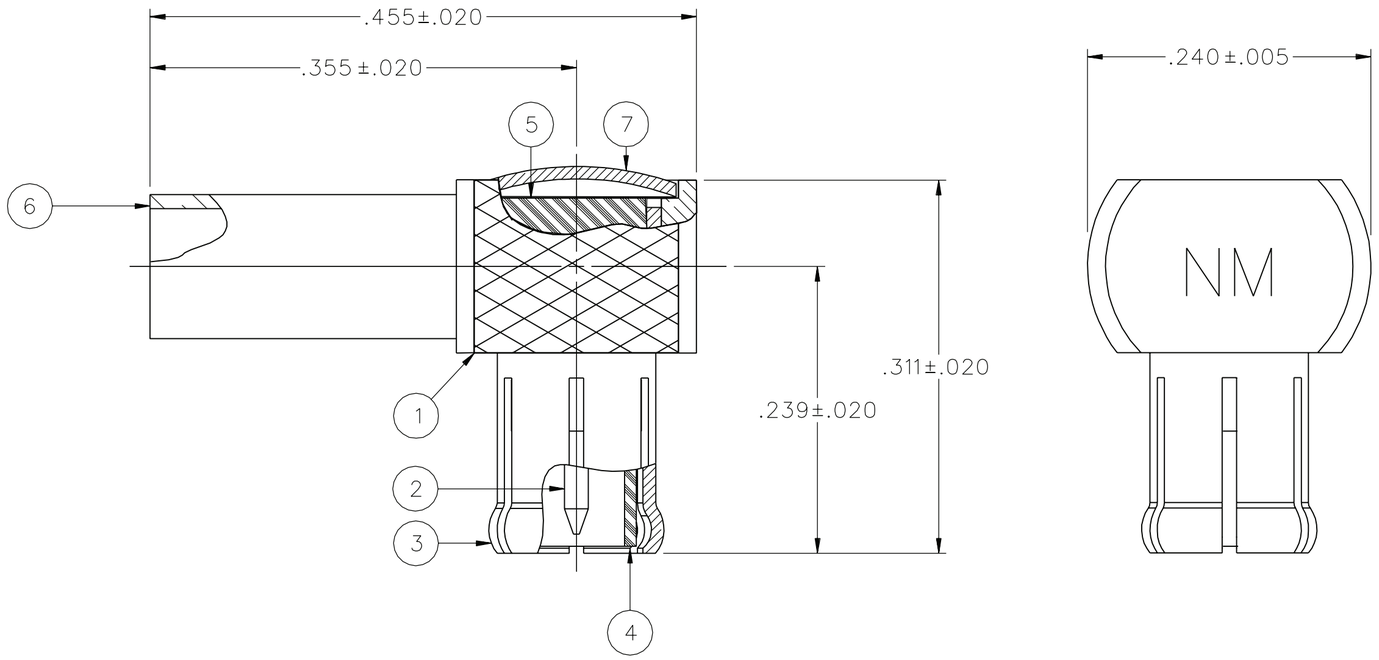
| PART NUMBER | ITEM ① BODY | ITEM ② CONTACT | ITEM ③ INTERFACE | ITEM ④ INSULATOR | ITEM ⑤ INSULATOR | ITEM ⑥ CRIMP SLEEVE | ITEM ⑦ END CAP |
|---|---|---|---|---|---|---|---|
| 133-9402-101 | COPPER ALLOY<br>GOLD PL .00005 MIN OVER<br>COPPER PL .00005 MIN | COPPER ALLOY<br>GOLD PL .00005 MIN OVER<br>COPPER PL .00005 MIN | COPPER ALLOY<br>GOLD PL .00005 MIN OVER<br>COPPER PL .00005 MIN | TEFLON | TEFLON | COPPER ALLOY<br>GOLD PL .00005 MIN OVER<br>COPPER PL .00005 MIN | COPPER ALLOY<br>GOLD PL .00005 MIN OVER<br>COPPER PL .00005 MIN |




NOTES:

