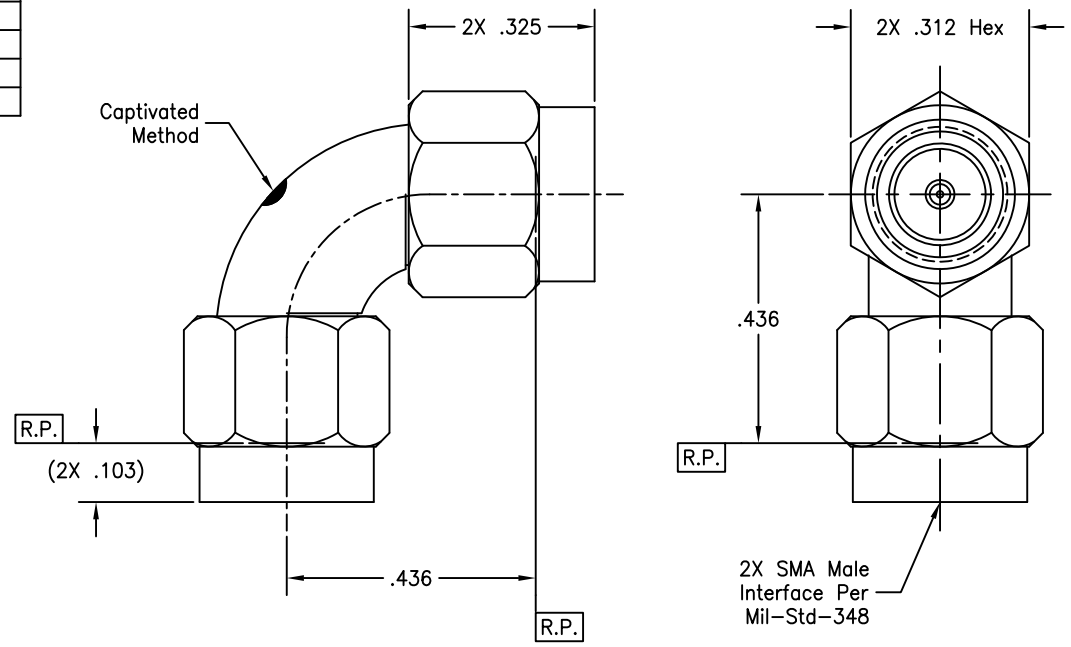
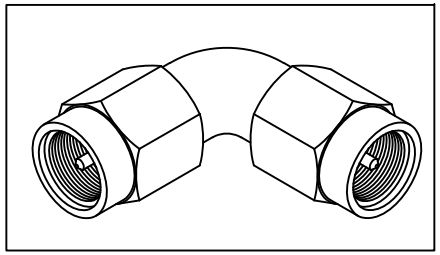
P/N	CAPTIVATION METHOD
BASIC	NONE
CC	EPOXY ONLY
SF	NONE
CCSF	EPOXY ONLY

REVISIONS			
REV	DESCRIPTION	DATE	BY
B	ECO 24118	02/07/11	ABN
C	ECO 27337	10.16.13	DKN
D	ECO 202420 (ADD NEW NAME)	12.03.24	DKN





MATERIAL(S):

Body:
304 sst per SAE-AMS-5567.
Coupling Nut:
303 sst per ASTM A-582.
Center Conductor:
BeCu alloy per ASTM B-196.
Retaining Ring:
BeCu alloy per ASTM B-197.
Dielectric:
PTFE per ASTM D-1710.
Epoxy:
Sigma VF type HV.
Gasket:
Silicone rubber per A-A-59588.

ELECTRICAL(S):

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18.0 GHz.
VSWR: 1.25:1 max @ 18GHz.
Insertion Loss: .20 dB max @ 18GHz.
Working Voltage: 335 Vrms max @ sea level.
Dielectric Withstanding Voltage: 1,000 Vrms min.
R.F. HiPot Voltage: 670 Vrms min @ 5MHz.
Corona Level: 250 Vrms @ 70,000 ft.
Insulation Resistance: 5000 MegOhms min.
R.F. Leakage: -(65 - fGHz) dB (For CC & CCSF's).
R.F. Leakage: -(90 - fGHz) dB (For BASIC & SF's).
Contact Resistance:
Before Environmental:
Center Contact: 3.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.
After Environmental:
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.
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.
Coupling Mechanism Retention Force:
60 pounds minimum
Coupling Proof Torque:
15 inch-pounds minimum.

** Not applicable to Part No.'s 5065 And 5065SF.

ENVIRONMENTAL(S):

Temperature Range: -65°C to +125°C (All Captivated)
-65°C to +165°C (Basic & SF)
Thermal Shock:
Mil-Std-202, Method 107, Test Cond. A.
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.
Vibration:
Mil-Std-202, Method 204, Test Cond. D.
Shock:
Mil-Std-202, Method 213, Test Cond. I.

FINISH(ES):

Body & Coupling Nut:
(For SF & CCSF's): Passivate per ASTM A-967.
(For BASIC & CC's): Gold plate per ASTM B-488, Type II, Code C, Class .25; Over nickel under plate per SAE-AMS-QQ-N-290, Class 1.
Center Conductor:
Gold plate per ASTM B-488, Type II, Code C or D, Class 1.25; Over nickel under plate per SAE-AMS-QQ-N-290, Class 1.

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 H-28.
9. REMOVE FRAYED EDGES ON TEFLON.
10. REMOVE ALL BURRS.

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			MATERIAL	SPECIFICATION	PROCUREMENT
APPROVAL INITIALS		DATE			
DRAWN BY	ATV	02.06.02	Amphenol CDI	12900 Alondra Blvd. Cerritos, CA 90703	
CHECKED BY					
TEST ENGG			TITLE: SMA MALE TO SMA MALE RADIUS RIGHT ANGLE ADAPTER		
QUALITY					
DESIGN ENGG	H.N.	02.15.11	SCALE 6:1	DIRECTORY\SUB-DIRECTORY _OUTLINE\	SHEET 1 OF 1
MFG ENGG			SIZE C	CAGE CODE 30990	DRAWING NO. 5065 REV. D
ECO APPRV	DNg	12.03.24			

ENG-DWG REV. H