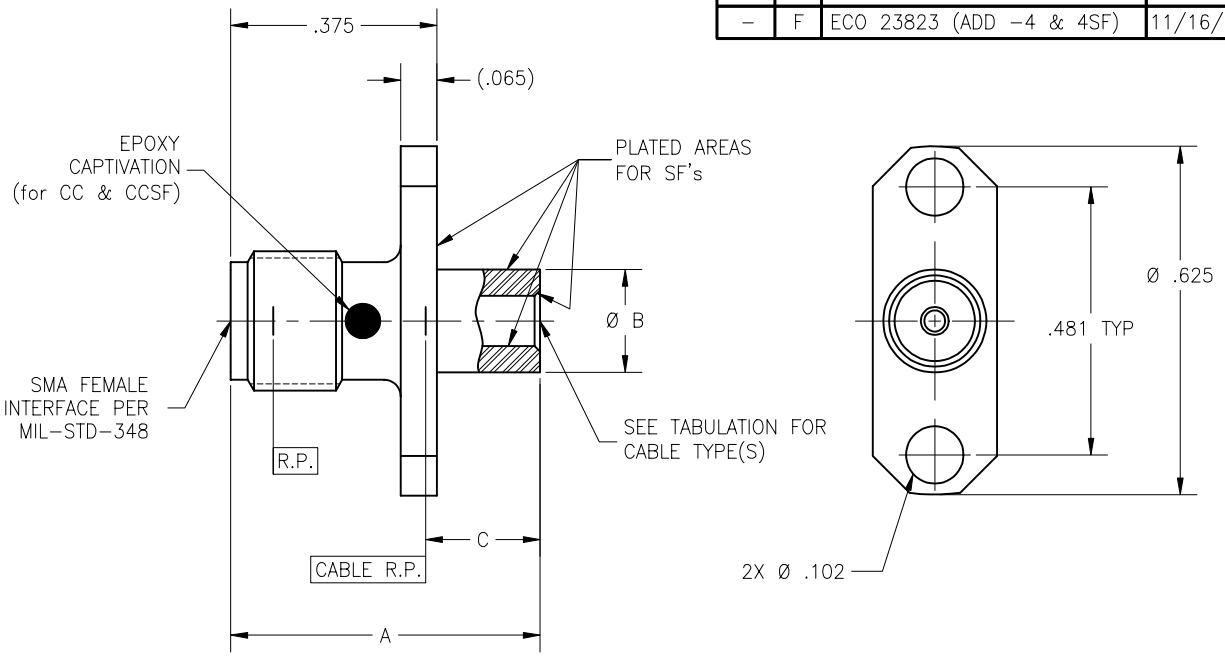
P/N	A	Ø B	C	CABLE TYPE(S)
−1	.555	.185	.205	Ø .141 SEMI−RIGID
−1SF	.555	.185	.205	Ø .141 SEMI−RIGID
−2	.500	.125	.150	Ø .085 SEMI−RIGID
−2SF	.500	.125	.150	Ø .085 SEMI−RIGID
−2CC	.500	.125	.150	Ø .085 SEMI−RIGID
−2CCSF	.500	.125	.150	Ø .085 SEMI−RIGID
−3	.555	.185	.205	Ø .141 LOW LOSS
−3SF	.555	.185	.205	Ø .141 LOW LOSS
−4	.500	.125	.150	Ø .085 LOW LOSS
−4SF	.500	.125	.150	Ø .085 LOW LOSS
−5CC	.440	.095	.064	Ø .047 SEMI−RIGID
−5CCSF	.440	.095	.064	Ø .047 SEMI−RIGID

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	BY
–	D	ECO 20614 (ADD −5CC & −5CCSF)	10.04.07	DKN
–	E	ECO 20696	11.01.07	DKN
–	F	ECO 23823 (ADD −4 & 4SF)	11/16/10	ABN



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: $.03\sqrt{f}$ (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 CARLISLE IT 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	IMG	03.13.02
CHECKED BY	DNg.	04.12.11
TEST ENGG		
QUALITY		
DESIGN ENGG	PCV	11.16.10
MFG ENGG		

CARLISLE Interconnect Technologies Long Beach, CA 90815

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

SCALE	SUB−DIRECTORY\FILENAME	SHEET
8:1	OL_\	1 OF 1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	5229	F

ENG−DWG REV. C