

PART NUMBER	ITEM ① BODY	ITEM ② CONTACT	ITEM ③ INSULATOR	ITEM ④ HEX NUT	ITEM ⑤ CRIMP SLEEVE	ITEM ⑥ RETENTION SPRING	ITEM ⑦ END CAP
142-9407-101	COPPER ALLOY GOLD PL .00005 MIN OVER COPPER PL .00005 MIN	COPPER ALLOY GOLD PL .00005 MIN OVER COPPER PL .00005 MIN	TEFLON	COPPER ALLOY GOLD PL .00005 MIN OVER COPPER PL .00005 MIN	COPPER ALLOY GOLD PL .00005 MIN OVER COPPER PL .00005 MIN	BERYLLIUM COPPER UNPLATED	COPPER ALLOY GOLD PL .00005 MIN OVER COPPER PL .00005 MIN
142-9407-104	COPPER ALLOY SILVER PL .00005 MIN OVER COPPER PL .00005 MIN	COPPER ALLOY SILVER PL .00005 MIN OVER COPPER PL .00005 MIN	TEFLON	COPPER ALLOY SILVER PL .00005 MIN OVER COPPER PL .00005 MIN	COPPER ALLOY SILVER PL .00005 MIN OVER COPPER PL .00005 MIN	BERYLLIUM COPPER UNPLATED	COPPER ALLOY SILVER PL .00005 MIN OVER COPPER PL .00005 MIN

DRAWING NO.
C - 142-9407-101/110

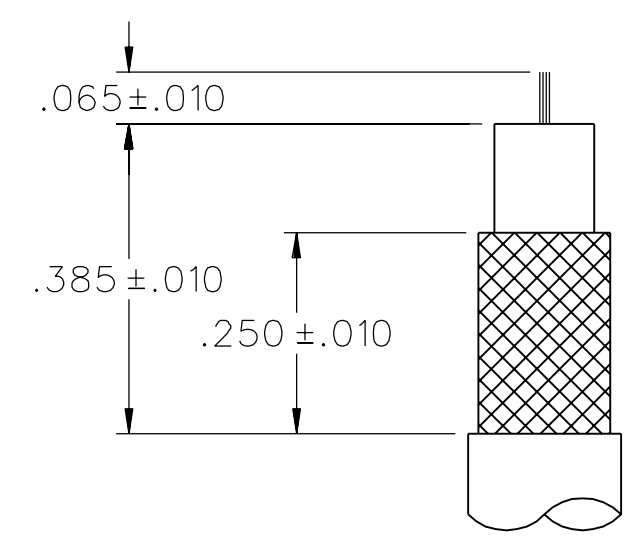
REVISIONS	
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ENGINEERING RELEASE

