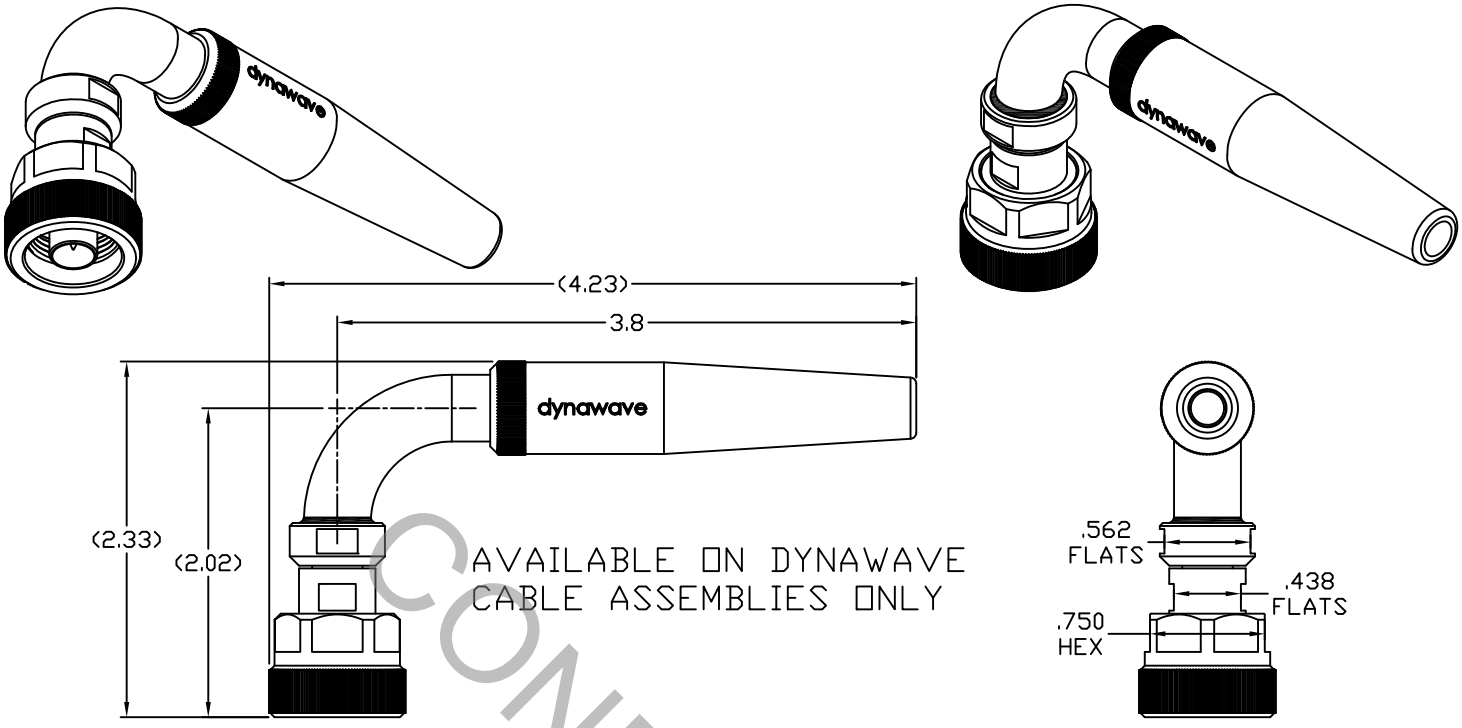
# SPECIFICATION CONTROL DRAWING

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1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 304.1 (N PLUG)

2. ELECTRICAL

| | |
|---|---|
| FREQUENCY RANGE GHz | DC TO 18 GHz |
| VSWR (MAX.) ❋ | 1.02 + .004 x FGHz |
| INSERTION LOSS (dB MAX.) ❋ | .08 dB x $\sqrt{FGHz}$ |
| NOMINAL IMPEDANCE (OHMS) | 50 |
| VOLTAGE RATING (MAX. VRMS) | 433 |
| RF LEAKAGE (MIN. dB DOWN) | −100 dB − FGHz |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | −60°c TO + 165°c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | 1,300 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | 5,000 |
| CONTACT RESISTANCE | |
| • CENTER CONTACT (MAX. MILLIOHMS) | 2.0 |
| • OUTER CONTACT (MAX. MILLIOHMS) | 2.0 |

