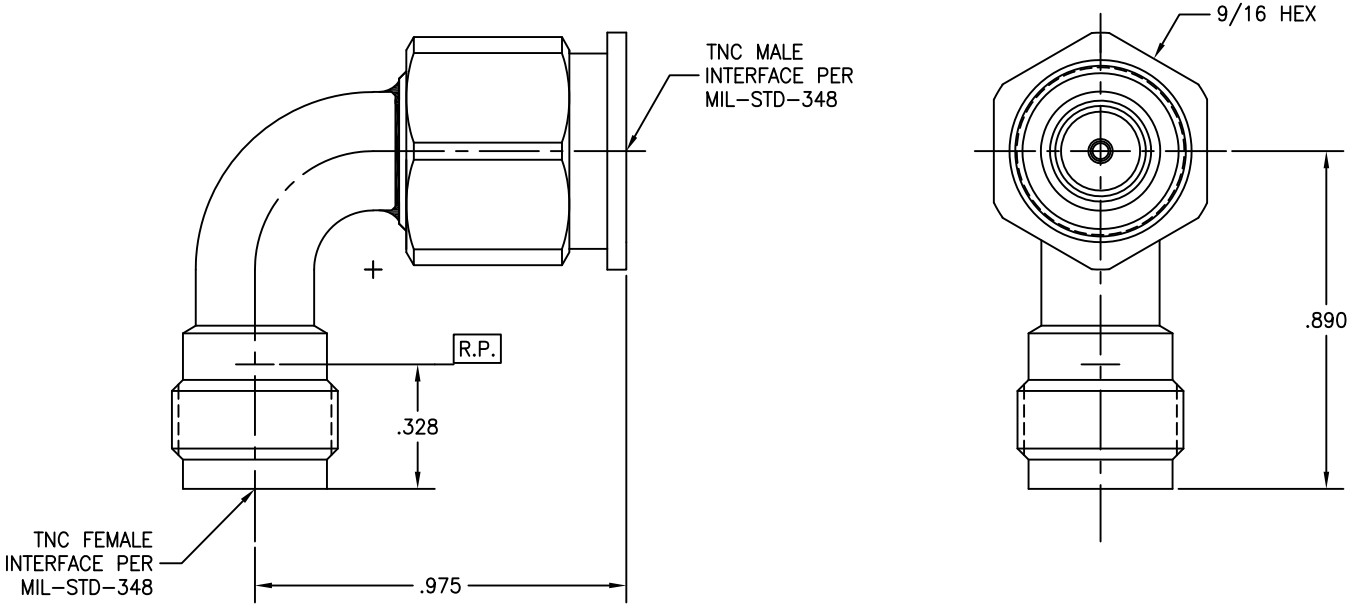
P/N
CC
CCSF

REVISIONS			
REV	DESCRIPTION	DATE	BY
D	ECO 20909	01.21.08	DKN
E	ECO 202420 (ADD NEW NAME)	12.16.24	DKN



MATERIAL:

R/A Body:
303 sst per ASTM A-743.
Coupling Nut, Male Body & Press Ring:
303 sst per ASTM A-582.
Center Conductor:
BeCu alloy per ASTM B-196.
Dielectric:
PTFE per ASTM D-1710.
Gasket:
Silicon Rubber per A-A-59588.

ELECTRICAL:

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18.0 GHz.
VSWR: 1.08 + .009 x f(GHz).
Insertion Loss: .25 dB max to 18GHz.
Working Voltage: 500 Vrms @ Sea Level
125 Vrms @ 70,000 ft
Dielectric Withstand Voltage: 1500 Vrms
RF HiPot Withstand Voltage: 1000 Vrms
Corona Level: 375 Vrms Min.
Insulation Resistance: 5000 MegaOhms
Contact Resistance:
Center Conductor: 3.0 mOhms MAX
Outer Conductor: 2.0 mOhms MAX
Permeability: Less than 2.0 MU
RF Leakage: -90 dB min from 2-3 GHz.

MECHANICAL:

Mating Characteristics:
Interface per Mil-Std-348.
Force To Engage & Disengage:
Torque: 2 inch-lbs max.
Center Contact Retention:
Axial Force: 6 pounds min.
Connector Durability:
500 cycles min.
Coupling Proof Torque:
15 Inch-Pounds min.
Coupling Nut Retention force:
100 lbs min axial force

ENVIRONMENTAL:

Temperature Range: -65°C to +165°C.
Moisture Resistance:
Mil-Std-202, Method 106, Insulation reistance at least 200 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.

FINISH:

Center Conductor:
Gold plate per ASTM B-488, Type II, Code C, Class 1.25;
Over nickel under plate per SAE-AMS-QQ-N-290, Class 1.
Coupling Nut, Bodies & Press Ring:
(For CCSF): Passivated per ASTM A-967.
(For CC): Gold plate per ASTM B-488, Type II, Code C, Class 0.25;
Over nickel under plate per SAE-AMS-QQ-N-290, Class 1.

APPLICABLE AMPHENOL CDI DOCUMENTS

WORK STD	PROD INST	ASSY INST
NA	NA	NA

NOTICE

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. IT IS SUBMITTED UNDER A CONFIDENTIAL RELATIONSHIP FOR A SPECIFIED PURPOSE AND THE RECIPIENT AGREES BY ACCEPTING THIS DRAWING NOT TO SUPPLY OR DISCLOSE ANY INFORMATION REGARDING IT TO ANY UNAUTHORIZED PERSON TO INCORPORATE INOTHER PROJECTS ANY SPECIAL FEATURE PECULIAR TO THIS DESIGN. ALL PATENT RIGHTS HERETO ARE EXPRESSLY RESERVED BY AMPHENOL CDI, CERRITOS, CA 90703

TOLERANCES AND NOTES EXCEPT AS NOTED

INTERPRET DRAWING PER ASME Y14.5-2018

DIMENSIONS ARE IN INCHES:
LINEAR .XX ±.015 .XXX ±.005 ANGULAR ± 1/2°
FRACTION ± 1/32

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 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

APPROVAL INITIALS		DATE
DRAWN BY	AGS	08.29.02
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	DNg.	01.22.08
MFG ENGG		
ECO APPRV	DNg.	12.16.24

Amphenol CDI
12900 Alondra Blvd.
Cerritos, CA 90703

TITLE: TNC MALE TO TNC FEMALE RADIUS R/A ADAPTER

SCALE 4:1 | DIRECTORY\SUB-DIRECTORY _OUTLINE\ | SHEET 1 OF 1

SIZE C | CAGE CODE 30990 | DRAWING NO. 9050 | REV. E

ENG-DWG REV. H