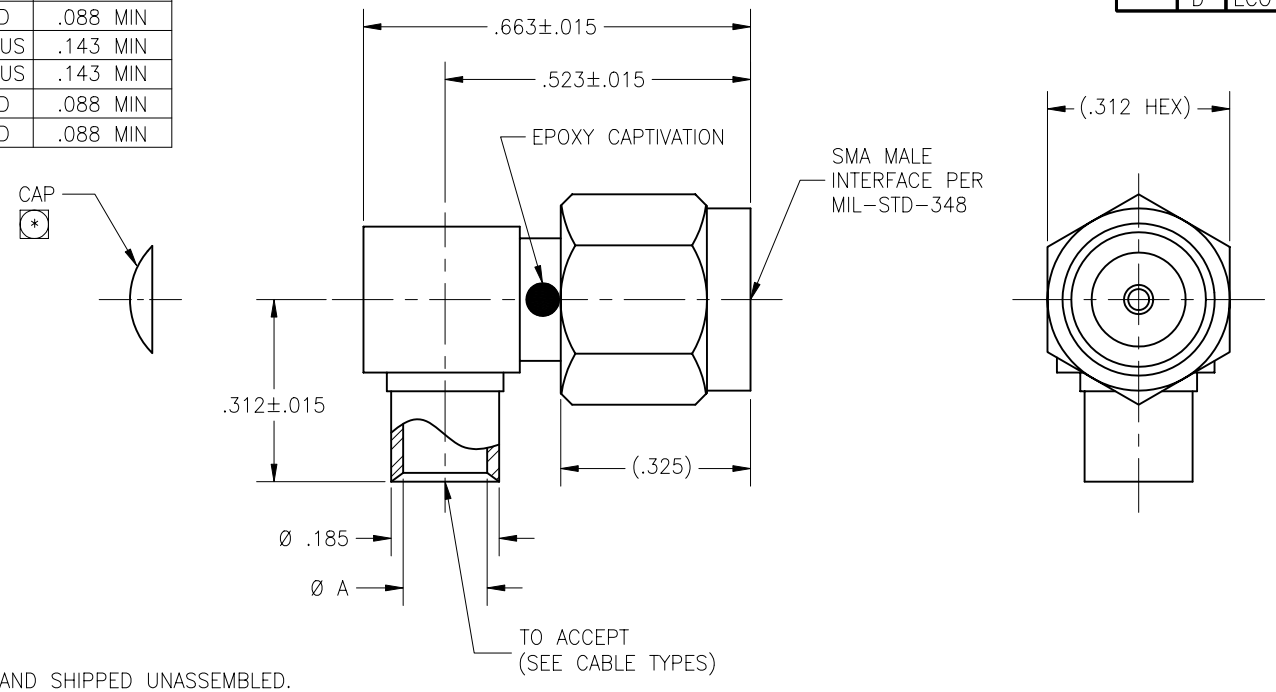
P/N	CABLE TYPE(S)	Ø A
−1CC	.141 SEMI−RIGID	.143 MIN
−1CCSF	.141 SEMI−RIGID	.143 MIN
−2CC	.088 SEMI−RIGID	.088 MIN
−2CCSF	.088 SEMI−RIGID	.088 MIN
−3CC	.141 MICROPOROUS	.143 MIN
−3CCSF	.141 MICROPOROUS	.143 MIN
−4CC	.088 SEMI−RIGID	.088 MIN
−4CCSF	.088 SEMI−RIGID	.088 MIN

REVISIONS

ZONE	REV	DESCRIPTION	DATE	BY
−	B	ECO 19602	09.22.06	DKN
−	C	ECO 19747	11.10.06	SLM
−	D	ECO 21748	11.12.08	DKN



(*) CAP TO BE PACKAGED AND SHIPPED UNASSEMBLED.

MATERIAL(S):

Body and Coupling Nut:
303 sst per ASTM A−582.
Center Conductor and Cap:
Brass alloy per ASTM B−16.
Retaining Ring:
BeCu alloy per ASTM B−196
Dielectric:
PTFE per ASTM D−1710.
Gasket:
Silicone Rubber per A−A−59588.
Epoxy:
Sigma VF Type HV

ELECTRICAL(S):

Impedance: 50 Ohms nominal.
Frequency Range: DC to 12.0 GHz.
VSWR: 1.018 + .018 x f (GHz).
Working Voltage: 600 Vrms max @ sea level.
150 Vrms max @ 70,000 ft.
Dielectric Withstanding Voltage: 1000 Vrms min.
R.F. HiPot Voltage: 670 Vrms min @ 5MHz.
Corona Level: 250 Vrms @ 70,000 ft.
Insulation Resistance: 5000 MegOhms min.
R.F. Leakage: −60 dB min from 2−3GHz.
Contact Resistance:
Initial:
Center Contact: 2.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.
After Environment:
Center Contact: 3.0 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:
Axial Force: 6 pounds min.
Connector Durability:
500 cycles min @ 12 cycles/minute max.
Permeability: Less than 2.0 mu.
Center Contact Captivation:
Axial Force: 6 pounds min.
Radial Torque: 4 inch−ounces min.
Coupling Proof Torque: 15 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 Cond. B.
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):

Coupling Nut:
for CCSF's: Passivate per ASTM A−967.
for CC's: Gold plate per ASTM B−488, over nickel under plate per AMS−QQ−N−290.
Body, Cap & Center Conductor:
Gold plate per ASTM B−488, over nickel under plate per AMS−QQ−N−290.

APPLICABLE CARLISLE IT DOCUMENTS

WORK STD	PROD INST	ASSY INST
NA	NA	NA

NOTICE

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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	ATV	06.29.00
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	DNG	11.12.08
MFG ENGG		

CARLISLE Interconnect Technologies
Long Beach, CA 90815

TITLE SMA MALE MITER RIGHT ANGLE TO SEMI−RIGID CABLES

SCALE 6/1 | SUB−DIRECTORY\FILENAME OL_ | SHEET 1 OF 1

SIZE C | CAGE CODE 30990 | DRAWING NO. 5850 | REV. D

ENG−DWG REV. C