

PART NUMBER		ITEM ① SMA STR SOLDER PLUG		ITEM ② CABLE															DRAWING NO. B-415-0082-001/999	
415-0082-001/999		BODY - BRASS GOLD PL .00001 MIN OVER NICKEL PL OVER COPPER PL COUPLING NUT - BRASS GOLD PL .00001 MIN OVER NICKEL PL OVER COPPER PL CONTACT - BRASS GOLD PL .00005 MIN OVER NICKEL PL OVER COPPER PL INSULATOR - TEFLON C-SPRING - BERYLLIUM COPPER UNPLATED		.141 CONFORMABLE SHIELD - TIN FILLED COPPER BRAID OVER COPPER FOIL DIELECTRIC- TEFLON CENTER CONDUCTOR - STEEL SILVER PLATED OVER COPPER PLATING															0 REVISIONS	
														ENGINEERING RELEASE						
1		9-16-05		RJB		JC		JH		Z				11-3-05 ECN 49890						
														VERSION UPDATE						
2		12-9-05		PAT		RJB		JH		Z		JC		12-21-05 ECN 50039						
														ADD CUSTOMER DRAWING						
3		7-12-06		PAT		TAK		MJU						8-15-06 ECN 50534						
														ADDED: 415-0082-036, 415-0082-048						
														***** * REVISION NUMBER FOLLOWED BY AN ALPHA * * CHARACTER INDICATES DRAWING CLARIFI- * * CATION OR PART NUMBER ADDITION ONLY. * *****						
3a		3-14-08		PAT		RJB		MJU		RB		JC		3-17-08 ECN 51415						
														VERSION UPDATE						
														***** * REVISION NUMBER FOLLOWED BY AN ALPHA * * CHARACTER INDICATES DRAWING CLARIFI- * * CATION OR PART NUMBER ADDITION ONLY. * *****						
3b		10-17-08		PAT		RJB		MJU		RB		JC		10-20-08 ECN 51690						
														CUSTOMER DRAWING						
														THIS DRAWING TO BE INTERPRETED PER ASME Y 14.5M - 1994						
														"μSTATION"						
														COMPANY CONFIDENTIAL						

PART NUMBER		"LENGTH"	NOMINAL ELECTRICAL DELAY (nS)	INSERTION LOSS (MAX dB) Vs. FREQUENCY (GHz)					VSWR (MAX) Vs. FREQUENCY f (GHz)			
				0 TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	0 TO 1	1 TO 2	2 TO 18
415-0082-003		3.00±.05	0.36	0.09	0.13	0.19	0.24	0.34	0.43	1.06	1.10	1.1+.01f
415-0082-004		4.00±.05	0.49	0.10	0.15	0.22	0.27	0.39	0.49			
415-0082-005		5.00±.10	0.61	0.12	0.17	0.24	0.30	0.44	0.56			
415-0082-006		6.00±.10	0.73	0.13	0.18	0.27	0.34	0.49	0.62			
415-0082-007		7.00±.10	0.85	0.14	0.20	0.30	0.37	0.54	0.69			
415-0082-008		8.00±.10	0.97	0.15	0.22	0.32	0.40	0.59	0.75			
415-0082-012		12.00±.15	1.46	0.20	0.29	0.43	0.54	0.79	1.01			
415-0082-018		18.00±.15	2.19	0.27	0.39	0.59	0.74	1.09	1.40			
415-0082-024		24.00±.15	2.92	0.35	0.50	0.75	0.94	1.39	1.79			
415-0082-036		36.00±.20	4.38	0.49	0.71	1.07	1.34	1.99	2.57			
415-0082-048		48.00±.25	5.84	0.64	0.92	1.39	1.74	2.59	3.35			

REF PLANE

1

2

1

"LENGTH"

REF PLANE

NOTES:

1. SPECIFICATIONS:

FREQUENCY: 0-18 GHz
VSWR: (SEE P/N BLOCK)
INSERTION LOSS: (SEE P/N BLOCK)
DIELECTRIC WITHSTANDING VOLTAGE: 1500 VRMS
WORKING VOLTAGE: 500 VRMS

TOLERANCE UNLESS OTHERWISE SPECIFIED		DRAWN BY RJB		DATE 8-17-05	
DECIMALS .XX		CHECKED BY JCN		DATE 9-26-05	
.XXX		APPROVED BY JHZ		DATE 9-27-05	
MATL		RELEASE DATE		11-3-05	
FINISH		U/M		INCH	
		SCALE		2:1	

cinch

CONNECTIVITY SOLUTIONS

a bel group

Cinch Connectivity Solutions
P.O. Box 1732
Waseca, MN 56093
1-800-247-8256

TITLE
CABLE ASSEMBLY, STR SMA
PLUG TO STR SMA PLUG,
.141 CONFORMABLE

SHEET
2 OF 2

DRAWING NO.
B-415-0082-001/999