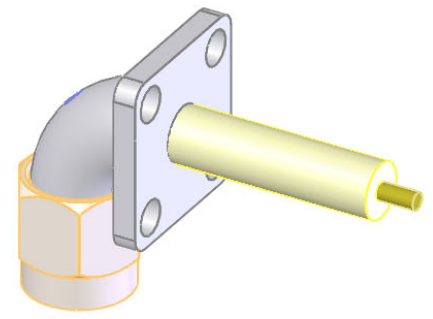
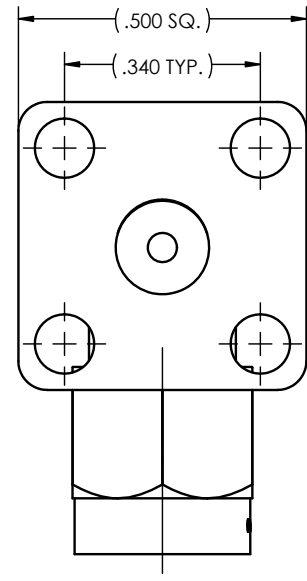
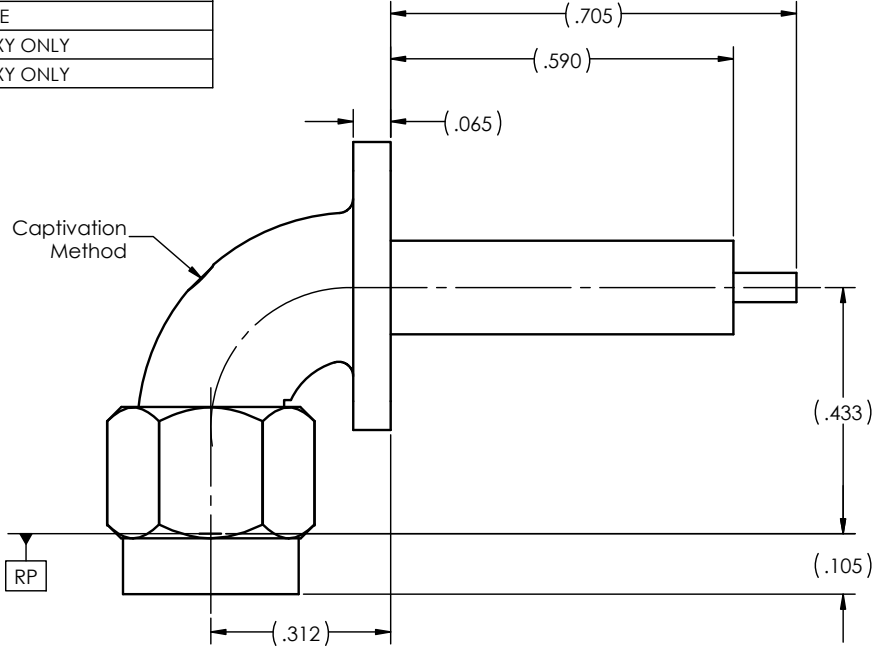


PART NO.	CAPTIVAION METHOD
5901	NONE
5901SF	NONE
5901CC	EPOXY ONLY
5901CCSF	EPOXY ONLY



REVISION HISTORY				
ECO	REV.	DESCRIPTION	DRAWN BY	DATE
27089	D	ADD SPEC DATA	DKN	07/10/2013
204093	E	CHANGE TO NEW NAME	DKN	07/18/2025



MATERIAL(S):
 Body:
 303 SST per ASTM A743, Grade CF 16FA
 Coupling Nut:
 303 SST per ASTM A582
 Center Conductor:
 BeCu Alloy C173 per ASTM B196
 Retaining Ring:
 BeCu Alloy C172 per ASTM B197
 Insulator:
 PTFE Teflon per ASTM D1710
 Gasket:
 Silicone per A-A-59588
 Epoxy: (For CC & CCSF)
 Sigma VF type HV

ELECTRICAL(S):
 Impedance: 50 Ohms Nominal
 Frequency Range: DC to 18.0 GHz
 VSWR: 1.30:1 max @ 18GHz
 Insertion Loss: .30 dB max at 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's).
 RF Leakage: -(90 - fGHz) dB (For BASIC & SF's).
 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
 Center Contact Retention:
 ** Axial Force: 6 lbs min.
 Connector Durability:
 500 Cycles min. @ 12 cycles/minute max
 Permeability: Less than 2.0 mu.
 Coupling Mech. Retention: 60 pounds min.
 Coupling Proof Torque:
 15 inch-pounds min.
 7 - 10 inch-pounds where test is performed
 on mated pairs.
 ** not applicable to P/N 5901 & 5901SF

ENVIROMENTAL(S):
 Temperature Range: -65°C to +125°C (For CC's)
 -65°C to +165°C (For Basic & SF)
 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 & Coupling Nut:
 (For SF & CCSF): Passivate per ASTM A967, except at ID of body & cable entrance.
 (For BASIC & CC): 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, 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

TOLERANCES AND NOTES
 EXCEPT AS NOTED
 DIMENSIONS ARE IN INCHES.
 LINEAR .XX ± .015 / .XXX ± .005
 FRACTION ± 1/32 ANGULAR ± 1/2°
 1. INTERPRET DRAWING PER ASME Y14.5 - 2018
 2. MACHINE FINISH: 63 RMS
 3. BREAK ALL SHARP EDGES .003 MAX.
 4. MACHINED FILLETS .005 MAX.
 5. MACHINED SURFACES SQUARE TO RESPECTIVE AXIS WITHIN .005 INCHES PER INCH.
 6. MACHINED DIAMETERS CONCENTRIC WITHIN .002 T.I.R.
 7. DIMENSIONS TO BE MET AFTER PLATING.
 8. CHAMFER ALL THREADS 45°.
 9. THREADS PER H-28
 10. REMOVE FRAYED EDGES ON TEFLON.
 11. REMOVE ALL BURRS.

MATERIAL		
APPROVAL	INITIALS	DATE
DRAWN BY	DKN	12/09/2003
CHECKED BY	-	-
TEST ENG	-	-
QUALITY	-	-
DESIGN ENG	ATV	12/09/2003
MFG ENG	-	-
ECO APPRV	DNg	07/22/2025

SPECIFICATION		PROCUREMENT	
Amphenol CDI		12900 Alondra Blvd. Cerritos, CA 90703	
TITLE SMA MALE RADIUS R/A 4-HOLE FLANGE MOUNT TO STRSIGHT TERMINATION			
SCALE 6:1	SUB-DIRECTORY/ OUTLINE/	SHEET 1 OF 1	
SIZE C	CAGE CODE 30990	DRAWING NO. OL 5901	REV. E