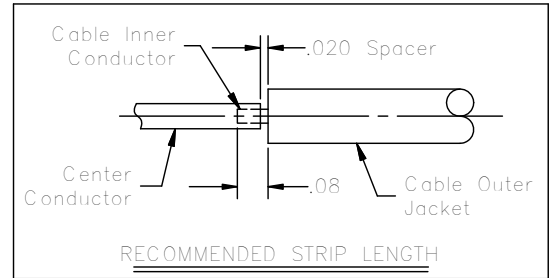
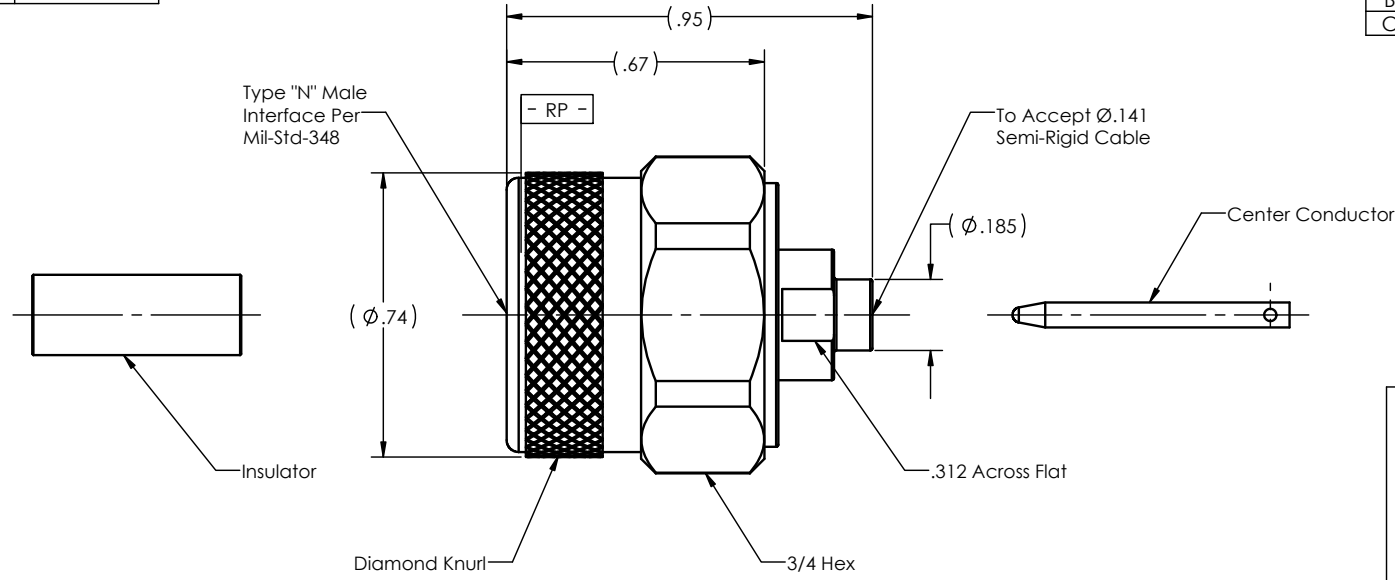


PART NO.	APPLICABLE NOTE(S)
-1SF	1,2

REVISIONS			
REV.	DESCRIPTION	DATE	BY
A	ECO 19857	01.05.07	P.MAO
B	ECO 32295 ADD NOTE 2	06.01.17	WM
C	ECO 202352 (ADD NEW NAME)	11.25.24	DKN



NOTE(S) :

1. Insulator and center conductor are packaged and shipped unassembled.
2. This Type N connector does not have a weather sealing gasket. Gasket P/N 5136810017 can be ordered separately.

MATERIAL(S) :

Body And Coupling Nut:
Brass alloy per ASTM B-16.

Center Conductor:
BeCu alloy per ASTM B-196.

