

P/N	APPLICABLE NOTE(S)	CABLE TYPE(S)	Ø A	FIGURE(S)
-1CC	1	Ø .047 SEMI-RIGID CABLE	.049 MIN	3
-2CC	2	Ø .085 SEMI-RIGID CABLE	.085 MIN	1
-3CC	1	Ø .047 MICROPOROUS CABLE	.047 MIN	3
-4CC	2	Ø .085 MICROPOROUS CABLE	.085 MIN	1
-5CC	1	Ø .047 SEMI-RIGID CABLE	.047 MIN	4
-6CC	2	Ø .085 SEMI-RIGID CABLE	.085 MIN	2
-7CC	1	Ø .047 MICROPOROUS CABLE	.047 MIN	4
-8CC	2	Ø .085 MICROPOROUS CABLE	.085 MIN	2
-9CC	3,4	Ø .085 MICROPOROUS CABLE	.085 MIN	1
-10CC	3,4	Ø .085 SEMI-RIGID CABLE	.085 MIN	1
-11CC	1,5	Ø .047 SEMI-RIGID CABLE	.049 MIN	3

REVISIONS			
REV	DESCRIPTION	DATE	BY
N	ECO 26096 (OBSOLETE -5 THRU -10CC)	08.21.12	DKN
P	ECO 32314 (ADD -5 THRU -11CC)	04.26.17	DKN
R	ECO 202352 (ADD NEW NAME)	11.25.24	DKN

SEE SHEET 2 OF 2 FOR CONFIGURATIONS

Note(s):

- Center conductor and dielectric stop to be packaged and shipped unassembled.
- Center conductor to be packaged and shipped unassembled.
- Mechanically captivated contact.
- Part No. P651-9CC and -10CC are for low frequency application only.
4.1 Frequency Range: DC to 6.0 GHz.
- Anti-Rock Ring to be packaged and shipped unassembled.

MATERIAL(S):	ELECTRICAL(S):	MECHANICAL:	ENVIRONMENTAL:
Body, Center Conductor, Anti-Rock Ring: BeCu alloy per ASTM B-196. Insulator: PTFE per ASTM -D-1710. Dielectric Stop: ** Torlon per Mil-P-46179A.	Impedance: 50 ohms nominal. Frequency Range: DC to 40.0 GHz, VSWR: 1.05 + .005 x f (GHz). Insertion Loss: .05 √f (GHz) dB. Working Voltage: 335 Vrms at sea level. 65 Vrms at 70,000 ft. DWW: 500 Vrms min at seal level. 125 Vrms at 70,000 ft. RF HiPot Voltage: 325 Vrms min at sea level. Corona Level: 190 Vrms min at 70,000 ft. Insulation Resistance: 5,000 megohms min. Contact Resistance: Center Contact: 6.0 milliohms max. Outer Contact: 2.0 milliohms max Permeability: Less than 2.0 mu. R.F. Leakage: -80 dB min DC to 3 GHz. -65 dB min from 3.5 to 26.5 GHz.	Interface Dimension: Per Mil-Std-348. Connector Durability: 100 cycles min with Full Detent. 500 cycles min with Limited Detent. 1000 cycles min with Smooth Bore. Center Contact Retention: 1.5 pound min axial force. Force To Engage: 15 pounds max with Full Detent. 10 pounds max with Limited Detent. 2 pounds max with Smooth Bore. Force To Disengage: 5 pounds min with Full Detent. 2 pounds min with Limited Detent. .5 pound min with Smooth Bore.	Temperature Range: -65°C to +165°C. Thermal Shock: Mil-Std-202, Method 107, Test Cond. B, except high temp to be +165°C or maximum high temp of the cable. Moisture Resistance: Mil-Std-202, Method 106, except step 7b shall be omitted. Resistance shall be 1,000 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. Solderability: Mil-Std-202, Method 208.

