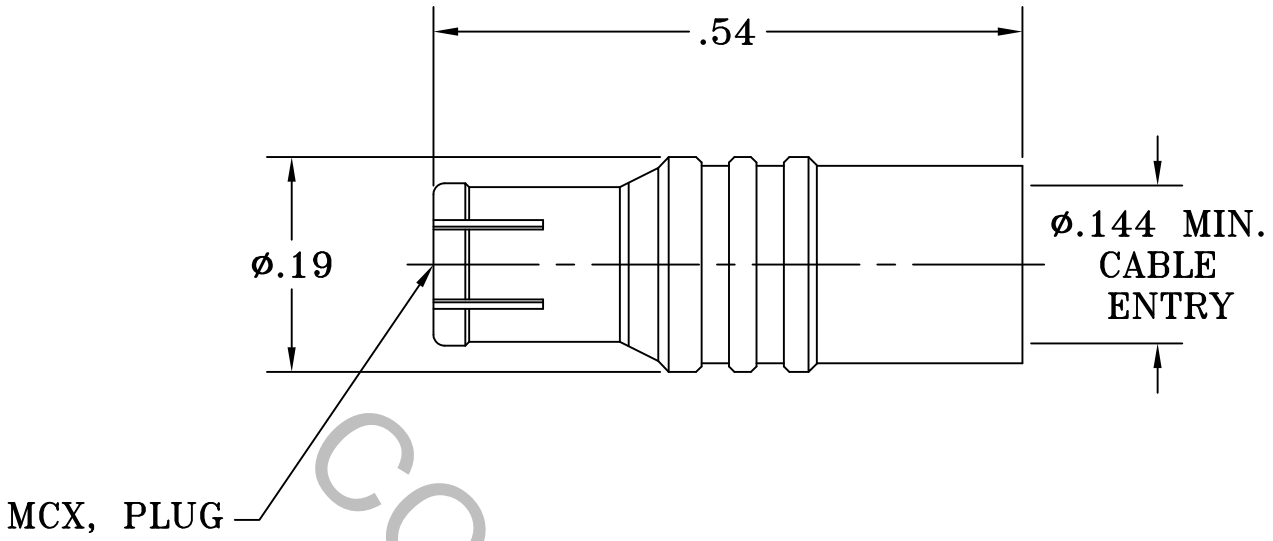
SPECIFICATION CONTROL DRAWING



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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	14−1323	3/18/14	TS
AB	14−1342	3/21/14	TS

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ±.030, .XX ±.010, .XXX ±.005
FRACTIONAL: ±1/64
ANGULAR: X° ±1°0', X° X' ±15'
SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL MA. 01835

DRAWN TS DATE 3/18/14

APPROVED DC DATE 3/18/14

TITLE
MCX, PLUG
STRAIGHT, DIRECT SOLDER
TO .141 S.R. CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 1500−4120−5400

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	BERYLLIUM COPPER PER ASTM B196/B, 196M–03, COPPER ALLOY UNS C17300, TEMPER TD04.
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 0.70 (.000030 MIN. THK.) OVER NICKEL PER SAE AMS QQ–N–290, CLASS 1 (.000030 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.).
INSULATOR	N/A