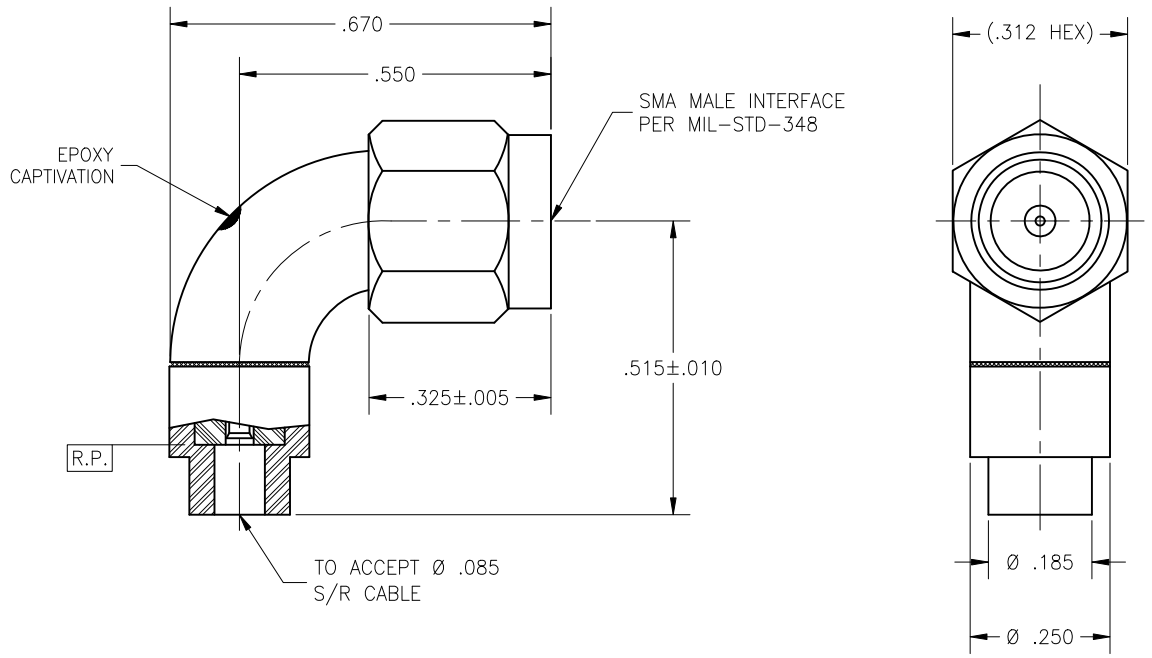
P/N
BASIC
CC
CCSF
SF

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	BY
–	C	ECO 16381	12/03/03	LN
–	D	ECO 20552	07.08.08	DKN



MATERIAL(S):

Body Sub-Assy:
303 sst per ASTM A-582 and
304 sst per SAE-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: (for CC & CCSF)
Sigma VF type HV.

ELECTRICAL(S):

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18.0 GHz.
VSWR: 1.07 + .005 x f(GHz) max.
Insertion Loss: .03 $\sqrt{f(GHz)}$ dB max
Working Voltage: 335 Vrms max @ sea level.
Dielectric Withstanding Voltage: 1000 Vrms min.
R.F. HiPot Voltage: 670 Vrms min @ 5MHz.
Corona Level: 250 Vrms @ 70,000 ft.
Insulation Resistance: 5000 MegOhms min.
R.F. Leakage: -(60 - fGHz) dB min for CC & CCSF
-(90 - fGHz) dB min for BASIC & SF
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.
Center Contact Captivation: (for CC & CCSF)
Axial Force: 6 pounds min.
Torque: 4 inch-ounces min.
Coupling Proof Torque: 15 inch-pounds min.
Coupling Mech. Retention: 60 pounds min.

ENVIRONMENTAL(S):

Temperature Range: -65°C to +125°C.
Thermal Shock:
Mil-Std-202, Method 107, Test Cond. A.
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.
Shock:
Mil-Std-202, Method 213, Test Cond. I.

FINISH(ES):

Coupling Nut:
(For SF & CCSF): Passivate per ASTM A-967.
(For BASIC & CC): Gold plate per ASTM B-488, over nickel under plate per AMS-QQ-N-290.
Body & 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

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.

–	–	–	–
MATERIAL	SIZE	SPECIFICATION	PROCUREMENT

APPROVAL INITIALS		DATE
DRAWN BY	HL	01.30.79
CHECKED BY	PM	07.09.08
TEST ENGG		
QUALITY		
DESIGN ENGG	PMAO	07.09.08
MFG ENGG		

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

TITLE: SMA MALE RADIUS R/A TO Ø .085 SEMI-RIGID CABLE

SCALE	SUB-DIRECTORY\FILENAME	SHEET
6:1	OL_\	1 OF 1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	5236-2	D

ENG-DWG REV. B