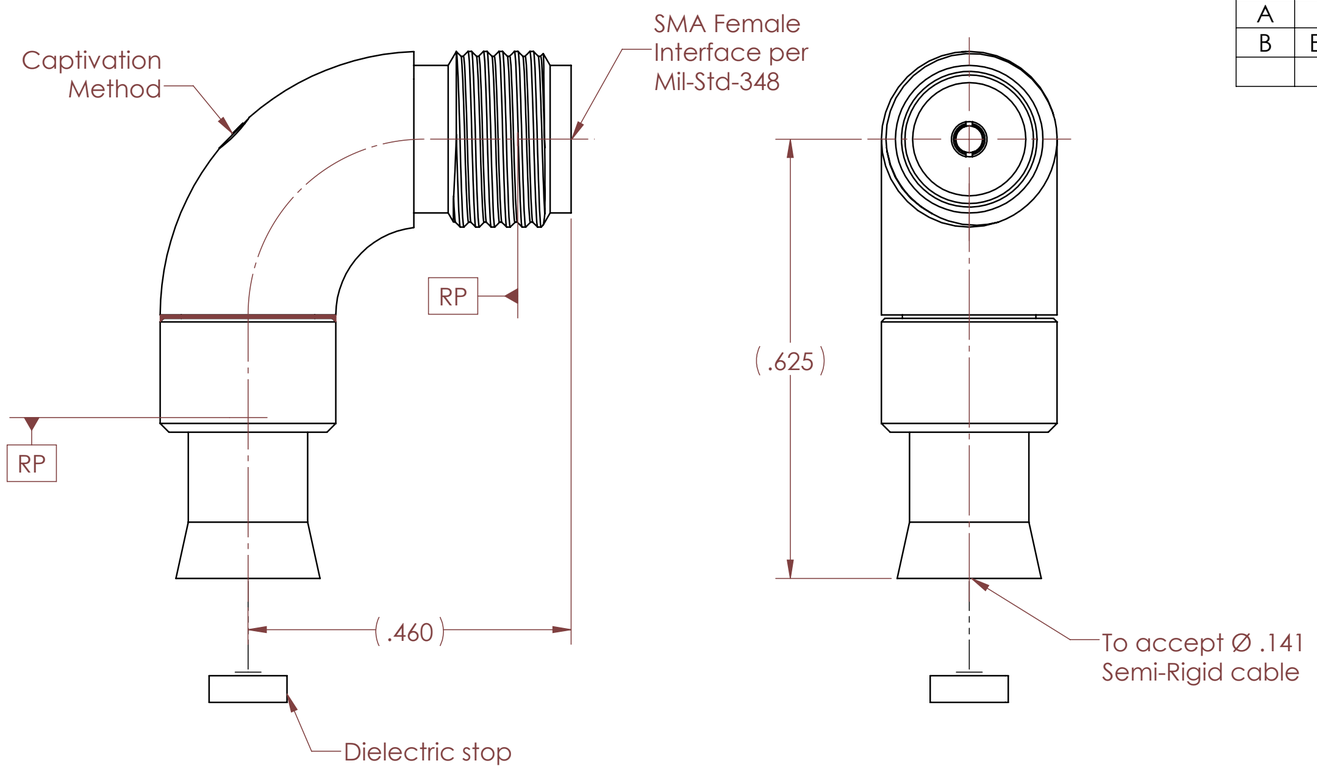
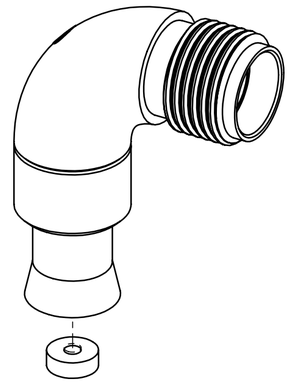
PART NO.	CAPTIVAION METHOD
-1	NONE
-1SF	NONE
-1NP	NONE
-1V	NONE
-1CC	EPOXY ONLY
-1CCSF	EPOXY WITH CONDUCTIVE

REVISIONS			
REV.	DESCRIPTION	DATE	BY
A	ECO 21062	03.10.08	DKN
B	ECO 204053 (REDRAW SW W/CHG)	07/03/2025	DKN





Note: Dielectric Stop to be shipped unassembled.

MATERIAL(S):

Body Sub-Assembly:
303 SST per ASTM A582 and
304 SST per SAE-AMS5370
Center Conductor:
BeCu Alloy per ASTM B-196
Insulator:
PTFE Teflon per ASTM D-1710
Epoxy: (For CC's)
** Sigma VF type HV
Conductive Epoxy: (For CE's)
** Eccobond 56C

** Not applicable to P/N. 5235-1 & 5235-1SF

ELECTRICAL(S):

Impedance: 50 Ohms Nominal
Frequency Range: DC to 18.0 GHz
VSWR: 1.30:1 max @ 18GHz
Insertion Loss: .20 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: 375 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: 4.0 Milliohms max
Outer Contact: 2.0 Milliohms max
After Environment:
Center Contact: 6.0 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.
Cable Retention Force:
Axial Force: 60 lbs min.

ENVIRONMENTAL(S):

Temperature Range: -65°C to +125°C (For CC's)
-65°C to +165°C (For -1, -1NP, -1SF, -1V)
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 & Flange:
(For SF's): Zone gold plated at ID of cable entrance.
(For -1,-1CC, -1CCCE, -1V): Gold plate per ASTM B488, type II, code C, Class .25, over Nickel plate per SAE AMS-QQ-N-290, Class 1.
(For -1NP): Bright 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	AI-118
-		

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	IMG	3.15.02
CHECKED BY	-	-
TEST ENGR	-	-
QUALITY	-	-
DESIGN ENG	ATV	03.10.08
MFG. ENGR	-	-
ECO APPRV	DNg	07.09.25

-	-
SPECIFICATION	PROCUREMENT

Amphenol CDI 12900 Alondra Blvd. Cerritos, CA 90703

TITLE: SMA FEMALE RADIUS R/A TO Ø.141 SEMI-RIGID CABLE

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

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	OL_5235-1	B

ENG-SW REV. J