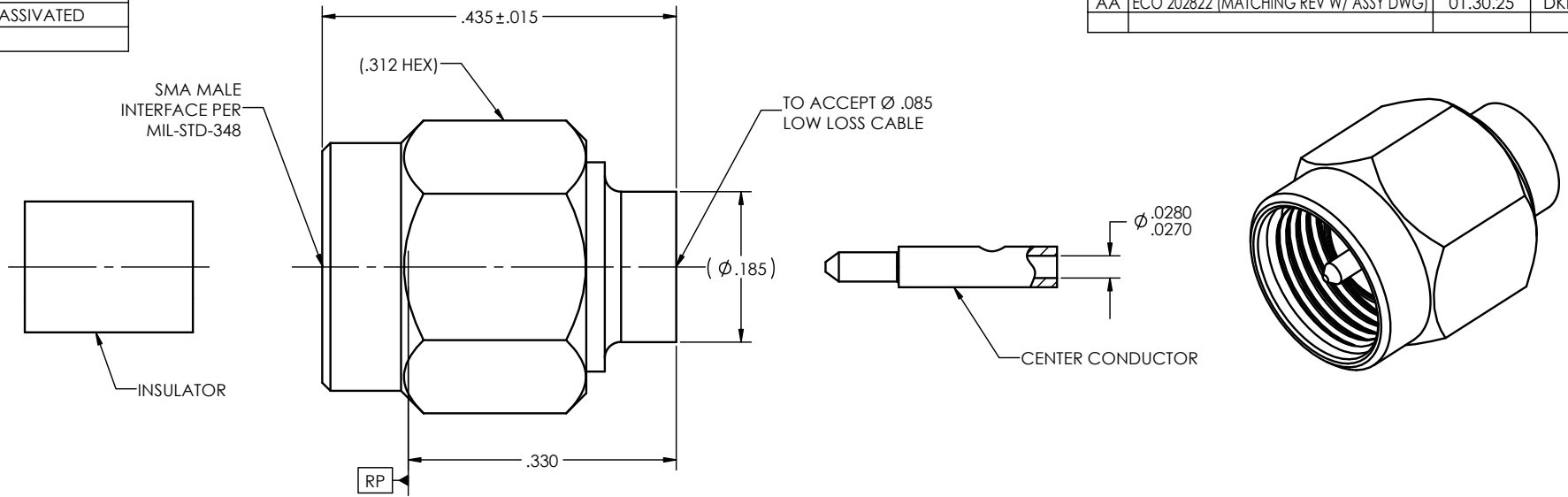


PART NO.	COUPLING NUT FINISHED
BASIC	GOLD
SF	PASSIVATED

REVISIONS			
REV.	DESCRIPTION	DATE	BY
A	ECO 202352 (ADD NEW NAME)	11.20.24	DKN
AA	ECO 202822 (MATCHING REV W/ ASSY DWG)	01.30.25	DKN



NOTE(S):
CENTER CONDUCTOR AND INSULATOR TO BE PACKAGED AND SHIPPED UNASSEMBLED.

MATERIAL(S):	ELECTRICAL(S):	MECHANICAL(S):	ENVIRONMENTAL(S):
Body & Coupling Nut: 303 SST per ASTM A-582 Center Conductor: Brass Alloy per ASTM B-16 Retaining Ring: BeCu Alloy per ASTM B-196 or ASTM B-197 Gasket: Silicone Rubber per A-A-59588 Insulator: PTFE Teflon per ASTM D-1710 or ASTM D-1457	Impedance: 50 Ohms Nominal Frequency Range: DC to 18.0 GHz VSWR: 1.05 + .005 x f(GHz) Insertion Loss: .03 x √f(GHz) dB 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: -(90 -fGHz) dB Contact Resistance: Initial: Center Contact: 3.0 Milliohms max Outer Contact: 2.0 Milliohms max After Environment: Center Contact: 4.0 Milliohms max Outer Contact: NA	Mating Characteristics: Interface per MIL-STD-348 Force to Engage & Disengage: Torque: 2 inch-lbs max Longitudinal Force: NA Connector Durability: 500 Cycles min. @ 12 cycles/minute max Permeability: Less than 2.0 mu. Coupling Proof Torque: 15 inch-pounds min. Coupling Mech. Retention: 60 pounds min.	Temperature Range: -65°C to +165°C Thermal Shock: MIL-STD-202, Method 107, Test Condition B, except high temperature shall be +115°C 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): Coupling Nut: (for BASIC): Gold plate per ASTM B-488, Typer II, Code C, Class 0.25; over Nickel plate per SAE AMS-QQ-N-290, Class 1. (for SF): Passivated per ASTM A-967 or SAE AMS 2700. Body & Center Conductor: Gold plate per ASTM B-488, Typer II, Code C, Class 0.25; Over Nickel plate per SAE AMS-QQ-N-290, Class 1.	APPLICABLE Amphenol CDI DOCUMENTS			TOLERANCES AND NOTES EXCEPT AS NOTED DIMENSIONS ARE IN INCHES LINEAR .XX ±.015 ANGULAR ±1/2° FRACTION .XXX ±.005 INTERPRET DRAWING PER ASME Y14.5 - 2018 1. MACHINE FINISH: √RMS 2. BREAK ALL SHARP EDGES .063 MAX. 3. MACHINED FILLETS .005 MAX. 4. MACHINED SURFACES SQUARE TO RESPECTIVE AXIS WITHIN .063 INCHES PER INCH. 5. MACHINED DIAMETERS CONCENTRIC WITHIN .001 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.			MATERIAL -		SPECIFICATION -		PROCUREMENT -	
	WORK STANDARD NA	PROD INSTRUC NA	ASSY INSTRUC AI-111	APPROVAL DRAWN BY P.MAO	INITIALS -	DATE 08.19.08	Amphenol CDI 12900 Alondra Blvd. Cerritos, CA 90703					
	NOTICE THIS DRAWING EMBODIES A CONFIDENTIAL PROPRIETARY DESIGN ORIGINATED BY Amphenol CDI & ALL DESIGN, MANUFACTURING, REPRODUCTION, USE & SALE RIGHTS REGARDING THE SAME ARE EXPRESSLY RESERVED. IT IS SUBMITTED UNDER A CONFIDENTIAL RELATIONSHIP FOR A SPECIFIED PURPOSE & THE RECIPIENT AGREES BY ACCEPTING THIS DRAWING NOT TO SUPPLY OR DISCLOSE ANY INFORMATION REGARDING IT TO ANY UNAUTHORIZED PERSON TO INCORPORATE IN OTHER PROJECTS ANY SPECIAL FEATURES PECULIAR TO THIS DESIGN. ALL PATENT RIGHTS HERETO ARE EXPRESSLY RESERVED BY Amphenol CDI, CERRITOS, CALIFORNIA 90703.			TEST ENGR -	TEST ENGR -	TEST ENGR -	TITLE SMA MALE STRAIGHT TO Ø .085 LOW LOSS CABLE					
	QUALITY -			DESIGN ENGR P.MAO	DATE 02.24.09	SCALE 10:1	SUB-DIRECTORY/ OUTLINE -	SHEET 1	OF 1	REV. AA		