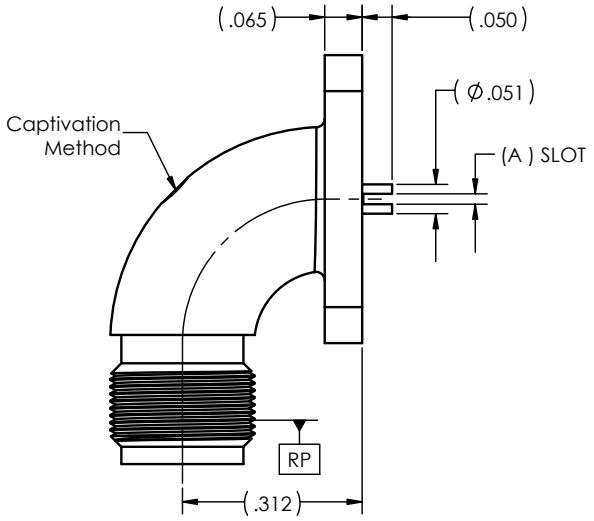
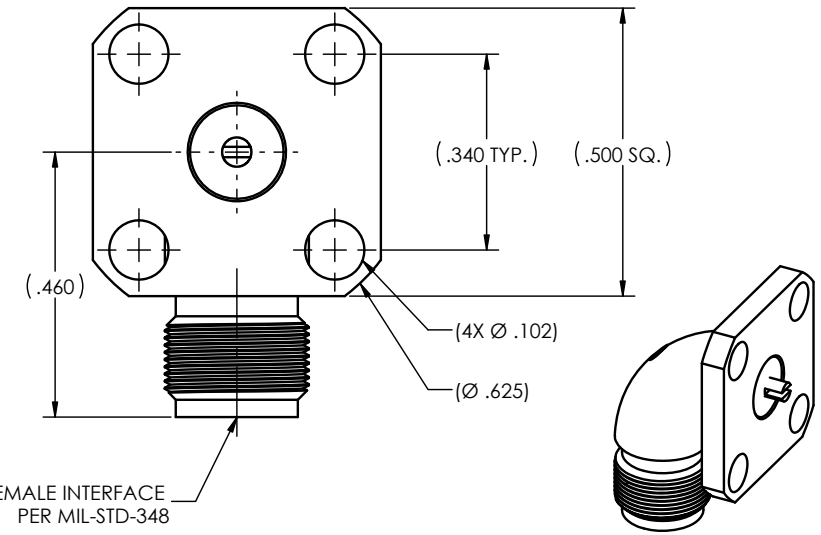
PART NO.	(A) SLOT	CAPTIVATION METHOD
-1	.012	NR
-1CC	.012	Epoxy Only
-1CCCE	.012	Epoxy with Conductive
-1CCCESF	.012	Epoxy with Conductive
-1CCSF	.012	Epoxy Only
-1SF	.012	NR
-2	.018	NR
-2CC	.018	Epoxy Only
-2CCCE	.018	Epoxy with Conductive
-2CCCESF	.018	Epoxy with Conductive
-2CCSF	.018	Epoxy Only
-2SF	.018	NR
-3	.028	NR
-3CC	.028	Epoxy Only
-3CCCE	.028	Epoxy with Conductive
-3CCCESF	.028	Epoxy with Conductive
-3CCSF	.028	Epoxy Only
-3SF	.028	NR
-4	.036	NR
-4CC	.036	Epoxy Only
-4CCCE	.036	Epoxy with Conductive
-4CCCESF	.036	Epoxy with Conductive
-4CCSF	.036	Epoxy Only
-4SF	.036	NR

RoHS 3 Compliant EU 2011/65

REVISION HISTORY				
ECO	REV.	DESCRIPTION	DRAWN BY	DATE
	A	ECO 14632	ATV	06/19/2002
	B	ECO 20618	ATV	10/08/2007
204093	C	REDRAW WITH CHANGE	DKN	7/21/2025





MATERIAL(S):

Body:
303 SST per ASTM A582
Center Conductor:
BeCu Alloy per ASTM B196
Dielectric:
PTFE Teflon per ASTM D1710
Epoxy:
Sigma VF Type HV
Conductive Epoxy:
Eccond 56C

ELECTRICAL(S):

Impedance: 50 Ohms Nominal
Frequency Range: DC to 18 GHz
VSWR: 1.30:1 max @ 18GHz
Insertion Loss: .30 dB max @ 18GHz
Working Voltage: 335 Vrms max @ Sea Level
Dielectric Withstand Voltage: 1,000 Vrms min.
RF HiPot Voltage: 670 Vrms min. @ 5MHz
Insulation Resistance: 5,000 MegOhms min.
RF Leakage: -(90 - fGHz) dB.
Contact Resistance:
Initial:
Center Contact: 6.0 Milliohms max
Outer Contact: 2.0 Milliohms max
After Environment:
Center Contact: 6.0 Milliohms max
Outer Contact: 2.0 Milliohms max

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.

ENVIROMENTAL(S):

Temperature Range:
-65°C to +125°C (For CC's)
-65°C to +165°C (For BASIC & SF's)
Thermal Shock:
MIL-STD-202, Method 107, Test Condition A
Moisture Resistance:
MIL-STD-202, Method 106, except step 7b shall be obmitted. Insulation resistance at least 1000 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's): Passivate per ASTM A967 or SAE AMS 2700.
(for Basic & CC's): Gold plate per ASTM B488, Type II, Code C, Class 0.25, over nickel under 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 under 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. 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	RC	03/27/2002
CHECKED BY	-	-
TEST ENG	-	-
QUALITY	-	-
DESIGN ENG	ATV	11/07/2007
MFG ENG	-	-
ECO APPRV	DNg	07/22/2025

SPECIFICATION	PROCUREMENT
-	-

Amphenol CDI
12900 Alondra Blvd.
Cerritos, CA 90703

TITLE: SMA FEMALE RADIUS R/A 4 HOLE FLANGE (.500 SQ.) MOUNT TO HOR. SLOT TERMINATION

SCALE	SUB-DIRECTORY/	SHEET
6:1	_OUTLINE/	1 OF 1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	OL_5580	C

ENG-SW REV. K