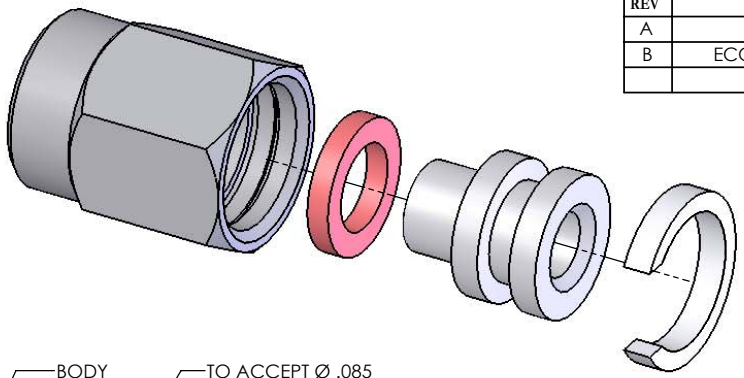
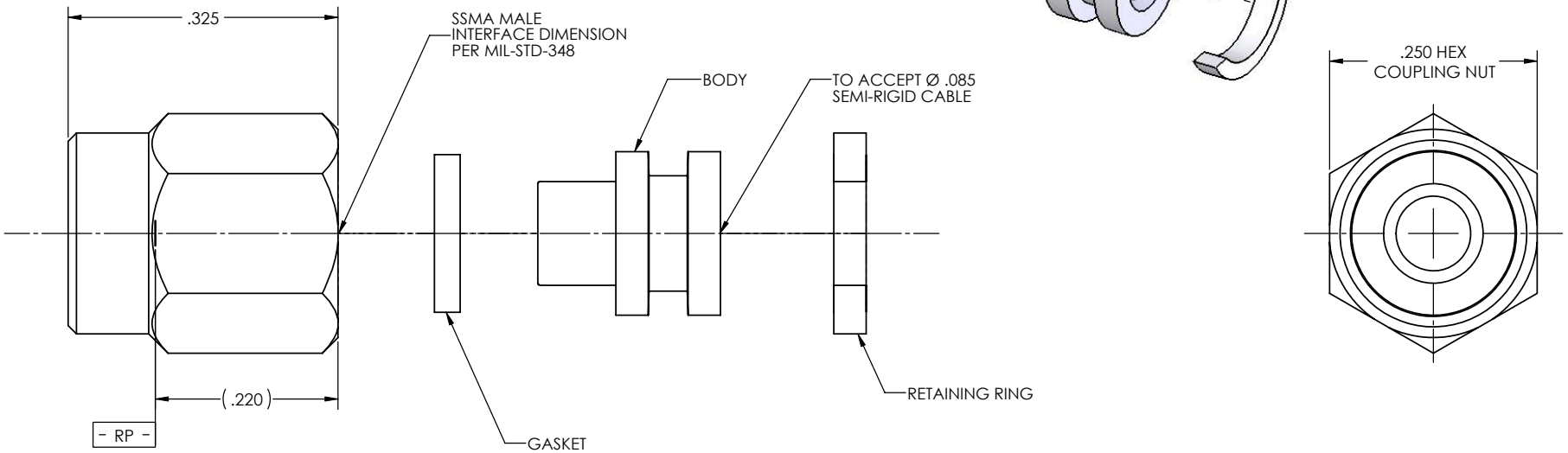
PART NO.
-1
-1SF

REVISIONS			
REV	DESCRIPTION	DATE	BY
A	ECO 14410	04.17.02	DKN
B	ECO 21880 (REDRAW IN SW)	01.06.09	YP





NOTE(S):

1. ALL ITEMS TO BE PACKAGED & SHIPPED UNASSEMBLED.

MATERIAL:

Body & Coupling Nut:
303 sst per ASTM A-582
Retaining Ring:
BeCu Alloy per ASTM B-196
Gasket:
Silicone Rubber per A-A 59588

ELECTRICAL:

Impedance: 50 Ohms Nom.
Freq. Range: DC TO 38 GHz
VSWR: 1.07 + .008*f (GHz)
Insertion Loss: .04 x $\sqrt{f}$ GHz dB max
Working Voltage: 335 Vrms max @ Sea Level
85 Vrms max @ 70,000 ft.
Dielectric Withstand Voltage: 750 Vrms min
RF HiPot Voltage: 500 Vrms min @ 5MHz
Corona Level: 190 Vrms @ 70,000 ft
Insulation Resistance: 5000 MegOhms min
RF Leakage: -90 dB @ 2~3 GHz
Contact Resistance:
Center Contact: 3.0 Milliohm max
Outer Contact: 2.0 Milliohm max

MECHANICAL:

Mating Characteristics:
Interface per Mil-Std-348
Connector Durability:
500 Cycles min @ 12 cycles/minute max
Center Contact Retention:
2 lbs Min Axial
N/A Radial
Force to Engage and Disengage:
Torque: 2 inch-pounds max
Longitudinal Force: NA
Coupling Proof Torque: 15 inch-pounds min
Coupling Mech Retention: 60 lbs min
Cable Retention Force: 30 lbs min

ENVIRONMENTAL:

Temp. Range: -65°C to +165°C
Thermal Shock:
MIL-STD-202, Method 107, Test Cond. B
Moisture Resistance:
MIL-STD-202, Method 106, except step 7b shall be omitted. Insulation resistance at least 1000 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:

Body:
Gold plate per ASTM B-488 Over Nickel plate per AMS-QQ-N-290
Coupling Nut:
(for SF) - Passivate per ASTM A-967, nitric 1
(for basic) - Gold plate per ASTM B-488 Over Nickel plate per AMS-QQ-N-290

APPLICABLE CARLISLE IT DOCUMENTS		
WORK STANDARD	PROD INSTRUC	ASSY INSTRUC
NA	NA	NA

NOTICE
THIS DRAWING EMBODIES A CONFIDENTIAL PROPRIETARY DESIGN ORIGINATED BY CARLISLE INTERCONNECT TECHNOLOGIES & 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 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 CARLISLE INTERCONNECT TECHNOLOGIES, LONG BEACH, CALIFORNIA 90815.

TOLERANCES AND NOTES
EXCEPT AS NOTED
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	SIZE	SPECIFICATION	PROCUREMENT

APPROVAL	INITIALS	DATE
DRAWN BY	YPHAN	01.06.09
CHECKED BY		
TEST ENGR		
QUALITY		
DESIGN ENGR	DNg	01.09.09
MFG. ENGR		

CARLISLE Interconnect Technologies
Long Beach, CA 90815

TITLE: SSMA MALE TO Ø .085
SEMI-RIGID CABLE (W/O CONTACT)

SCALE	SUB-DIRECTORY\FILE NAME	SHEET
8:1	OL/	1 OF 1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	3001	B

ENG-DWG REV. C