** Applicable to Ø .047 cables only.

FINISH(ES):	APPLICABLE Amphenol CDI DOCUMENTS	TOLERANCES AND NOTES EXCEPT AS NOTED	-		-		-		
Body, Center conductor, and Anti-Rock Ring: Gold plate per ASTM B-488, type II, grade C, class 1.25; over nickel under plate per SAE-AMS-QQ-N-290, class 3.	WORK STD NA	PROD INST NA	ASSY INST AI-292 AI-300	MATERIAL		SPECIFICATION		PROCUREMENT	
	<p align="center">NOTICE</p> <p>THIS DRAWING EMBODIES A CONFIDENTIAL, PROPRIETARY DESIGN ORIGINATED BY Amphenol CDI AND ALL DESIGN, MANUFACTURING, RE-PRODUCTION, USE AND SALE RIGHTS REGARDING THE SAME ARE EXPRESSLY RESERVED. IF IT IS SUBMITTED UNDER A CONFIDENTIAL RELATIONSHIP FOR A SPECIFIC PURPOSE AND THE RECIPIENT AGREES BY ACCEPTING THIS DRAWING NOT TO SUPPLY OR DISCLOSE ANY INFORMATION REGARDING IT TO ANY UN-AUTHORIZED PERSON TO INCORPORATE INTO OTHER PROJECTS ANY SPECIAL FEATURE PECULIAR TO THIS DESIGN ALL PATENT RIGHTS HERETO ARE EXPRESSLY RESERVED BY Amphenol CDI, Cerritos, CA 90703</p>			<p>INTERPRET DRAWING PER ASME Y14.5-2018</p> <p>DIMENSIONS ARE IN INCHES: LINEAR .001 ±.015 ANGULAR ± 1/2° FRACTION ± 1/32</p> <p>1. MACHINE FINISH: 63/RMS 2. BREAK ALL SHARP EDGES .003 MAX. 3. MACHINED FILLETS .005 MAX. 4. MACHINED SURFACES SQUARE TO RESPECTIVE AXES 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 11-26. 9. REMOVE FRAVED EDGES ON TEFLON. 10. REMOVE ALL BURRS.</p>		APPROVAL INITIALS DRAWN BY BRD	DATE 11/09/93	<p align="center">Amphenol CDI</p> <p>12900 Alondra Blvd. Cerritos, CA 90703</p>	
	DESIGN ENGG P.MAO	DATE 05.16.07	SCALE 10:1	TITLE SMP FEMALE STRAIGHT TO SEMI-RIGID OR LOW LOSS CABLE		SHEET 1 OF 2			
	MFG ENGG	DATE 11.25.24	SIZE C	CAGE CODE 30990	DRAWING NO. P651	REV. R			

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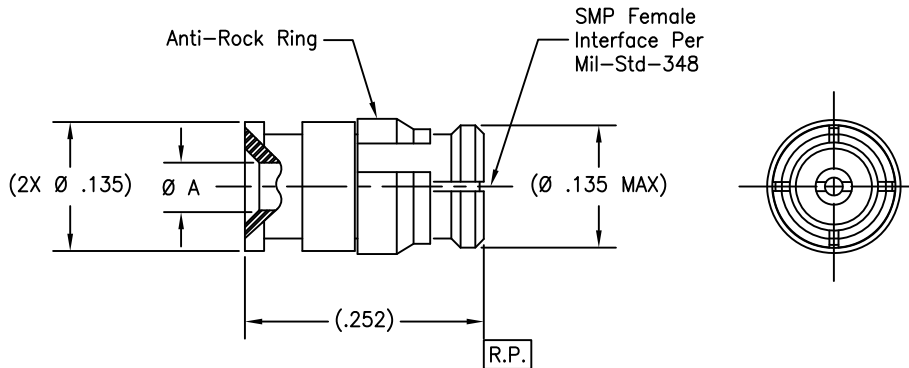


