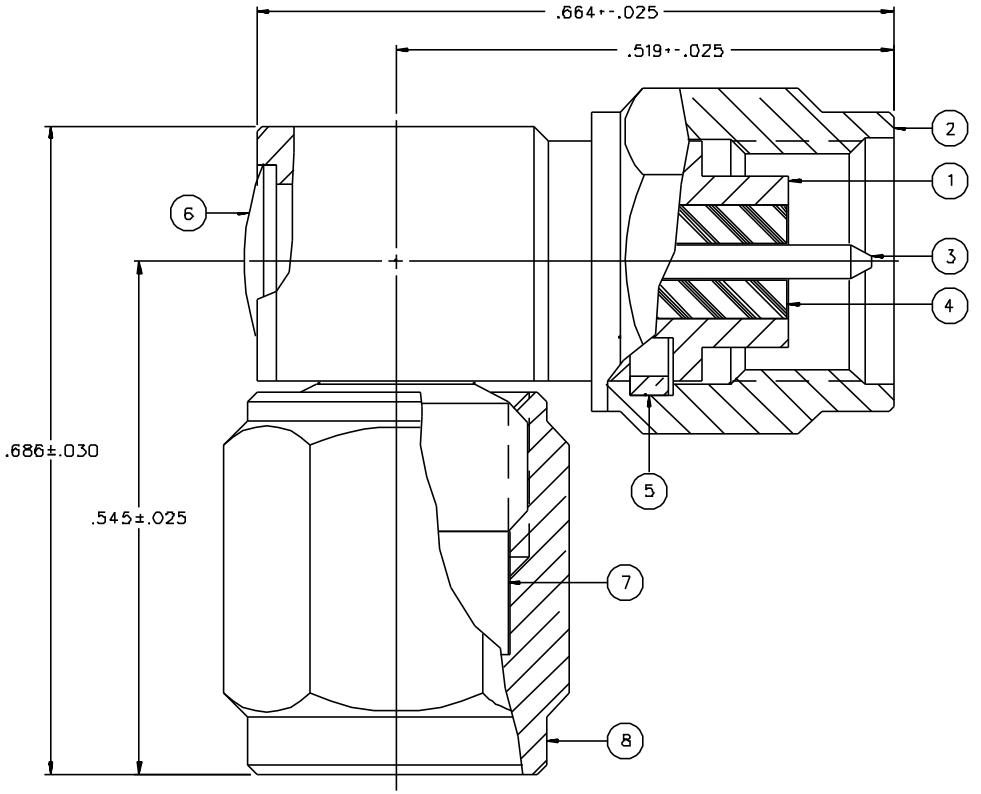
PART NUMBER	ITEM ① BODY	ITEM ② NUT	ITEM ③ CONTACT	ITEM ④ INSULATOR	ITEM ⑤ RETENTION SPRING	ITEM ⑥ END CAP	ITEM ⑦ CLAMP CONE
142-0207-101	BRASS GOLD PL .00001 MIN OVER NICKEL PL .0002 MIN OVER COPPER PL .00005 MIN	BRASS GOLD PL .00001 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	BRASS GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	TEFLON	BERYLLIUM COPPER UNPLATED	BRASS GOLD PL .00001 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	BRASS GOLD PL .00001 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN
142-0207-106	BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN	BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN	BRASS GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	TEFLON	BERYLLIUM COPPER UNPLATED	BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN	BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN

PART NUMBER	ITEM ⑧ CLAMP NUT
142-0207-101	BRASS GOLD PL .00001 MIN OVER NICKEL PL .0002 MIN OVER COPPER PL .00005 MIN
142-0207-106	BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN



NOTES:

1. SPECIFICATIONS:

IMPEDANCE: 50 OHMS
FREQUENCY RANGE: 0-12.4 GHz
VSWR: 1.15+.02 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 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 (GOLD PLATED) 5.0 MILLIOHM MAX (NICKEL PLATED)
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 AT 4 AND 7 MHz

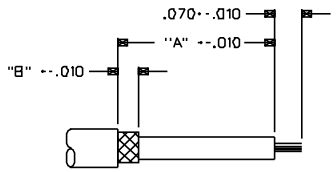
MECHANICAL:

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 GROUP: RG 58, RG 303, RG 141
RG 142 GROUP: RG 141, RG 223, RG 400, RG 55
CABLE HEX CRIMP SIZE: NOT APPLICABLE
CABLE RETENTION: 40 LBS MIN AXIAL FORCE (SINGLE SHIELD), 45 LBS FORCE (DOUBLE SHIELD)
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 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

CABLE	DIM "A"	DIM "B"
RG 58 GROUP	.395	.160
RG 142 GROUP	.420	.180



CABLE STRIP DIMENSIONS
4:1

DRAWING NO. C - 142-0207-101/110

0 REVISIONS

ENGINEERING RELEASE

1 | 1-22-91 | R H | Y T | A R | A W | 2-4-91 ECO 24992
CHANGED: DIM. "A" .395 WAS .280 & .420 WAS .360, DIM. "B" .160 WAS .053 & .180 WAS .150, RF LEAK 2.5 GHz WAS 2 TO 3, RF HIGH POT 4 & 7 MHz WAS 5 TO 7.5, ITEM 3 GOLD PL WAS .00003

2 | 6-24-92 | R H | T | A R | 7-22-92 ECO 40919
VERSION UPDATE

3 | 12-14-93 | R H | T A R | ECO 42108

CUSTOMER DRAWING

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

"μSTATION"

COMPANY CONFIDENTIAL

TOLERANCE UNLESS OTHERWISE SPECIFIED DECIMALS .XX ___ .XXX ___ mm ___ MATL ___ FINISH ___	DRAWN BY EJ	DATE 5-1-90
	CHECKED BY	DATE
	APPROVED BY VET/TAK	DATE 1-29-91
	APPROVED BY	DATE
	RELEASE DATE	

JOHNSON a cinch connectivity solutions brand
Cinch Connectivity Solutions
299 Johnson Ave, Ste. 100
Waseca, MN 56093
1-800-247-8256

TITLE: PLUG ASSEMBLY, RA CABLED, RG 58, 142 SMA

CODE NO. | DRAWING NO. C - 142-0207-101/110

SCALE 10:1 | U/M INCH | SHEET 2 OF 2

Please read our datasheet & drawing disclaimer here.