1. SPECIFICATIONS:

IMPEDANCE: 50 OHMS

WORKING VOLTAGE: 250 VRMS MAX AT SEA LEVEL
DIELECTRIC WITHSTANDING VOLTAGE: 750 VRMS MIN AT SEA LEVEL
INSULATION RESISTANCE: 10000 MEGOHM MIN
CONTACT RESISTANCE:
CENTER CONTACT - INITIAL 5 MILLIOHM MAX, AFTER
ENVIRONMENTAL 15 MILLIOHM MAX
OUTER CONDUCTOR - GOLD PLATED INITIAL 1 MILLIOHM MAX, AFTER
ENVIRONMENTAL 1.5 MILLIOHM MAX
NICKEL PLATED INITIAL 2.5 MILLIOHM MAX, AFTER
ENVIRONMENTAL 3.5 MILLIOHM MAX
BODY TO CABLE - GOLD PLATED INITIAL 1 MILLIOHM MAX, AFTER
ENVIRONMENTAL NOT APPLICABLE
NICKEL PLATED INITIAL 2.5 MILLIOHM MAX, AFTER
ENVIRONMENTAL NOT APPLICABLE
CORONA LEVEL: 250 VOLTS MINIMUM AT 70,000 FEET
INSERTION LOSS: .2 DB MAX AT 1 GHz
RF LEAKAGE: -70 DB AT 2.5 GHz
RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 500 VRMS AT 4 AND 7 MHz

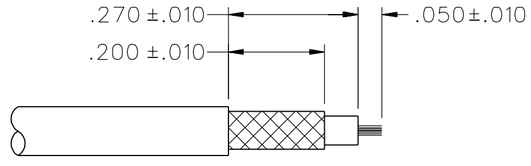
MECHANICAL:

ENGAGE/DISENGAGE FORCE: 5.6 LBS MAX ENGAGEMENT
1.0/8.0 LBS MIN/MAX DISENGAGEMENT
CONTACT RETENTION FORCE: 2.3 LBS MIN AXIAL FORCE
CONTACT RETENTION TORQUE: NOT APPLICABLE
COUPLING MECHANISM RETENTION: NOT APPLICABLE
CABLE ACCEPTABILITY: RG 178, RG 196
CABLE HEX CRIMP SIZE: .105
CABLE RETENTION: 10 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 F
OPERATING TEMPERATURE: -65 DEG C TO 165 DEG C
CORROSION: MIL-STD-202, METHOD 101, CONDITION B
SHOCK: MIL-STD-202, METHOD 213, CONDITION B
VIBRATION: MIL-STD-202, METHOD 204, CONDITION B
MOISTURE RESISTANCE: MIL-STD-202, METHOD 106

2. CONNECTOR MARKED "NM" FOR NON-MAGNETIC




CABLE STRIP DIMENSIONS

4:1

DRAWING NO.
C – 133-9402-101/110

| 0 | REVISIONS | | | | | | |
|---|---|---|---|---|---|---|---|
| ENGINEERING RELEASE | | | | | | | |
| 1 | 2-5-08 | PAT | RJB | MJU | TJS | JCN | 2-6-08 ECN 51376 |
| VERSION UPDATE<br>* REVISION NUMBER FOLLOWED BY AN ALPHA CHARACTER INDICATES DRAWING CLARIFICATION OR PART NUMBER ADDITION ONLY. * | | | | | | | |
| 1a | 1-22-09 | PAT | RJB | MJU | RB | JCN | 1-27-09 ECN 51755 |

CUSTOMER DRAWING

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

"μSTATION"

COMPANY CONFIDENTIAL

| TOLERANCE UNLESS OTHERWISE SPECIFIED | | DRAWN BY | DATE |
|---|---|---|---|
| DECIMALS | mm | RJB | 2-5-08 |
| .XX | | CHECKED BY | DATE |
| .XXX | | RJB | 2-6-08 |
| MATL | | APPROVED BY | DATE |
| | | TJS | 2-6-08 |
| FINISH | | RELEASE DATE | 2-6-08 |
| | | U/M INCH | SCALE 10:1 |


cinch CONNECTIVITY SOLUTIONS a bel group
Cinch Connectivity Solutions
P.O. Box 1732
Waseca, MN 56093
1-800-247-8256


TITLE
PLUG ASSEMBLY,
RIGHT ANGLE CABLED,
NON-MAGNETIC MCX, RG 178

SHEET 2 OF 2

DRAWING NO.
C – 133-9402-101/110

Please read our datasheet & drawing disclaimer here.