DRAWING NO. ITEM 4 ITEM (6) ITEM (7) CONTACT CRIMP SLEEVE -142-1407-001/010PART NUMBER BODY SLIDER INSULATOR RETENTION SPRINGS COUPLING NUT BERYLLIUM COPPER TEFLON BERYLLIUM COPPER BERYLLIUM COPPER COPPER BRASS BRASS REVISIONS 142-1407-001 GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN NICKEL PL .0001 MIN OVER GOLD PL .00001 MIN OVER NICKEL PL .0001 MIN OVER UNPLATED NICKEL PL .0001 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN COPPER PL .00005 MIN COPPER PL .00005 MIN COPPER PL .00005 MIN ENGINEERING RELEASE 1 03-02-04 UPDATE SLEEVE 1.099 WAS 1.249 CAUTION: INSTRUCTIONS FOR USE: * REVISION NUMBER FOLLOWED BY AN ALPHA * CHARACTER INDICATES DRAWING CLARIFL * CATION OR PART NUMBER ADDITION ONLY. * 1. THIS SMA PLUG CONNECTOR IS DESIGNED FOR HIGH 1. WITH SLIDER AT THE ENGAGED POSITION, THE CONNECTOR FUNCTIONS LIKE A STANDARD SMA CONNECTOR DURABILITY AND LONG LIFE IN TEST APPLICATIONS. TIGHTEN (SPIN) THE KNURLED COUPLING NUT BY HAND TO OBTAIN FULL MATING ENGAGEMENT OR DISENGAGEMENT. 1a 1-13-05 HOWEVER, IT IS DESIGNED FOR LIMITED MATINGS WITH A SINGLE JACK RECEPTACLE.
AN SMA JACK RECEPTACLE MAY EXPERIENCE 2. QUICK CONNECT: A. WITH SLIDER AT THE DISENGAGED POSITION, SLIDE THE CABLED CONNECTOR ONTO AN SMA JACK RECEPTACLE, OVER THE JACK THREADS BY PUSHING ON THE BACK OF THE KNURLED NUT. THREAD PLATING WEAR AFTER MANY B. ENGAGE THE SLIDER WHILE MAINTAINING LIGHT FORWARD PRESSURE ON THE NUT. THIS ACTION IS DONE BY SLIPPING YOUR FINGERS FROM THE NUT TO THE SLIDER IN ONE MOTION. ENGAGEMENTS.

- 1.099 ±.020 (6) $\emptyset.515 \pm .010$ -SLIDER DISENGAGED SLIDER ENGAGED ---COUPLING NUT (AS SHOWN) SLIDER (TURN TO TIGHTEN)

NOTES:

1. SPECIFICATIONS:

IMPEDANCE: 50 OHMS FREQUENCY RANGE: 0-12.4 GHz VSWR: 1.15+.01 F MAX (F IN GHz) WORKING VOLTAGE: 335 VRMS MAX AT SEA LEVEL DIELECTRIC WITHSTANDING VOLTAGE: 1000 VRMS MIN AT SEA LEVEL INSULATION RESISTANCE: 5000 MEGOHM MIN CONTACT RESISTANCE: CENTER CONTACT - INITIAL 3.0 MILLIOHM MAX, AFTER OUTER CONDUCTOR - INITIAL 2.0 MILLIONIM MAX OUTER CONDUCTOR - INITIAL 2.0 MILLIONIM MAX AFTER ENVIRONMENTAL NOT APPLICABLE BODY TO CABLE - 0.5 MILLIOHM MAX (GOLD PLATED) 5.0 MILLIOHM MAX (NICKEL PLATED) CORONA LEVEL: 250 VOLTS MIN AT 70,000 FEET INSERTION LOSS: .06 VF MAX (F IN GHz) AT 6 GHz RF LEAKAGE: -60 DB MIN AT 2.5 GHz

RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 670 VRMS MIN AT 4 AND 7 MHz

C. ONCE THE SLIDER IS ENGAGED THE KNURLED NUT CAN BE TURNED 1 TURN OR LESS TO OBTAIN FULL ENGAGEMENT SMA PERFORMANCE.

D. DISENGAGE THE CONNECTOR BY FIRST

AND REMOVE THE CONNECTOR.

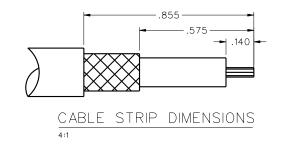
LOOSENING THE KNURLED NUT A PARTIAL TURN. THEN DISENGAGE THE SLIDER

MECHANICAL:

ENGAGE/DISENGAGE TORQUE: 2 INCH-POUNDS MAX MATING TORQUE: 7-10 INCH POUNDS COUPLING PROOF TORQUE: 15 INCH-POUNDS MIN COUPLING NUT RETENTION: 60 LBS MIN CONTACT RETENTION: 6 LBS MIN AXIAL FORCE CABLE ACCEPTABILITY: RG 58/U, RG 141/U RG 303/U, CABLE HEX CRIMP SIZE: .213 CABLE RETENTION: 40 LBS MIN AXIAL FORCE DURABILITY: 500 CYCLES MIN

ENVIRONMENTAL:

(MEETS OR EXCEEDS THE APPLICABLE PARAGRAPH OF MIL-C-39012) THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B, EXCEPT 85° C HIGH TEMP OPERATING TEMPERATURE: -65° C TO 165° C CORROSION: MIL-STD-202, METHOD 101, CONDITION B SHOCK: MIL-STD-202, METHOD 213, CONDITION D VIBRATION: MIL-STD-202, METHOD 204, CONDITION D MOISTURE RESISTANCE: MIL-STD-202, METHOD 106



CUSTOMER DRAWING

12-8-04 ECN 49578

THIS DRAWING TO BE INTERPRETED PER ANSI Y 14.5M - 1982 "μSTATION"

COMPANY CONFIDENTIAL

TOLERANCE UNLESS OTHERWISE SPECIFIED		DRAWN BY	DATE 9-18-02	OHNSON® Cinch Connectivity Solutions 299 Johnson Ave. Ste. 100 Wassea. MM 56093			
DECIMALS		I.A.NOII	9-10-02	a cinch connect	vity solutions brand	1-800-247-8256	
.XX —		CHECKED BY	DATE	TITLE STRAIGHT CABLED PLUG			
.xxx		1000001150 011	0.175	- QUICK	CONNECT	COUPLING	
		APPROVED BY	DATE	SMA, RG 58, CRIMP TYPE			
MATL							
		APPROVED BY	DATE	CODE NO.	DRAWING NO.		
FINISH		T.A.Kari	3-02-04		\bigcirc - 142-1407-001/010		
		RELEASE DATE		1 142 1407 0017010			
		THE CONTROL OF THE	3-02-04	SCALE 8:1	U/M INCH	SHEET 2 OF 2	