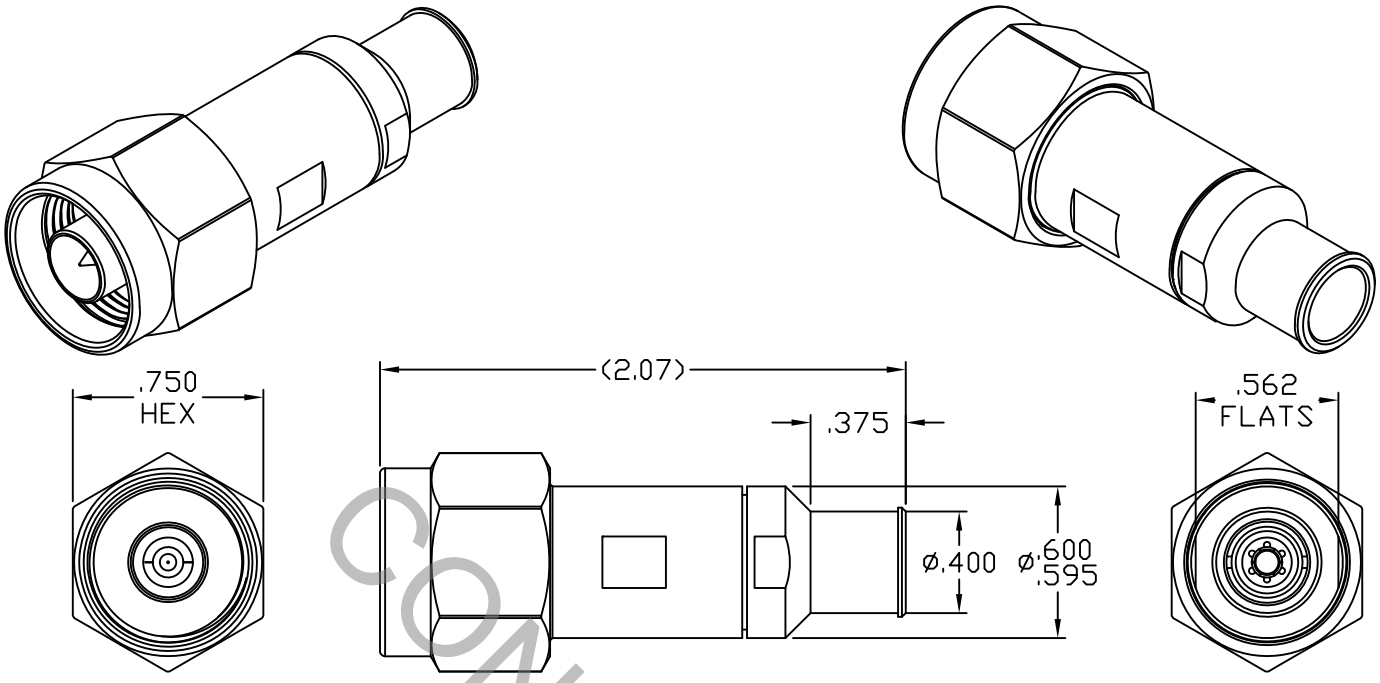
# SPECIFICATION CONTROL DRAWING

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1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 402.1 MODIFIED (N PLUG) WITH SOLID OUTER.

2. ELECTRICAL

| | |
|---|---|
| FREQUENCY RANGE GHz | DC TO 18.0 GHz |
| VSWR (MAX.) ❋ | 1.03 + .004 x FGHz |
| INSERTION LOSS (dB MAX.) ❋ | .05 dB x $\sqrt{\text{FGHz}}$ |
| NOMINAL IMPEDANCE (OHMS) | 50 |
| VOLTAGE RATING (MAX. VRMS) | 667 |
| RF LEAKAGE (MIN. dB DOWN) | −100 dB − FGHz |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | −65°c TO + 165°c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | 2,000 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | 5,000 |
| CONTACT RESISTANCE | |
| • CENTER CONTACT (MAX. MILLIOHMS) | 1.5 |
| • OUTER CONTACT (MAX. MILLIOHMS) | 2.0 |

❋ TERMINATED IN A 50 OHM LOAD

This Document contains proprietary and confidential information.

**RoHS** COMPLIANT

| REV. | DCN NO. | DATE | APP. |
|---|---|---|---|
| AA | 14-1606 | 5/16/14 | 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' |

dynawave CABLE INCORPORATED
HAVERHILL, MA 01835

DRAWN RMS DATE 5/16/14

APPROVED DC DATE 5/16/14

TITLE
N PLUG,
SOLDER CLAMP, PLUG-IN
CONTACT, DF218 LOW LOSS

CODE IDENT. 6DZL5

SHEET 1 OF 2

DWG. NO. 7400-218T-6240

# 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 — 15 – 18 IN. LBS.

## 4. ENVIRONMENTAL

| | |
|---|---|
| THERMAL SHOCK | MIL–STD–202, METHOD 107, COND. B ( –65° c TO + 165° 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. ) ( 500 VRMS ) |

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## 5. MATERIAL

| | |
|---|---|
| BODY, BUSHINGS, CLAMP NUT, COUPLING NUT & PRESS SLEEVE | STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A |
| CONTACTS & RETAINING RING | BERYLLIUM COPPER PER ASTM–B–196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04. |
| FRONT INSULATOR | TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B. |
| REAR INSULATOR | CROSS LINKED POLYETHYLENE (400° F). |
| SOLDER SLEEVE | BRASS PER ASTM–B–16, TEMPER H02, ALLOY C36000. |

## 6. FINISH

| | |
|---|---|
| BODY, BUSHINGS, CLAMP NUT, COUPLING NUT & PRESS SLEEVE | PASSIVATE PER AMS–2700, TYPE 2, CLASS 4. |
| 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.) |
| CONTACTS | GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 0.75 (.000030 MIN. THK.) OVER NICKEL PER SAE–AMS–QQ–N–290 CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS–2418 (.000010 MIN. THK.) |
| INSULATORS & RETAINING RING | N/A |