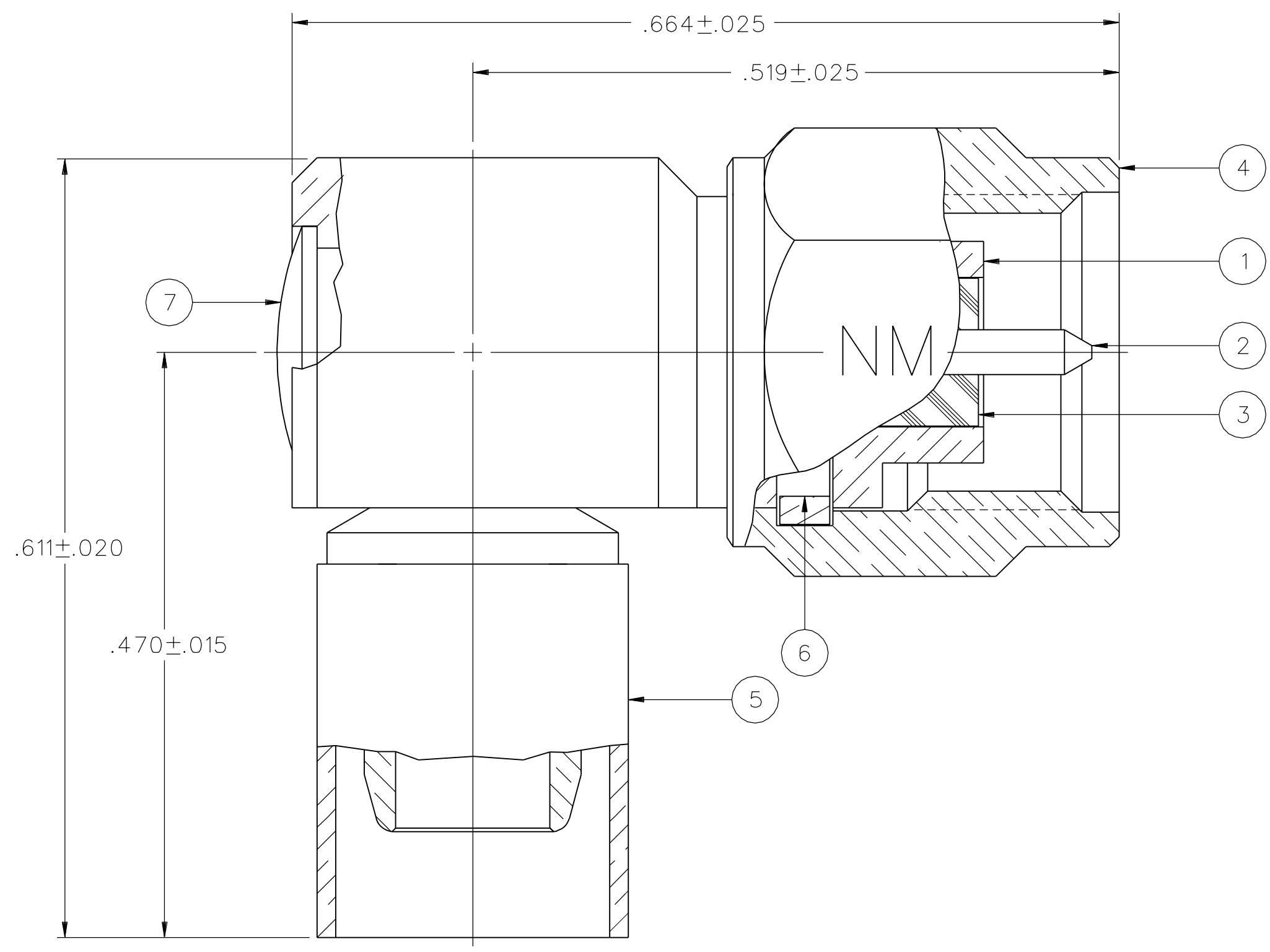
1	6-17-03	RH	TAK	RJB	ECN 48842
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COPPER ALLOY WAS COPPER, END CAP COPPER ALLOY WAS BRASS, VERSION UPDATE

2	2-21-07	ATS	TKU	MJU	6-8-07 ECN 34
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CABLE STRIP DIMENSIONS
4:1



NOTES:

- SPECIFICATIONS:
 - IMPEDANCE: 50 OHMS
 - FREQUENCY RANGE: 0-12.4 GHZ
 - VSWR: 1.15+.02F 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 4.0 MILLIOHM MAX, AFTER ENVIRONMENTAL 6.0 MILLIOHM MAX
 - OUTER CONDUCTOR - INITIAL 2.0 MILLIOHM MAX AFTER ENVIRONMENTAL NOT APPLICABLE
 - BODY TO CABLE - 0.5 MILLIOHM MAX
 - CORONA LEVEL: 250 VOLTS MIN AT 70,000 FEET
 - INSERTION LOSS: .15 √ F (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

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
- CABLE ACCEPTABILITY: RG 58, RG 141, RG 303
- 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-PRF-39012)
- THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B, EXCEPT +85 DEG C HIGH TEMP
- OPERATING TEMPERATURE: -65 DEG C TO 165 DEG C
- CORROSION: MIL-STD-202, METHOD 101, CONDITION B
- SHOCK: MIL-STD-202, METHOD 213, CONDITION I
- VIBRATION: MIL-STD-202, METHOD 204, CONDITION D
- MOISTURE RESISTANCE: MIL-STD-202, METHOD 106


- CONNECTOR MARKED "NM" FOR NON-MAGNETIC.

CUSTOMER DRAWING

THIS DRAWING TO BE INTERPRETED PER ASME Y 14.5M - 1994

"μSTATION"

COMPANY CONFIDENTIAL

TOLERANCE UNLESS OTHERWISE SPECIFIED	DRAWN BY RSH	DATE 1-6-03	 Cinch CONNECTIVITY SOLUTIONS a bel group	Cinch Connectivity Solutions P.O. Box 1732 Waseca, MN 56093 1-800-247-8256
DECIMALS _____ mm _____	CHECKED BY TAK	DATE 7-25-03		TITLE PLUG ASSEMBLY, RA CABLED NON-MAGNETIC SMA, RG 58
.XX _____	APPROVED BY RJB	DATE 7-28-03	SHEET 2 OF 2	DRAWING NO. C - 142-9407-101/110
.XXX _____	RELEASE DATE 7-28-03	SCALE 10:1		
MATL _____	U/M INCH			
FINISH _____				