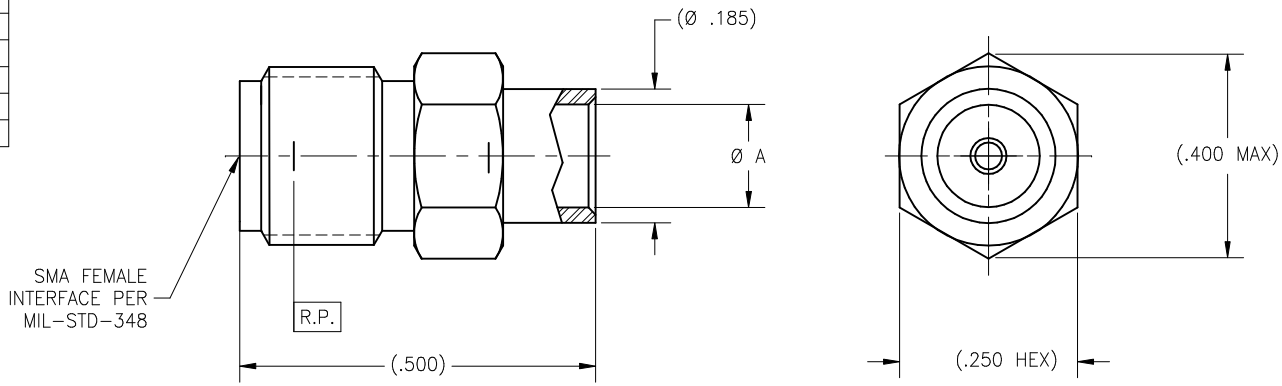
P/N	CABLE TYPE	(Ø A)
−1	Ø .141 SEMI−RIGID	.143 MIN.
−1SF	Ø .141 SEMI−RIGID	.143 MIN.
−1NP	Ø .141 SEMI−RIGID	.143 MIN.
−2	Ø .085 SEMI−RIGID	.088 MIN.
−2SF	Ø .085 SEMI−RIGID	.088 MIN.
−2NP	Ø .085 SEMI−RIGID	.088 MIN.
−3	Ø .141 MICROPOROUS	.143 MIN.
−3SF	Ø .141 MICROPOROUS	.143 MIN.
−3NP	Ø .141 MICROPOROUS	.143 MIN.
−4	Ø .085 MICROPOROUS	.088 MIN.
−4SF	Ø .085 MICROPOROUS	.088 MIN.
−4NP	Ø .085 MICROPOROUS	.088 MIN.

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	BY
−	A	ECO 19233	04.18.06	DKN
	B	ECO 23436 (Add −4)	08.11.10	K.NG



* ALL ITEMS TO BE PACKAGED AND SHIPPED UNASSEMBLED.

MATERIAL:

Body:
303 sst per ASTM A−582.
Center Conductor:
BeCu alloy per ASTM B−196.
Dielectric:
PTFE per ASTM D−1710.

ELECTRICAL:

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18.0 GHz.
VSWR: 1.05 + .008*f(GHz).
Insertion Loss: .05 $\sqrt{f}$(GHz).
Working Voltage: 500 Vrms max @ sea level.
Dielectric Withstanding Voltage: 1500 Vrms min.
R.F. HiPot Voltage: 1000 Vrms min @ 5MHz.
Corona Level: 375 Vrms @ 70,000 ft.
Insulation Resistance: 5000 MegOhms min.
R.F. Leakage: −(90 − fGHz) dB
Contact Resistance:
Center Contact: 3.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.

MECHANICAL:

Mating Characteristics:
Interface per Mil−Std−348.
Force To Engage & Disengage:
Torque: 2 inch−lbs max.
Connector Durability:
500 cycles min @ 12 cycles/minute max.
Permeability: Less than 2.0 mu.

ENVIRONMENTAL:

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:

Center Conductor:
Gold plate per ASTM B−488, over nickel under plate per AMS−QQ−N−290.
Body:
For (basic): Gold plate per ASTM B−488, over nickel under plate per AMS−QQ−N−290.
For (SF's): Passivate per ASTM A−967.
For (NP's): Nickel 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	IMG	03.13.02
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	H.T.	09.06.11
MFG ENGG		

CARLISLE Interconnect Technologies
Long Beach, CA 90815

TITLE: SMA FEMALE STRAIGHT TO SEMI−RIGID CABLE

SCALE: 8:1 | SUB−DIRECTORY\FILENAME: OL_\ | SHEET 1 OF 1

SIZE: C | CAGE CODE: 30990 | DRAWING NO.: 5286 | REV.: B

ENG−DWG REV. C