FIG. 1

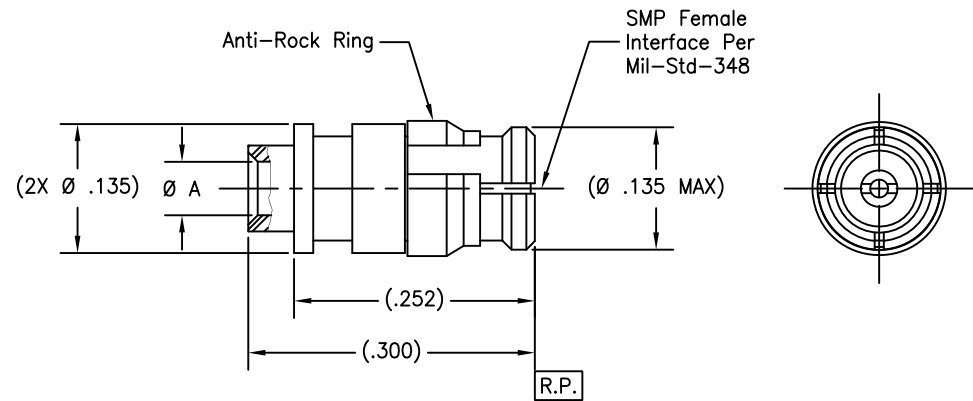


FIG. 3

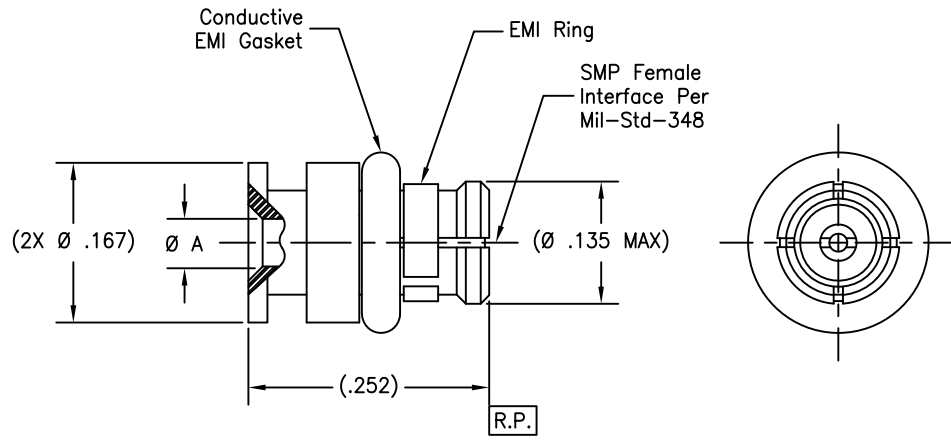


FIG. 2

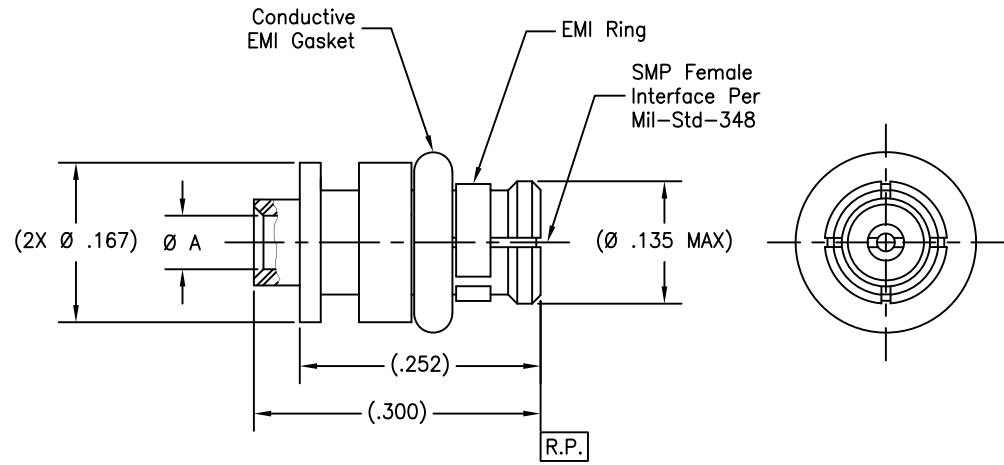


FIG. 4

SCALE	10:1	DIRECTORY\SUB-DIRECTORY	SHEET 2 OF 2
SIZE	C	_OUTLINE/	REV.
	30990	P651	R

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