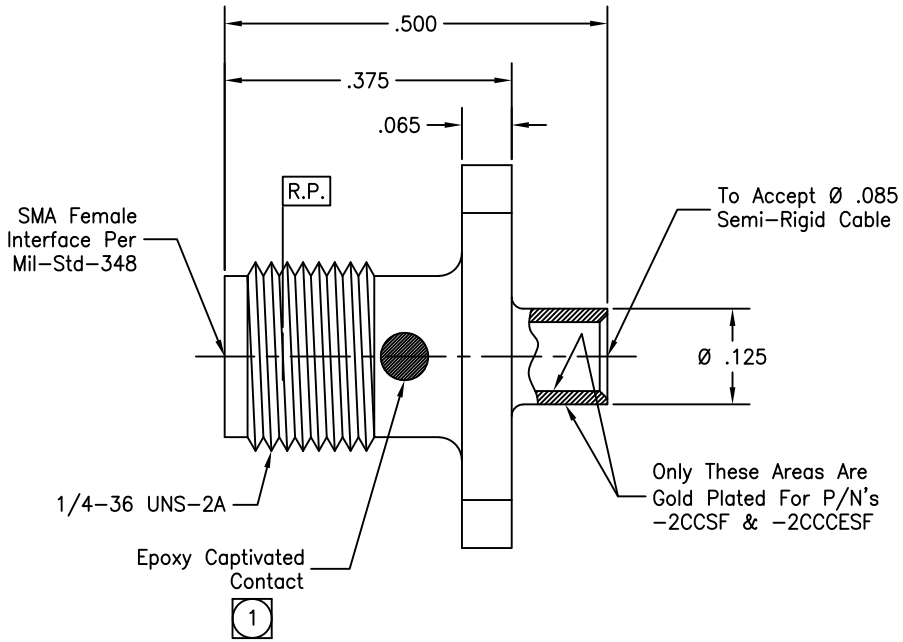
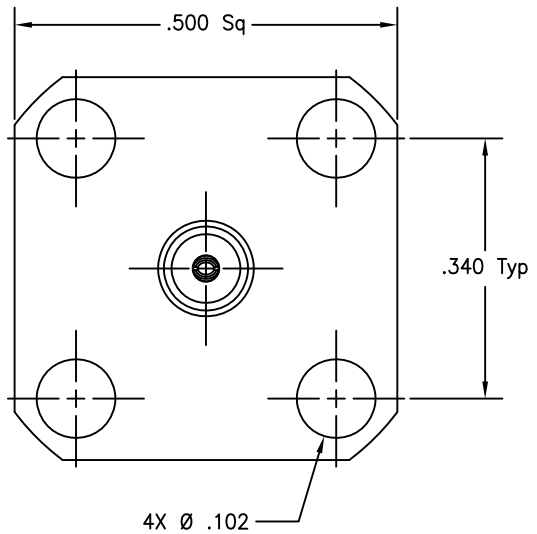
P/N	APPLICABLE NOTE(S)
−2CC	
−2CCSF	
−2CCCE	1
−2CCCESF	1

REVISIONS			
REV	DESCRIPTION	DATE	BY
B	ECO 22129	04.09.09	P.MAO
C	ECO 202352 (ADD NEW NAME)	11.20.24	DKN





Note(s):

1. For p/n's −2CCCE and −2CCCESF's, conductive epoxied is required.

MATERIAL:

Body:
303 sst per ASTM A−582.
Center Conductor:
BeCu alloy per ASTM B−196.
Insulator:
PTFE per ASTM D−1710.
Epoxy:
Sigma VF, Type HV.
Conductive Epoxy (for CCE & CCCESF):
Ablebond 16−1 or Eccobond 56C.

ELECTRICAL:

Impedance: 50 Ohms nominal.
Freqancy Range: DC to 18.0 GHz.
VSWR: 1.05 + .005 X f(GHz).
Insertion Loss: .03 $\sqrt{f}$ (GHz).
Working Voltage: 500 Vrms max @ sea level.
Dielectric Withstanding Voltage: 1,500 Vrms min.
R.F. HiPot Voltage: 1,000 Vrms min @ 5MHz.
Corona Level: 375 Vrms @ 70,000 ft.
Insulation Resistance: 5,000 MegOhms min.
R.F. Leakage: −(60 − fGHz) dB min.
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:

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.

ENVIRONMENTAL:

Temperature Range: −65°C to +125°C.
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. D.
Shock:
Mil−Std−202, Method 213, Test Cond. I.
Solderability:
Mil−Std−202, Method 208.

FINISH:

Body:
Gold plated per ASTM B−488, Type II, Code C, Class 0.25, over nickel plate per SAE AMS−QQ−N−290, Class 1, .000050 min.
For −2CCSF & −2CCCESF's: Passivated per ASTM A−967; EXCEPT gold plated required only area as noted for cable solderability.
Center Conductor:
Gold plate per ASTM B−488, Type II, Code C or D, Class 1.25, over nickel plate per SAE AMS−QQ−N−290, Class 1, .000050 min, over copper strike.

APPLICABLE Amphenol CDI DOCUMENTS

WORK STD	PROD INST	ASSY INST
NA	NA	NA

TOLERANCES AND NOTES EXCEPT AS NOTED

INTERPRET DRAWING PER ASME Y14.5−2018

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 11−28.
9. REMOVE FRAYED EDGES ON TEFLON.
10. REMOVE ALL BURRS.

–	–	–	–
MATERIAL		SPECIFICATION	PROCUREMENT

APPROVAL	INITIALS	DATE
DRAWN BY	IMG	03/13/02
CHECKED BY	P.MAO	04.09.09
TEST ENGG		
QUALITY		
DESIGN ENGG	PCV	04.09.09
MFG ENGG		
ECO APPRV	DNg	11.20.24

Amphenol CDI
12900 Alondra Blvd.
Cerritos, CA 90703

TITLE: SMA FEMALE 4 HOLE FLANGE MOUNT TO Ø .085 S/R CABLE WITH CAPTURED CONTACT

SCALE	DIRECTORY\SUB−DIRECTORY	SHEET
8:1	_OUTLINE\	1 OF 1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	5224	C

ENG−DWG REV. H