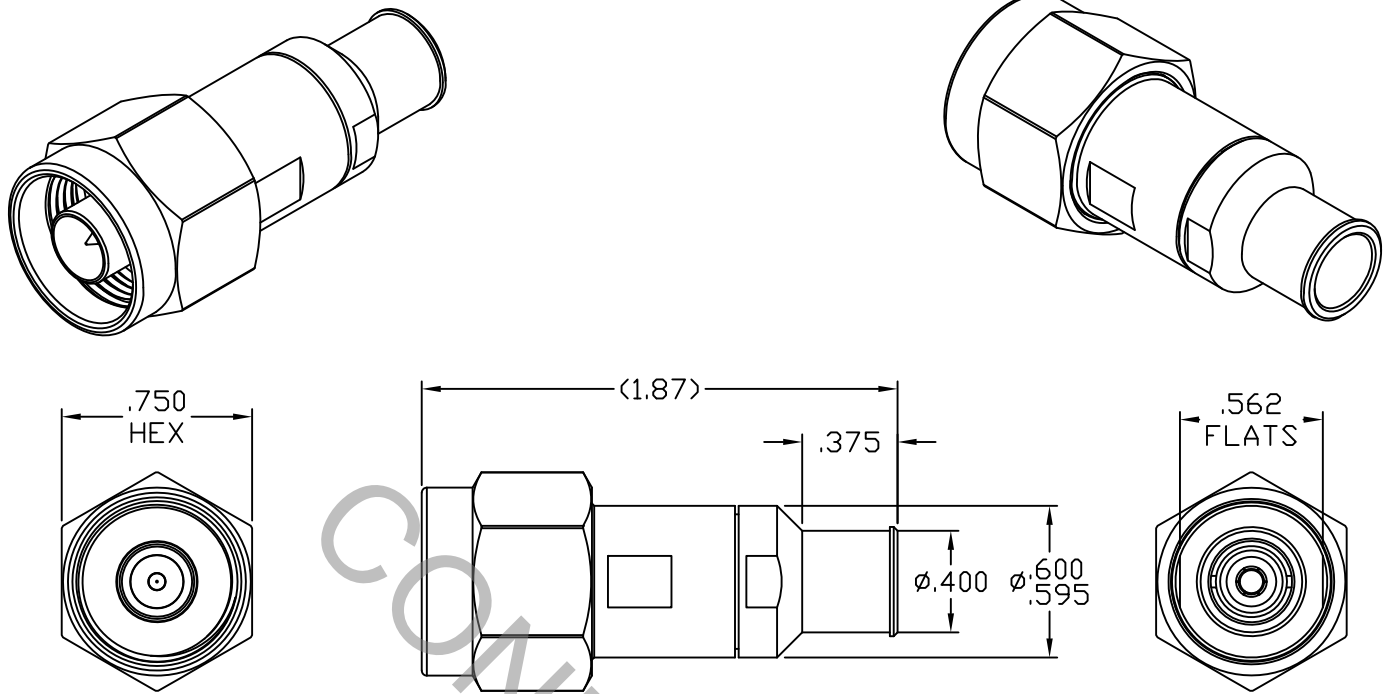


# SPECIFICATION CONTROL DRAWING



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

## 2. ELECTRICAL

|                                             |                               |
|---------------------------------------------|-------------------------------|
| FREQUENCY RANGE GHz                         | DC TO 18.0 GHz                |
| VSWR (MAX) *                                | 1.08 + .007 x FGHz            |
| INSERTION LOSS (dB MAX) *                   | .08 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

**RoHS**  
COMPLIANT

|      |         |         |      |                                        |            |                             |                                                                                                                                                               |                |                                                                      |
|------|---------|---------|------|----------------------------------------|------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------|
| REV. | DCN NO. | DATE    | APP. | DIMENSIONS ARE IN INCHES<br>TOLERANCES |            |                             | <div></div> <div>CABLE INCORPORATED</div> <div>HAVERHILL, MA 01835</div> |                |                                                                      |
| AA   | 12-1526 | 6/29/12 | DC   | DECIMALS                               | FRACTIONAL | ANGULAR                     |                                                                                                                                                               |                |                                                                      |
| AA   | 12-1873 | 9/27/12 | DC   | .X ± .030<br>.XX ± .010<br>.XXX ± .005 | ± 1/64     | X ° ± 1° 0'<br>X ° X' ± 15' |                                                                                                                                                               |                |                                                                      |
|      |         |         |      | DRAWN DC                               |            |                             | DATE                                                                                                                                                          | 6/29/12        | TITLE<br>N PLUG,<br>SOLDER CLAMP, PLUG-IN<br>CONTACT, DF218 LOW LOSS |
|      |         |         |      | APPROVED DC                            |            |                             | DATE                                                                                                                                                          | 6/29/12        |                                                                      |
|      |         |         |      | CODE IDENT.                            |            |                             | SHEET 1 OF 2                                                                                                                                                  |                |                                                                      |
|      |         |         |      | 6DZL5                                  |            |                             |                                                                                                                                                               |                |                                                                      |
|      |         |         |      |                                        |            |                             | DWG.<br>NO.                                                                                                                                                   | 7400-218H-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 )

## 5. MATERIAL

BODY, BUSHING, CLAMP NUT & COUPLING NUT \_\_\_\_\_ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

CONTACT & 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.

GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765.

SOLDER SLEEVE \_\_\_\_\_ BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.

## 6. FINISH

BODY, BUSHING, CLAMP NUT & COUPLING NUT \_\_\_\_\_ 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 NICKEL (WOODS OR WATTS)  
(.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, RETAINING RING & GASKET \_\_\_\_\_ N/A