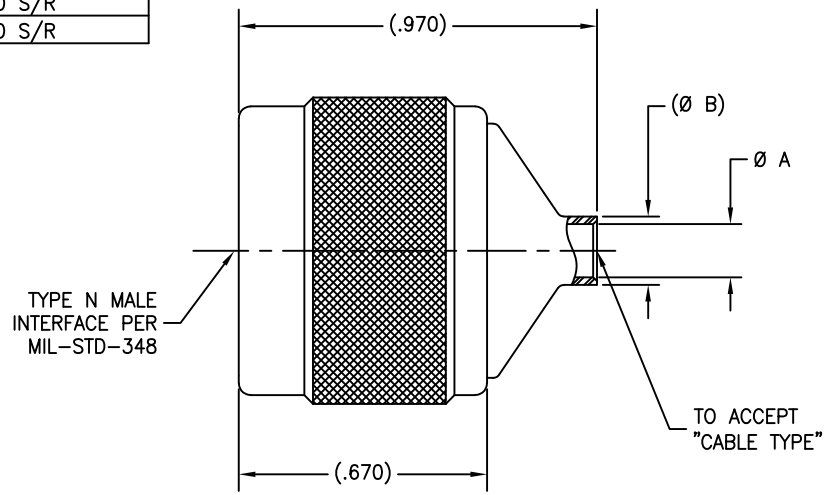
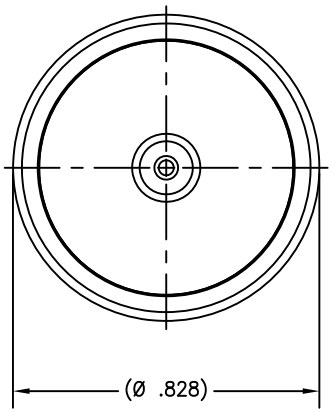
P/N	APPLICABLE NOTE(S)	Ø A	(Ø B)	CABLE TYPE
−1	1,2	.143 MIN	.185	Ø .141 S/R
−1SF	1,2	.143 MIN	.185	Ø .141 S/R
−2	1,2	.088 MIN	.185	Ø .085 S/R
−2SF	1,2	.088 MIN	.185	Ø .085 S/R
−3	1,2	.143 MIN	.185	Ø .141 MICROPOROUS
−3SF	1,2	.143 MIN	.185	Ø .141 MICROPOROUS
−4	1,2,3	.253 MIN	.340	Ø .250 S/R
−4SF	1,2,3	.253 MIN	.340	Ø .250 S/R

REVISIONS			
REV	DESCRIPTION	DATE	BY
D	ECO 14512	05.09.02	DKN
E	ECO 24282	03.15.11	DKN
F	ECO 33664	05.03.18	DT





MATERIAL(S):

Body & Coupling Nut:
303 sst per ASTM A−582.
Center Conductor & Retaining Ring:
BeCu alloy per ASTM B−196.
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: 1.10 + .010 (fGHz).
Insertion Loss: $.047\sqrt{f(GHz)}$.
Working Voltage: 335 Vrms max @ sea level.
Dielectric Withstanding Voltage: 2500 Vrms min.
R.F. HiPot Voltage: 1500 Vrms min @ 5MHz.
Corona Level: 375 Vrms @ 70,000 ft.
Insulation Resistance: 5000 MegOhms min.
R.F. Leakage: −(90 − fGHz).
Contact Resistance:
Initial:
Center Contact: 1.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.

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 Nut Retention:
100 lbs min.
Coupling Proof Torque:
30 in−lbs min.

ENVIRONMENTAL(S):

Temperature Range: −65°C to +125°C.
Thermal Shock:
Mil−Std−202, Method 107, Test Cond. B, except +115°C high temp.
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 SF's): Passivate per ASTM A−967.
(for Basic's): Gold plate per ASTM B−488, over nickel under plate per AMS−QQ−N−290.
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

THIS DRAWING EMBODIES A CONFIDENTIAL PROPRIETARY DESIGN ORIGINATED BY CARLISLE INTERCONNECT TECHNOLOGIES AND ALL DESIGN, MANUFACTURING, RE-PRODUCTION, USE AND SALE RIGHTS REGARDING THE SAME ARE EXPRESSLY RESERVED. IT IS SUBMITTED UNDER A CONFIDENTIAL RELATIONSHIP FOR A SPE-CIFIED PURPOSE AND THE RECIPIENT AGREES BY ACCEPTING THIS DRAWING NOT TO SUPPLY OR DISCLOSE ANY INFORMATION REGARDING IT TO ANY UN-AUTHORIZED PERSON TO INCORPORATE INOTHER PROJECTS ANY SPECIAL FEA-TURE 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	BRD	04.29.96
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	PCV	03.17.11
MFG ENGG	KM	05.16.18
ECO APPRV	DNg	05.16.18

CARLISLE Interconnect Technologies
Cerritos, CA 90703

TITLE: TYPE N MALE STRAIGHT TO SEMI−RIGID CABLE

SCALE 4/1 | DIRECTORY\SUB−DIRECTORY 0L_ | SHEET 1 OF 1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	8009	F

ENG−DWG REV. E