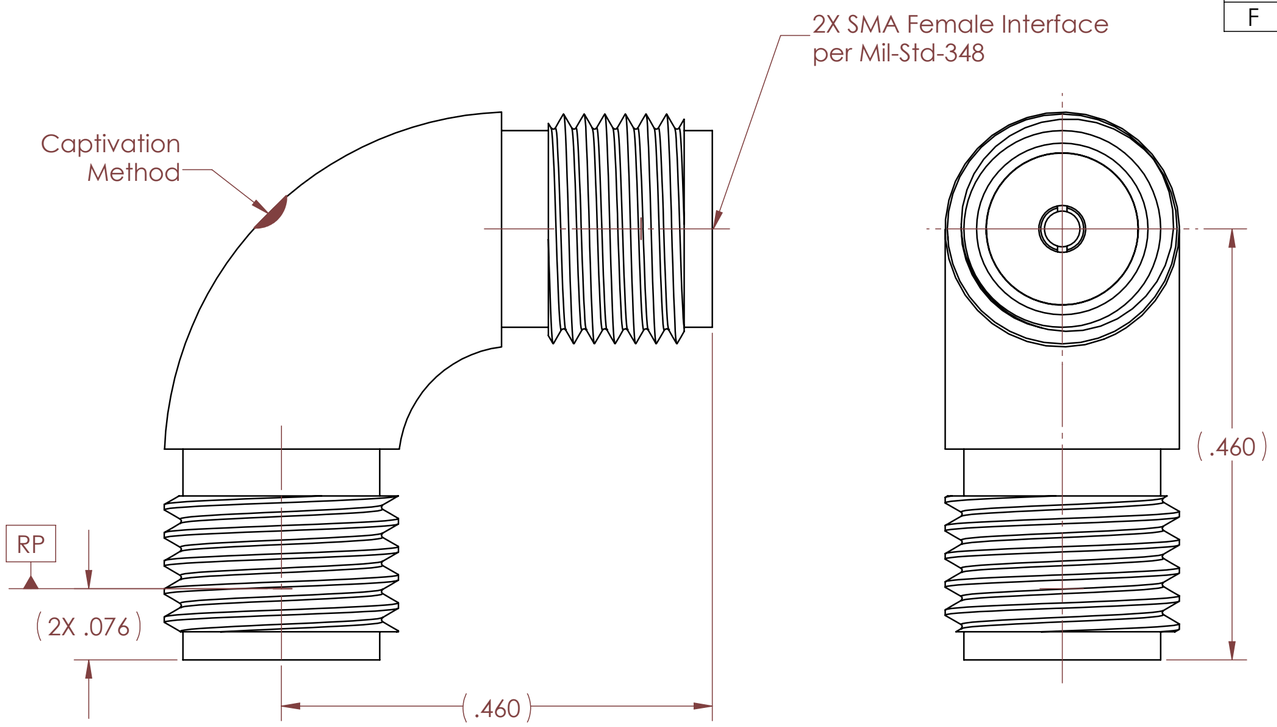
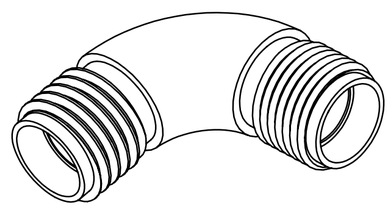
PART NO.	CAPTIVATION METHOD
BASIC	NONE
SF	NONE
CC	EPOXY ONLY
CCSF	EPOXY ONLY
CCCE	EPOXY WITH CONDUCTIVE
CCCESF	EPOXY WITH CONDUCTIVE

REVISIONS			
REV.	DESCRIPTION	DATE	BY
D	ECO 26011	07.25.12	DKN
E	ECO 27338	10.16.13	DKN
F	ECO 204053 (CHG NAME)	07.01.25	DKN





MATERIAL(S):

Body:
304 SST per SAE-AMS-5567
Center Conductor:
BeCu Alloy per ASTM B196
Dielectric:
PTFE Teflon per ASTM D1710
Epoxy:
Sigma VF Type HV
Conductive Epoxy:
Eccobond 56C

ELECTRICAL(S):

Impedance: 50 Ohms Nominal
Frequency Range: DC to 18.0 GHz
VSWR: 1.25: max @ 18GHz
Insertion Loss: .20 dB max @ 18GHz
Working Voltage: 335 Vrms max @ Sea Level
Dielectric Withstand Voltage: 1,000 Vrms min.
RF HiPot Voltage: 670 Vrms min. @ 5MHz
Corona Level: 250 Vrms @ 70,000 ft
Insulation Resistance: 5,000 MegOhms min.
RF Leakage: -(65 - fGHz) dB (For CC & CCSF).
RF Leakage: -(90 - fGHz) dB (For BASIC & SF).
Contact Resistance:
Before Environment:
Center Contact: 3.0 Milliohms max
Outer Contact: 2.0 Milliohms max
After Environment:
Center Contact: 4.0 Milliohms max
Outer Contact: NA

MECHANICAL(S):

Mating Characteristics:
Interface per MIL-STD-348
Force to Engage & Disengage:
Torque: 2 inch-lbs max
Longitudinal Force: NA
Connector Durability:
500 Cycles min. @ 12 cycles/minute max
Permeability: Less than 2.0 mu.
Center Contact Retention:
** Axial Force: 6 lbs min.

** Not applicable to P/N 5065 and 5065SF

ENVIRONMENTAL(S):

Temperature Range:
For BASIC & SF: -65°C to +165°C
For CC, CCSF, CCCE & CCCESF: -65°C to +125°C
Thermal Shock:
MIL-STD-202, Method 107, Test Condition 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 Condition B
Vibration:
MIL-STD-202, Method 204, Test Condition D
Shock:
MIL-STD-202, Method 213, Test Condition I

FINISH(ES):

Body:
For SF & CCSF: Passivate per ASTM A967 or SAE AMS 2700.
For BASIC & CCSF: Gold plate per ASTM B488, Type II, Code C, Class .25, over Nickel plate per SAE AMS-QQ-N-290, Class 1.
Center Conductor:
Gold plate per ASTM B488, Type II, Code C or D, Class 1.25, over Nickel plate per SAE AMS-QQ-N-290, Class 1.

APPLICABLE Amphenol CDI DOCUMENTS

WORK STANDARD	PROD INSTRUC	ASSY INSTRUC
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
INTERPRET DRAWING PER ASME Y14.5 - 2018
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 AFTER PLATING.
7. CHAMFER ALL THREADS 45°.
8. THREADS PER H-28
9. REMOVE FRAYED EDGES ON TEFLON.
10. REMOVE ALL BURRS.

MATERIAL		
APPROVAL	INITIALS	DATE
DRAWN BY	JF	11.12.04
CHECKED BY	-	-
TEST ENGR	-	-
QUALITY	-	-
DESIGN ENG	P.MAO	10.02.09
MFG. ENGR	-	-
ECO APPRV	DNg	07.09.25

-	-	-
MATERIAL	SPECIFICATION	PROCUREMENT

Amphenol CDI 12900 Alondra Blvd. Cerritos, CA 90703

TITLE: SMA MALE TO SMA MALE RADIUS R/A, ADAPTER

SCALE	SUB-DIRECTORY/	SHEET
8:1	_OUTLINE\	1 OF 1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	5095	F