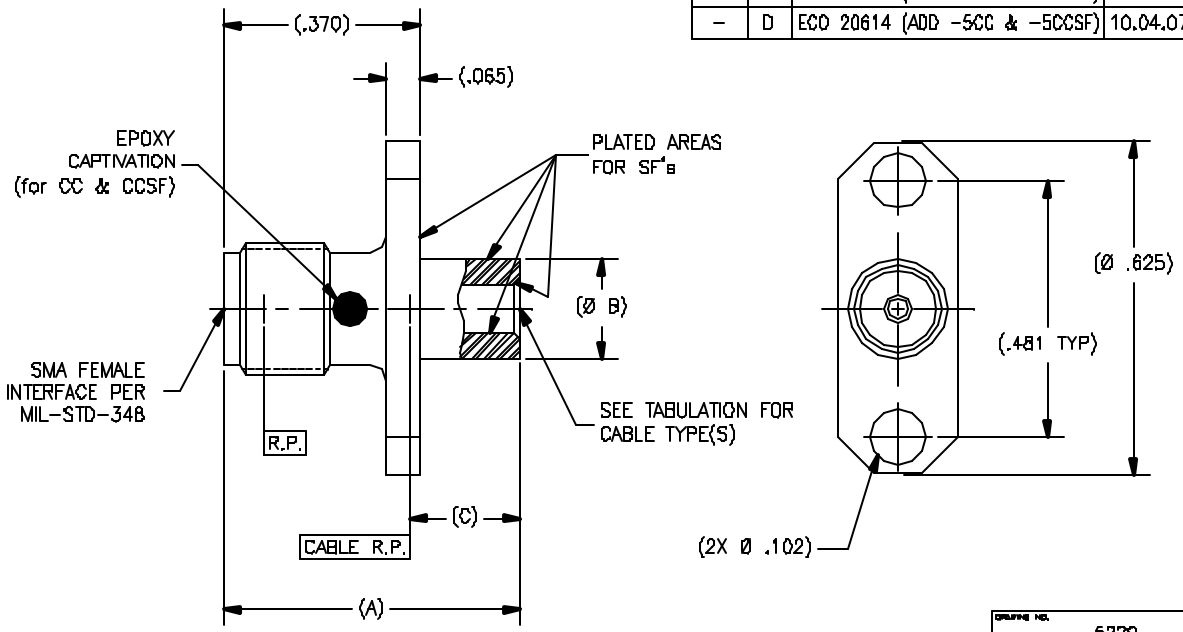
P/N	(A)	(Ø B)	(C)	CABLE TYPE(S)
−1	.555	.185	.205	Ø .141 SEMI−RIGID
−1SF	.555	.185	.205	Ø .141 SEMI−RIGID
−2	.500	.125	.150	Ø .085 SEMI−RIGID
−2SF	.500	.125	.150	Ø .085 SEMI−RIGID
−3	.555	.185	.205	Ø .141 LOW LOSS
−3SF	.555	.185	.205	Ø .141 LOW LOSS
−2CC	.500	.125	.150	Ø .085 SEMI−RIGID
−2CCSF	.500	.125	.150	Ø .085 SEMI−RIGID
−5CC	.440	.125	.064	Ø .047 SEMI−RIGID
−5CCSF	.440	.125	.064	Ø .047 SEMI−RIGID

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	BY
−	B	ECO 18039	03.25.05	RC
−	C	ECO 20479 (ADD −2CC & −2CCSF)	08.20.07	DKN
−	D	ECO 20614 (ADD −5CC & −5CCSF)	10.04.07	DKN



DRAWING NO. 5229 REV. D

MATERIAL:

Body:
303 sst per ASTM A−582.
Center Conductor:
BeCu alloy per ASTM B−196.
Insulator:
PTFE per ASTM D−1710.
Epoxy: (for CC & CCSF)
Sigma VF type HV (Not supplied)

ELECTRICAL:

Impedance: 50 Ohms nominal.
Freqancy Range: DC to 18 GHz.
VSWR: 1.05 + .005 x f(GHz).
Insertion Loss: .03 √f (GHz).
Working Voltage: 500 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 dB − fGHz) − with epoxy
−(90 dB − fGHz) − no epoxy
Contact Resistance:
Initial:
Center Contact: 3.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.
After Environment:
Center Contact: 4.0 Milliohm max.

MECHANICAL:

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.

** applicable to captivated contacts (for CC & CCSF)

ENVIRONMENTAL:

Temperature Range: −65° to +165°.
Thermal Shock:
Mil−Std−202, Method 107, Test Cond. B.
Moisture Resistance:
Mil−Std−202, Method 106, No measurements at high humidity. Insulation resistance shall be 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:

Body:
(for SF's): Passivate per ASTM A−967, except areas noted.
(for Basic & CC): 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

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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: 125 RMS
2. BREAK ALL SHARP EDGES .005 MAX.
3. MACHINED FILLETS .005 MAX.
4. MACHINED SURFACE SHALL BE TO REPRESENTATIVE AND WITHIN .005 INCHES PER INCH.
5. MACHINED DIAMETERS CONCENTRIC WITHIN .005 T.I.R.
6. DIMENSIONS TO BE MET BEFORE PLATING.
7. CHAMFER ALL THREADS 45°.
8. THREADS PER H−28
9. REMOVE PRAYED EDGES OR TEFLON.
10. REMOVE ALL BURRS.

MATERIAL		−	−	−
		SIZE	SPECIFICATION	FINISH/COMMENT
APPROVAL INITIALS	DATE			
DRAWN BY	NG	03.13.02		
CHECKED BY				
TEST ENGR				
QUALITY				
DESIGN ENGR	ATV	10.09.07		
MFG ENGR				

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

TITLE: SMA FEMALE 2 HOLE FLANGE MOUNT TO SEMI−RIGID CABLE

SCALE: 8:1 | SIZE: C | CODE IDENT: 30990 | DRAWING NO. 5229 | REV. D | SHEET 1 OF 1

ENG−DWG REV. B