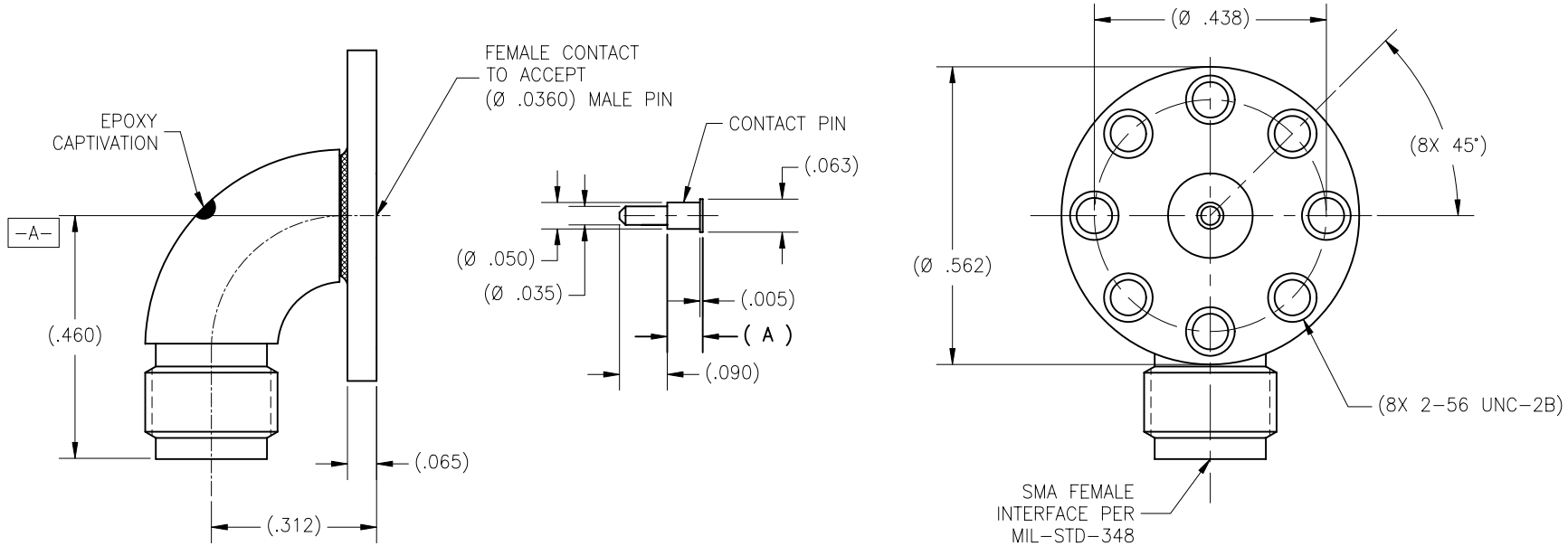
P/N	(A)
−1CC	.037
−1CCSF	.037
−2CC	.067
−2CCSF	.067
−3CC	.099
−3CCSF	.099
−4CC	.130
−4CCSF	.130

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	BY
–	A	ECO 20397	07.24.07	DKN



DRAWING NO.	REV.
5411	A

NOTE(S):

CONTACT PIN TO BE PACKAGED AND SHIPPED UNASSEMBLED.

MATERIAL(S):

Body:
304SST per AMS−5567
or MIL−T−8504
Flange:
303 sst per ASTM A−582.
Center Conductor:
BeCu alloy per ASTM B−196.
Contact Pin:
Brass alloy per ASTM B−16.
Dielectric:
PTFE per ASTM D−1710.
Epoxy:
Sigma VF type HV

ELECTRICAL(S):

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18GHz.
VSWR: 1.06 + .005 x fGHz.
Insertion Loss: .10 dB max @ 6GHz.
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: −(60 − fGHz) dB
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.
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.
Torque: 4 inch−ounces 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.

FINISH(ES):

Body & Flange: (for CCSF's)
Passivate per ASTM A−967.
Body & Flange: (for CC's)
Gold plate per ASTM B−488, over nickel under plate per AMS−QQ−N−290.
Center Conductor & Contact Pin:
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

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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.

MATERIAL	SIZE	SPECIFICATION	PROCUREMENT
–	–	–	–

APPROVAL INITIALS		DATE
DRAWN BY	R.C.	03.18.02
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	ATV	07.26.07
MFG ENGG		

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

TITLE SMA FEMALE RADIUS R/A 8 HOLE ROUND FLANGE MOUNT TO STRIPLINE TERMINATION

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

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	5411	A