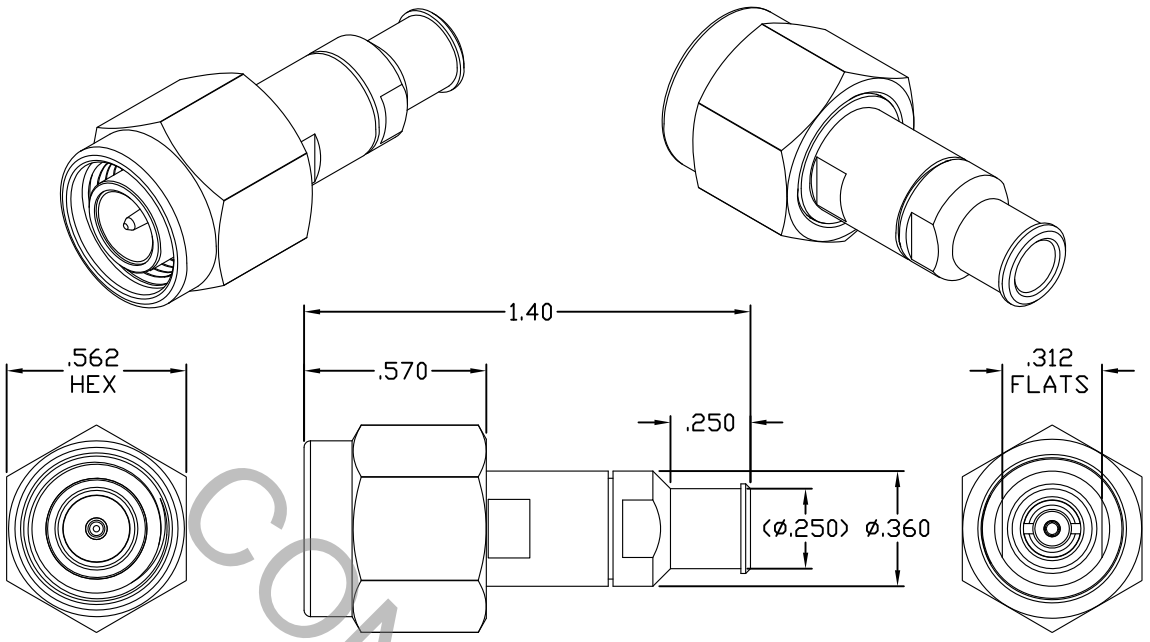
# SPECIFICATION CONTROL DRAWING




CONFIDENTIAL

1. MATING INTERFACE DIMENSIONS MIL-STD-348 Fig. 313.3 (TNCA PLUG) WITH SOLID OUTER.

2. ELECTRICAL

| | |
|---|---|
| FREQUENCY RANGE GHz | DC TO 18.0 GHz |
| VSWR (MAX.) ❋ | 1.06 + .006 x FGHz |
| INSERTION LOSS (dB MAX.) ❋ | .05 dB x $\sqrt{\text{FGHz}}$ |
| NOMINAL IMPEDANCE (OHMS) | 50 |
| VOLTAGE RATING (MAX. VRMS) | 333 |
| RF LEAKAGE (MIN. dB DOWN) | 100 dB − FGHz |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | −65°c TO + 165°c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | 1,000 |
| 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 | 14-1317 | 3/17/14 | 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 3/17/14

APPROVED DC DATE 3/17/14

TITLE TNCA PLUG, SOLDER CLAMP, PLUG-IN CONTACT, DF140 LOW LOSS

CODE IDENT. 6DZL5

SHEET 1 OF 2

DWG. NO. 8400-140H-3240

# 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.

CONFIDENTIAL

## 4. ENVIRONMENTAL

| | |
|---|---|
| TEMPERATURE CYCLING | MIL–STD–202, METHOD 102, COND. C ( –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. ) ( 250 VRMS ) |

## 5. MATERIAL

| | |
|---|---|
| BODY, COUPLING NUT, CLAMP NUT & PRESS SLEEVE | STAINLESS STEEL PER ASTM–A–479, TYPE 316L. |
| CONTACT & RETAINING RING | BERYLLIUM COPPER PER ASTM B196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04. |
| INSULATORS | TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B. |
| SOLDER SLEEVE | BRASS PER ASTM–B–16, TEMPER H02, ALLOY 36000. |
| GASKET & O–RING | SILICONE RUBBER PER ZZ–R–765 |

## 6. FINISH

| | |
|---|---|
| BODY, COUPLING NUT, CLAMP 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.) |
| 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.) |
| INSULATORS, GASKET, O–RING & RETAINING RING | N/A |