Retaining Ring:
Phospor Bronze per ASTM B-139.

Insulator:
PTFE per ASTM D-1710.

ELECTRICAL(S) :

Impedance: 50 Ohms Nominal
Frequency Range: DC to 18.0 GHz
VSWR: $1.10 + .01 \times f(\text{GHz})$
Insertion Loss: $.05 \times \sqrt{f}(\text{GHz})$
Working Voltage: 1,000 Vrms max @ Sea Level
Dielectric Withstand Voltage: 2,500 Vrms min.
RF HiPot Voltage: 1,500 Vrms min. @ 5MHz
Corona Level: 500 Vrms @ 70,000 ft
Insulation Resistance: 5,000 MegOhms min.
RF Leakage: $-(90 - f(\text{GHz})) \text{ dB min.}$
Contact Resistance:
Initial:
Center Contact: 1.0 Milliohms max
Outer Contact: 2.0 Milliohms max
After Environment:
Center Contact: 1.5 Milliohms max
Outer Contact: N/A

MECHANICAL(S) :

Mating Characteristics:
Interface per MIL-STD-348
Force to Engage & Disengage:
Torque: 6 inch-pounds max
Longitudinal Force: NA
Connector Durability:
500 cycles min. @ 12 cycles/minute max
Permeability: Less than 2.0 mu.
Coupling Proof Torque: 30 inch-pounds min
Coupling Mech. Retention: 60 pounds min

ENVIRONMENTAL(S) :

Temperature Range: -65°C to +165°C
Thermal Shock:
MIL-STD-202, Method 107, Test Condition 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 B
Shock:
MIL-STD-202, Method 213, Test Condition I

FINISH(FS) :

Coupling Nut:
Nickel plate per AMS-QQ-N-290, Class 2; over Copper plate per Mil-C-14550, Class 4.

Center Conductor:
Gold plate per Mil-G-45204, Type 1, Grade C, Class 1; over Nickel plate per AMS-QQ-N-290, Class 1.

Body:
Silver plate per QQ-S-360, Type II, Grade A; over Copper plate per Mil-C-14550, Class 4

APPLICABLE Amphenol CDI DOCUMENTS		
WORK STANDARD	PROD INSTRUC	ASSY INSTRUC
NA	NA	NA
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 AND SPECIAL FEATURES PECULIAR TO THIS DESIGN. ALL PATENT RIGHTS HERETO ARE EXPRESSLY RESERVED BY Amphenol CDI, CERRITOS, CALIFORNIA 94009.		

TOLERANCES AND NOTES

EXCEPT AS NOTED DIMENSIONS ARE IN INCHES.

XX ±.015
LINEAR XXX ±.005 ANGULAR ± 1/2°
FRACTION ± 1/32

INTERPRET DRAWING PER ASME Y14.5 - 2018

1. MACHINE FINISH: \sqrt{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 TLR.
6. DIMENSIONS TO BE MET BEFORE PLATING.
7. CHAMFER ALL THREADS 45°.
8. THREADS PER H-28
9. REMOVE FRAVED EDGES ON TEFLON.
10. REMOVE ALL BURRS.

APPROVAL INITIALS		DATE
DRAWN BY	RKP	01.28.03
CHECKED BY	PMAO	01.05.07
TEST ENGR	-	-
DESIGN ENG	P.MAO	01.05.07
MFG. ENGR	-	-
ECO APPRV	DNg	11.25.24

MATERIAL	SPECIFICATION	PROCUREMENT
Amphenol 12900 Alondra Blvd. Cerritos, CA 90703		
TITLE TYPE "N" MALE (HEX NUT) STRAIGHT TO Ø .141 SEMI-RIGID CABLE		
SCALE	SUB-DIRECTORY/	
4:1	OUTLINE/	SHEET 1 OF 1
SIZE	CAGE CODE	DRAWING NO.
C	30990	8089
		REV. C