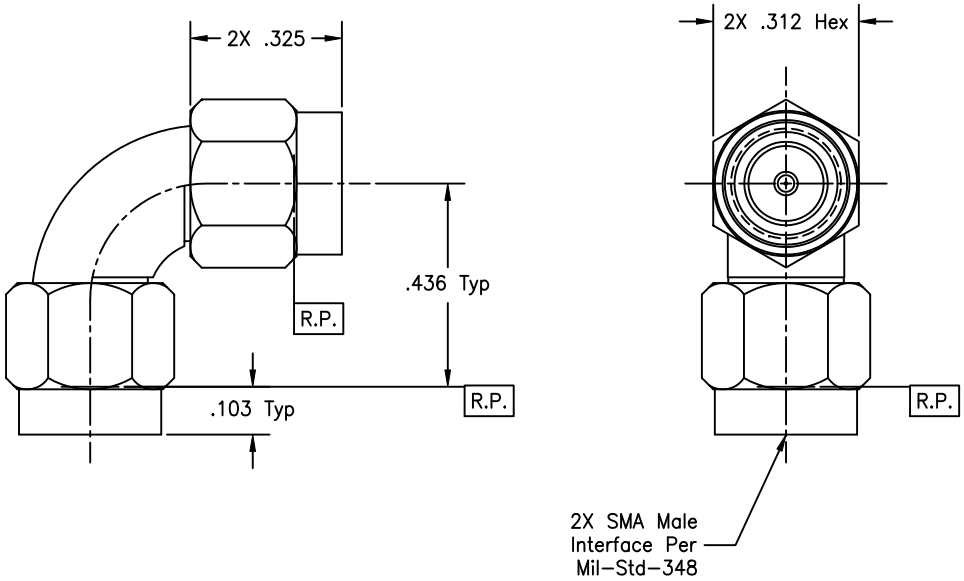
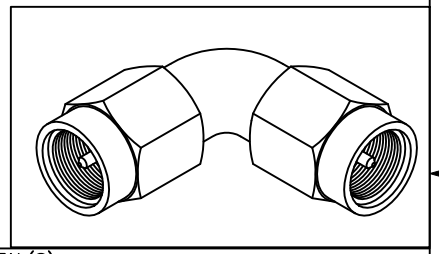
REVISIONS			
REV	DESCRIPTION	DATE	BY
–	Initial Released	04.29.13	DKN





MATERIAL(S):

Body:
304 sst per MIL–T–8504 or SAE–AMS–5567.
Coupling Nut:
303 sst per ASTM A–582.
Center Conductor:
BeCu alloy per ASTM B–196.
Retaining Ring:
BeCu alloy per ASTM B–197.
Dielectric:
PTFE per ASTM D–1710.
Gasket:
Silicone rubber per A–A–59588.

ELECTRICAL(S):

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18.0 GHz.
VSWR: 1.05 + .005 X f(GHz).
Insertion Loss: .08 $\sqrt{f(GHz)}$.
Working Voltage: 335 Vrms max @ sea level.
Dielectric Withstanding Voltage: 1,000 Vrms min.
R.F. HiPot Voltage: 670 Vrms min @ 5MHz.
Corona Level: 250 Vrms @ 70,000 ft.
Insulation Resistance: 5,000 MegOhms min.
R.F. Leakage: –(90 – fGHz) dB.
Contact Resistance:
Before Environmental:
Center Contact: 3.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.
After Environmental:
Center Contact: 4.0 Milliohm max.
Outer Contact: NA.

MECHANICAL(S):

Mating Characteristics:
Interface per Mil–Std–348.
Force To Engage & Disengage:
Torque: 2 inch–pounds max.
Longitudinal Force: NA.
Center Contact Retention:
Captivation: NA.
Connector Durability:
500 cycles min @ 12 cycles/minute max.
Permeability: Less than 2.0 mu.
Coupling Mechanism Retention Force:
60 pounds minimum
Coupling Proof Torque:
15 inch–pounds minimum.

ENVIRONMENTAL(S):

Temperature Range: –65°C to +165°C.
Thermal Shock:
Mil–Std–202, Method 107, Test Cond. A.
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 Cond. B.
Vibration:
Mil–Std–202, Method 204, Test Cond. D.
Shock:
Mil–Std–202, Method 213, Test Cond. I.

FINISH(ES):

Body & Coupling Nut:
Passivated per ASTM A–967, Nitric 1.

Center Conductor:
Gold plate per ASTM B–488, Type II, Code C or D, Class 1.25, over nickel under plated per SAE–AMS–QQ–N–290, Class 1, .000050 inch thick min.

APPLICABLE CARLISLE IT DOCUMENTS

WORK STD	PROD INST	ASSY INST
NA	NA	NA

NOTICE

THIS DRAWING EMBODIES A CONFIDENTIAL PROPRIETARY DESIGN ORIGINATED BY CARLISLE INTERCONNECT TECHNOLOGIES AND ALL DESIGN, MANUFACTURING, REPRODUCTION, 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 CARLISLE INTERCONNECT TECHNOLOGIES, CERRITOS, CA 90703

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			SPECIFICATION	PROCUREMENT
–			–	–

APPROVAL	INITIALS	DATE
DRAWN BY	DKN	04.29.13
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	DKN	04.29.13
MFG ENGG		
ECO APPRV		

CARLISLE Interconnect Technologies
Cerritos, CA 90703

TITLE: SMA MALE TO SMA MALE SWEPT RIGHT ANGLE, ADAPTER

SCALE	SUB–DIRECTORY	SHEET	OF
5:1	_OUTLINE\OL_\	1	1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	5065–0–1SF	–

ENG–DWG REV. E