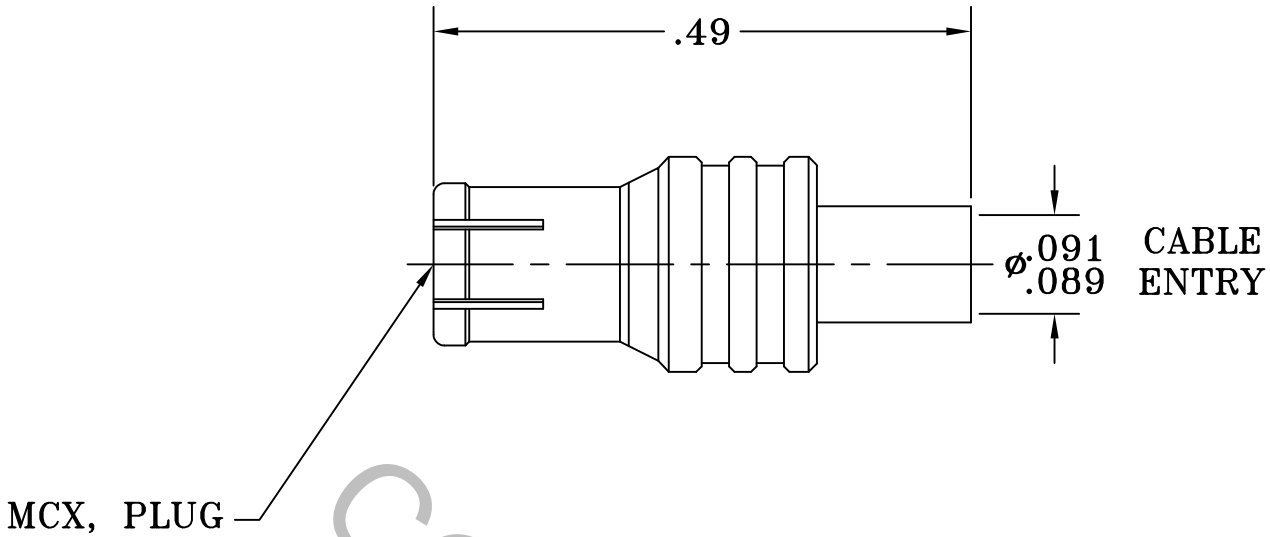
# SPECIFICATION CONTROL DRAWING

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1. MATING INTERFACE DIMENSIONS FOR MCX PLUG PER CECC 22220 (MCX, PLUG)

2. ELECTRICAL

| | |
|---|---|
| FREQUENCY RANGE GHz | DC TO 6.0 GHz. |
| VSWR (MAX.) ❋ | 1.07 + .04 x FGHz |
| INSERTION LOSS (dB MAX.) ❋ | 0.1 dB x $\sqrt{FGHZ}$ |
| NOMINAL IMPEDANCE (OHMS) | 50 |
| VOLTAGE RATING (MAX. VRMS) | 335 |
| RF LEAKAGE (MIN. dB DOWN) | −60dB |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | −65° c TO +165° c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | 1,000 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | 10,000 |
| CONTACT RESISTANCE | |
| • CENTER CONTACT (MAX. MILLIOHMS) | 5.0 |
| • OUTER CONTACT (MAX. MILLIOHMS) | 1.0 |

❋ TERMINATED IN A 50 OHM LOAD

**RoHS** COMPLIANT

**This Document contains proprietary and confidential information.**

| REV. | DCN NO. | DATE | APP. |
|---|---|---|---|
| AA | 03−1440 | 4/7/03 | DC |
| AB | 14−1466 | 4/15/14 | TS |

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' |

SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL MA. 01835

DRAWN GE DATE 4/3/03

APPROVED DC DATE 4/3/03

TITLE
MCX, PLUG
STRAIGHT, DIRECT SOLDER
TO ø.085 S.R. CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 1500−8520−2400

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- MIN. AXIAL FORCE ——— 2.3 LBS.
- MIN. RADIAL TORQUE ——— N/A

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)

- INSERTION (MAX. LBS.) ——— 5.6
- WITHDRAWAL (MIN. LBS.) ——— 1.0

CONNECTOR DURABILITY (MIN. CYCLES) ——— 500

## 4. ENVIRONMENTAL

| | |
|---|---|
| TEMPERATURE CYCLING | MIL–STD–202, METHOD 102, COND. C ( –65 ° c TO + 165 °c ) |
| SHOCK | MIL–STD–202, METHOD 213, COND. B (100 G's) |
| VIBRATION | MIL–STD–202, METHOD 204, COND. B (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 ) |

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## 5. MATERIAL

| | |
|---|---|
| CONNECTOR BODY & CENTER CONTACT | BRASS PER ASTM B16, TEMPER H02, ALLOY C360000 |
| INSULATOR | TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B. |

## 6. FINISH

| | |
|---|---|
| CONNECTOR BODY & CENTER CONTACT | GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 0.75<br>(.000030 MIN. THK.) OVER NICKEL PER SAE AMS QQ–N–290, CLASS 1<br>(.000050 MIN. THK.)OVER COPPER PER AMS 2418 (.000010 MIN. THK.). |
| INSULATOR | N/A |