❋ TERMINATED IN A 50 OHM LOAD

**RoHS**
COMPLIANT

This Document contains proprietary and confidential information.

| REV. | DCN NO. | DATE | APP. |
|---|---|---|---|
| AA | 15-1275 | 2/24/15 | DC |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

DIMENSIONS ARE IN INCHES
TOLERANCES

| DECIMALS | FRACTIONAL | ANGULAR |
|---|---|---|
| .X ±.030<br>.XX ±.010<br>.XXX ±.005 | ± 1/64 | X° ± 1° 0'<br>X°, X' ± 15' |

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| | | | |
|---|---|---|---|
| DRAWN | DC | DATE | 2/24/15 |
| APPROVED | DC | DATE | 2/24/15 |

TITLE: N PLUG, RIGHT ANGLE, SOLDER CLAMP, 7-00185 CABLE

| CODE IDENT. | SHEET 1 OF 2 | DWG. NO. |
|---|---|---|
| 2J899 | | 7401-7185-6299 |

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

| | |
|---|---|
| CAPTIVATION–CENTER CONTACT | |
| MAX. AXIAL FORCE | 6.0 LBS. |
| MAX. RADIAL TORQUE | N/A |
| CENTER CONTACT AXIAL FORCES | |
| ● INSERTION (MAX. OUNCES) | N/A |
| ● WITHDRAWAL (MIN. OUNCES) | N/A |
| CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) | 2.0 |
| CONNECTOR DURABILITY (MIN. CYCLES) | 500 |
| RECOMMENDED MATING TORQUE | 10 – 15 IN. LBS. |
| RECOMMENDED MOUNTING TORQUE | N/A |

## 4. ENVIRONMENTAL

| | |
|---|---|
| TEMPERATURE CYCLING | MIL–STD–202, METHOD 107, COND. C ( –66° c TO + 166° c ) |
| SHOCK | MIL–STD–202, METHOD 213, COND. I (100 G's) |
| VIBRATION | MIL–STD–202, METHOD 204, COND. D (20 G's) |
| MOISTURE RESISTANCE | MIL–STD–202, METHOD 106, LESS STEP 7b |
| CORROSION | MIL–STD–202, METHOD 101, COND. B (48 HOURS) |
| BAROMETRIC PRESSURE (ALTITUDE) | MIL–STD–202, METHOD 105, COND. C ( 70,000 FT. ) ( 325 VRMS ) |

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## 5. MATERIAL

| | |
|---|---|
| BODY, COUPLING NUT, CLAMP NUT & PRESS SLEEVES | STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A |
| CONTACT, PRESS RING & RETAINING RING | BERYLLIUM COPPER PER ASTM–B–196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04. |
| INSULATOR | TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B. |
| SOLDER SLEEVE | BRASS PER ASTM–B–16, TEMPER H02, ALLOY C36000. |
| MOLDED BOOT | PVC, 81 DUROMETER (BLACK) |

## 6. FINISH

| | |
|---|---|
| BODY, CLAMP NUT & COUPLING NUT | ELECTRO POLISH PER ASTM B912. |
| PRESS SLEEVES | PASSIVATE PER AMS–2700, TYPE 2, CLASS 4 |
| PRESS RING | NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000200 MIN. THK.) OVER COPPER PER AMS–2418 (.000010 MIN. OR AS SPECIFIED) |
| SOLDER SLEEVE | GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER SAE–AMS–QQ–N–290 CLASS 1 (.000150 MIN. THK.) OVER COPPER PER AMS–2418 (.000010 MIN. THK.) |
| CONTACT | GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER SAE–AMS–QQ–N–290 CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS–2418 (.000010 MIN. THK.) |
| INSULATOR, RETAINING RING & MOLDED BOOT | N/A |