounds min.

ENVIRONMENTAL(S):

Temperature Range: –65°C to +165°C.
Thermal Shock:
Mil–Std–202, Method 107, Test Cond. 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. D.
Shock:
Mil–Std–202, Method 213, Test Cond. I.

FINISH(ES):

Body And Coupling Nut:
(for SF, CCSF, CCCESF): Passivate per ASTM A–967.
(for BASIC, CC, CCCE): Gold plate per ASTM B–488, over nickel under plate per AMS–QQ–N–290.
Center Conductor:
Gold plate per ASTM B–488, over nickel under plate per AMS–QQ–N–290.

APPLICABLE TENSOLITE DOCUMENTS

WORK STD	PROD INST	ASSY INST
NA	NA	NA

NOTICE

THIS DRAWING EMBODIES A CONFIDENTIAL PROPRIETARY DESIGN ORIGINATED BY TENSOLITE COMPANY AND ALL DESIGN, MANUFACTURING REPRODUCTION, USE AND SALE RIGHTS REGARDING THE SAME ARE EXPRESSLY RESERVED. IT IS SUBMITTED UNDER A CONFIDENTIAL RELATIONSHIP FOR A SPECIFIED PURPOSE AND THE RECIPIENT AGREES BY ACCEPTING THIS DRAWING NOT TO SUPPLY OR DISCLOSE ANY INFORMATION REGARDING IT TO ANY UNAUTHORIZED PERSON TO INCORPORATE IN OTHER PROJECTS ANY SPECIAL FEATURES PECULIAR TO THIS DESIGN. ALL PATENT RIGHTS HERETO ARE EXPRESSLY RESERVED BY TENSOLITE COMPANY, LONG BEACH, CALIFORNIA 90815.

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	02.12.02
CHECKED		
QUALITY		
ENGINEERING	ATV	09.01.06

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

TITLE
SMA MALE TO SMA FEMALE
RADIUS RIGHT ANGLE, ADAPTER

SCALE	SUB-DIRECTORY\FILENAME	SHEET 1 OF 1
5:1	OL_\	

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	5490	A