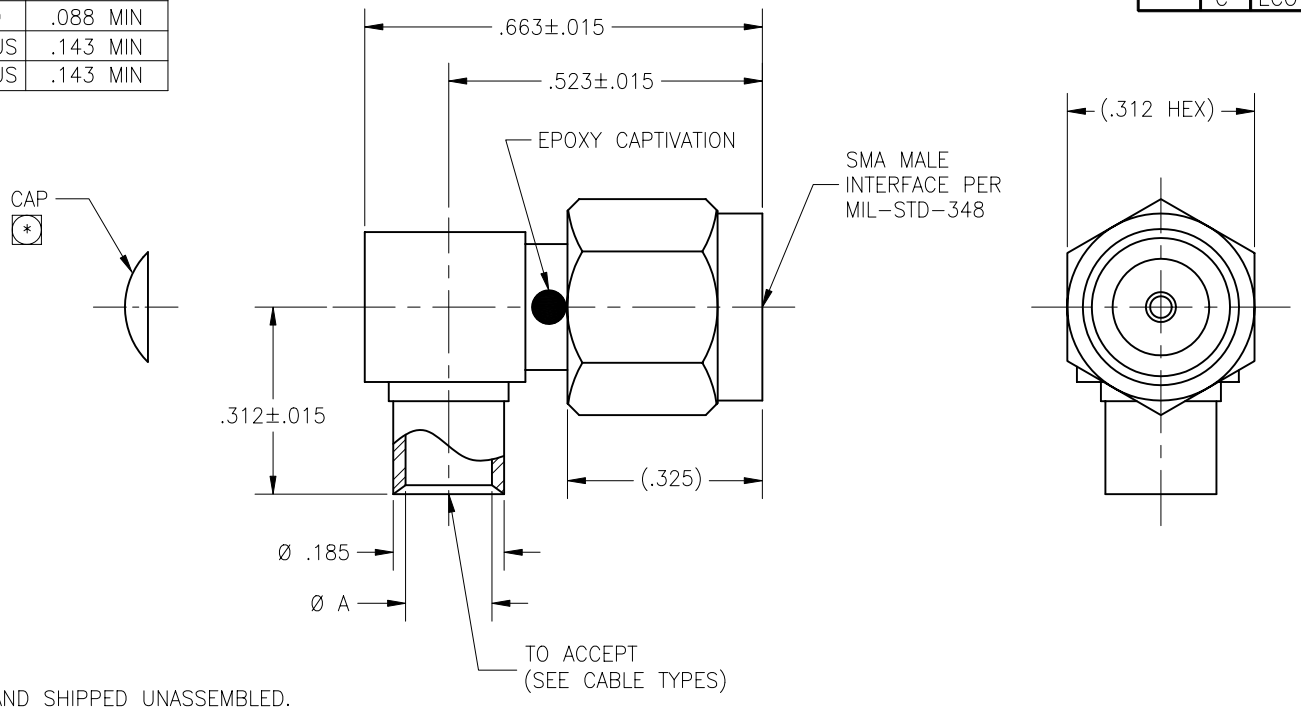
P/N	CABLE TYPE(S)	Ø A
−1CC	.141 SEMI−RIGID	.143 MIN
−1CCSF	.141 SEMI−RIGID	.143 MIN
−2CC	.088 SEMI−RIGID	.088 MIN
−2CCSF	.088 SEMI−RIGID	.088 MIN
−3CC	.141 MICROPOROUS	.143 MIN
−3CCSF	.141 MICROPOROUS	.143 MIN

REVISIONS

ZONE	REV.	DESCRIPTION(S)	DATE	BY
−	A	ECO 15210	01.14.03	AGS
−	B	ECO 19602	09.22.06	DKN
−	C	ECO 19747	11.10.06	SLM



(*) CAP TO BE PACKAGED AND SHIPPED UNASSEMBLED.

DRAWING NO. 5850 REV. C

MATERIAL(S):

Body and Coupling Nut:
303 sst per ASTM A−582.
Center Conductor and Cap:
Brass alloy per ASTM B−16.
Retaining Ring:
BeCu alloy per ASTM B−196
Dielectric:
PTFE per ASTM D−1710.
Gasket:
Silicone Rubber per A−A−59588.
Epoxy:
Sigma VF Type HV

ELECTRICAL(S):

Impedance: 50 Ohms nominal.
Frequency Range: DC to 12.0 GHz.
VSWR: 1.018 + .018 x f (GHz).
Working Voltage: 600 Vrms max @ sea level.
150 Vrms max @ 70,000 ft.
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 dB min from 2−3GHz.
Contact Resistance:
Initial:
Center Contact: 2.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.
After Environment:
Center Contact: 3.0 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.
Center Contact Retention:
Axial Force: 6 pounds min.
Connector Durability:
500 cycles min @ 12 cycles/minute max.
Permeability: Less than 2.0 mu.
Center Contact Captivation:
Axial Force: 6 pounds min.
Radial 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 +165°C.
Thermal Shock:
Mil−Std−202, Method 107, Test Cond. B.
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):

Coupling Nut:
for CCSF's: Passivate per ASTM A−967.
for CC's: Gold plate per ASTM B−488, over nickel under plate per AMS−QQ−N−290.
Body, Cap & 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.

MATERIAL	SIZE	SPECIFICATION	PROCUREMENT
−	−	−	−

NEXT ASSY

APPROVAL INITIALS		DATE
DRAWN BY	ATV	06.29.00
CHECKED	PM	11.10.06
QUALITY		
ENGINEERING	PM	11.10.06

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

TITLE SMA MALE MITER RIGHT ANGLE TO SEMI−RIGID CABLES

SCALE 6/1 | SUB−DIRECTORY\FILENAME OL_ | SHEET 1 OF 1

SIZE C | CAGE CODE 30990 | DRAWING NO. 5850 | REV. C