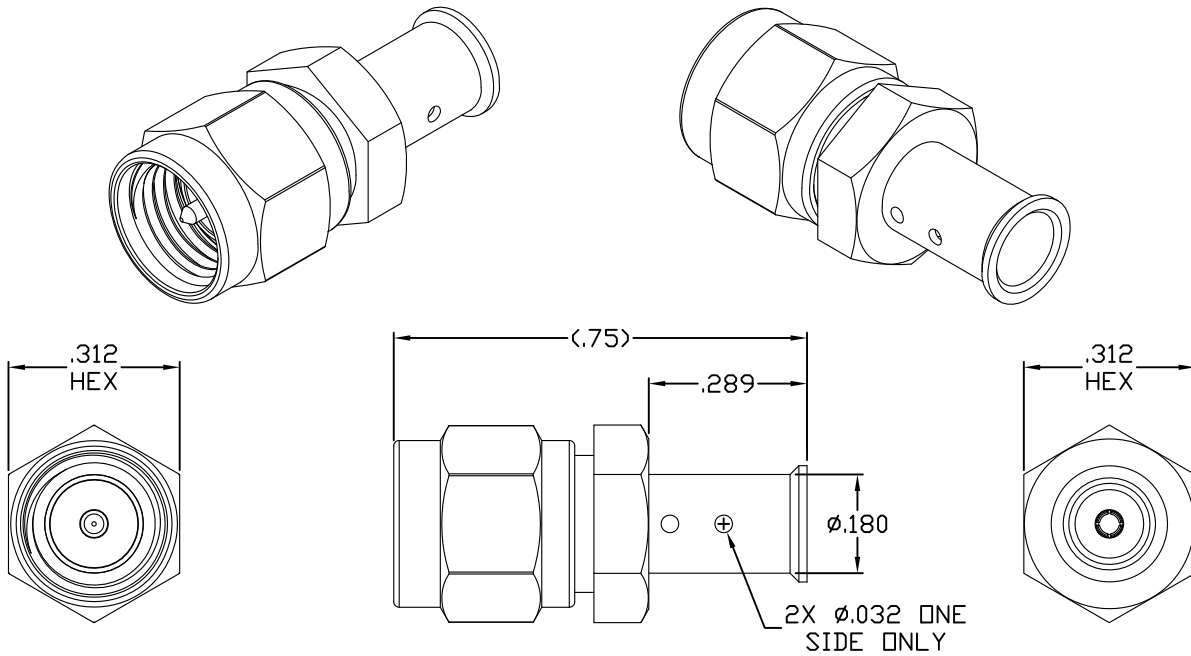


# SPECIFICATION CONTROL DRAWING



**SOLD ON DYNAWAVE CABLE ASSEMBLIES ONLY**

1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.1 (SMA PLUG).

2. ELECTRICAL

|   |       |                    |
|---|-------|--------------------|
| FREQUENCY RANGE GHz                         | _____ | DC TO 26.5 GHz     |
| VSWR (MAX) *                                | _____ | 1.06 + .007 x FGHz |
| INSERTION LOSS (dB MAX) *                   | _____ | .04 dB x √FGHz     |
| NOMINAL IMPEDANCE (OHMS)                    | _____ | 50                 |
| VOLTAGE RATING (MAX. VRMS)                  | _____ | 250                |
| RF LEAKAGE (MIN. dB DOWN)                   | _____ | -100 dB - FGHz     |
| TEMPERATURE RATING (DEGREES CENTIGRADE)     | _____ | -65°C TO + 165°C   |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | _____ | 750                |
| INSULATION RESISTANCE (MIN. MEGOHMS)        | _____ | 5,000              |
| CONTACT RESISTANCE                          |       |                    |
| • CENTER CONTACT (MAX. MILLIOHMS)           | _____ | 6.0                |
| • 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. | DIMENSIONS ARE IN INCHES<br>TOLERANCES |            |              | CABLE INCORPORATED<br>HAVERHILL, MA 01835     |
|------|---------|---------|------|--|------------|--------------|---|
| AA   | 16-2013 | 8/24/16 | DC   | DECIMALS                               | FRACTIONAL | ANGULAR      |   |
|      |         |         |      | .X ± .030                              |            | X ° ± 1° 0'  |   |
|      |         |         |      | .XX ± .010                             | ± 1/64     | X ° X' ± 15' |   |
|      |         |         |      | .XXX ± .005                            |            |              |   |
|      |         |         |      | DRAWN                                  | RMS        | DATE         | 8/23/16                                       |
|      |         |         |      | APPROVED                               | DC         | DATE         | 8/24/16                                       |
|      |         |         |      | CODE IDENT.                            |            |              |   |
|      |         |         |      | 6DZL5                                  |            | SHEET 1 OF 2 |   |
|      |         |         |      | DWG. NO.                               |            |              | 9800-140W-6100                                |
|      |         |         |      |  |            | TITLE        | SMA PLUG,<br>DIRECT SOLDER TO<br>DF140W CABLE |

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION-CENTER CONTACT  
 MIN. AXIAL FORCE \_\_\_\_\_ 6.0 LBS.  
 MIN. 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 \_\_\_\_\_ 7 - 10 IN. LBS.

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 107, 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. ) ( 190 VRMS )

## 5. MATERIAL

BODY & 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.  
 INSULATOR \_\_\_\_\_ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.  
 GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765.

## 6. FINISH

COUPLING NUT \_\_\_\_\_ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.  
 BODY \_\_\_\_\_ TRI-METAL ALLOY COMPRISED OF 55%-60% COPPER,  
 25%-28% TIN, 14%-18% ZINC.  
 PLATING THICKNESS: .0001-.0002 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 & GASKET \_\_\_\_\_ N/A