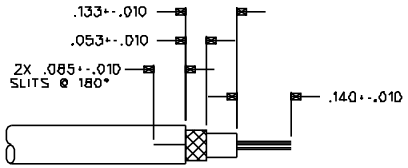
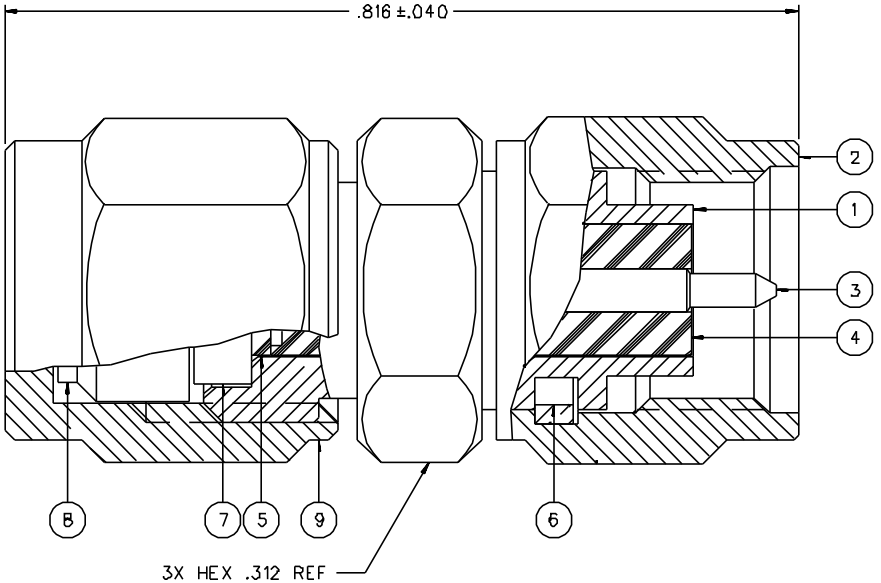
PART NUMBER	ITEM ① BODY	ITEM ② INTERFACE NUT	ITEM ③ CONTACT	ITEM ④ INSULATOR	ITEM ⑤ INSULATOR	ITEM ⑥ RETENTION SPRING	ITEM ⑦ CLAMP STEM	ITEM ⑧ CLAMP CONE
142-0202-011	BRASS GOLD PL .00001 MIN OVER NICKEL PL .0005 MIN OVER COPPER PL .00005 MIN	BRASS GOLD PL .00001 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	BRASS GOLD PL .00003 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	TEFZEL	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
142-0202-016	BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN	BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN	BRASS GOLD PL .00003 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	TEFZEL	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 ⑨ CLAMP NUT
142-0202-011	BRASS GOLD PL .00001 MIN OVER NICKEL PL .0005 MIN OVER COPPER PL .00005 MIN
142-0202-016	BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN



CABLE STRIP DIMENSIONS

4:1



NOTES:

1. SPECIFICATIONS:

IMPEDANCE: 50 OHMS
FREQUENCY RANGE: 0-12.4 GHz
VSWR: 1.20+.025 F MAX (F IN GHz)
WORKING VOLTAGE: 170 VRMS MAX AT SEA LEVEL
DIELECTRIC WITHSTANDING VOLTAGE: 500 VRMS MIN AT SEA LEVEL
INSULATION RESISTANCE: 5000 MEGOHM MIN
CONTACT RESISTANCE:
CENTER CONTACT - INITIAL 3.0 MILLIOHM MAX, AFTER ENVIRONMENTAL 4.0 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: 125 VOLTS MIN AT 70,000 FEET
INSERTION LOSS: .06√F dB MAX (F IN GHz) AT 6 GHz
RF LEAKAGE: -60 DB MIN AT 2.5 GHz
RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 335 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 178B/U, RG 196/U,
CABLE HEX CRIMP SIZE: NOT APPLICABLE
CABLE RETENTION: 10 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 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

DRAWING NO. C - 142-0202-011/020

0	REVISIONS		
ENGINEERING RELEASE			
1	3-1-91	RTAJHRJB	3-25-91 ECO 4028.3

CUSTOMER DRAWING

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

"μSTATION"

COMPANY CONFIDENTIAL

TOLERANCE UNLESS OTHERWISE SPECIFIED		DRAWN BY	DATE
DECIMALS	mm	TAK	2-22-91
.XX ———	———	CHECKED BY	DATE
.XXX ———	———		
MATL ———		APPROVED BY TAK	DATE 3-21-91
FINISH ———		APPROVED BY RJB	DATE 3-21-91
		RELEASE DATE	3-25-91

JOHNSON a cinch connectivity solutions brand

Cinch Connectivity Solutions
299 Johnson Ave, Ste. 100
Waseca, MN 56093
1-800-247-8256

TITLE: PLUG ASSEMBLY STRAIGHT CABLED SMA, RG 178

CODE NO. | DRAWING NO. C - 142-0202-011/020

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

Please read our datasheet & drawing disclaimer here.