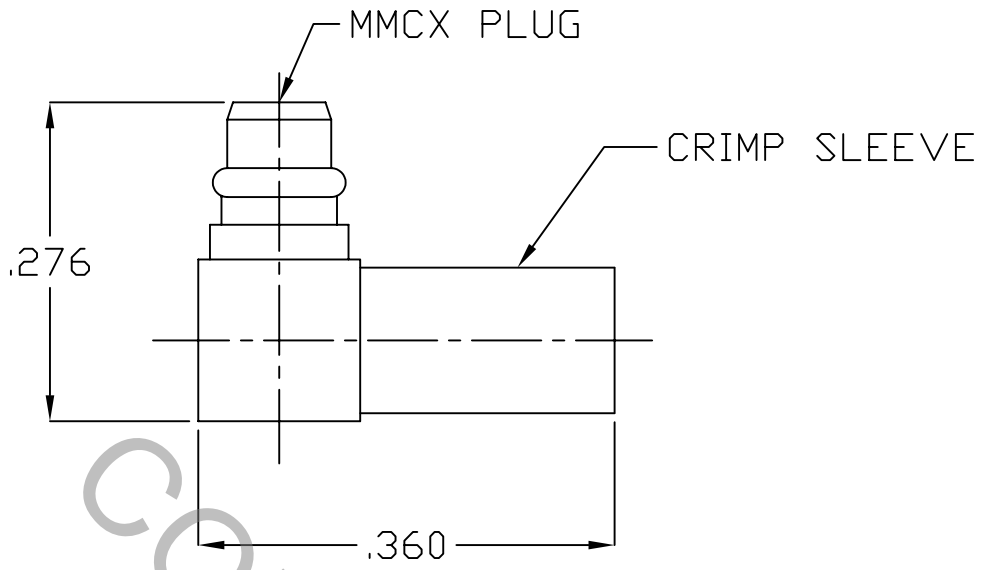
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-1A.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 6.0 GHz.
VSWR (MAX.) ❋	1.10 + .040 x FGHz.
INSERTION LOSS (dB MAX.)	.045 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	60 dB − FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO + 150°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	1,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	5.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.5

❋ GATED TEST DATA

REV.	DCN NO.	DATE	APP.
AA	06-1367	3/23/06	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.030 .XX ±.010 .XXX ±.005	±1/64	X°± 1° 0' X° X' ±15'

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN DC DATE 3/23/06

APPROVED TS DATE 3/23/06

TITLE
MMCX, PLUG, R/A, CRIMP ATTACHMENT FOR RG-178 FLEXIBLE CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2401-7820-2401

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

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

CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) — INTERFACE 32.0
- WITHDRAWAL (MIN. OUNCES) — INTERFACE 1.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN./LBS.) — 3.4 LBS.

CONNECTOR DURABILITY (MIN. CYCLES) — 500

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–65 ° c TO + 200 °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.) (125 VRMS)

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5. MATERIAL

CONNECTOR BODY	BRASS PER QQB–626, 1/2 HARD, ALLOY 360
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.
INSULATOR	TEFLON PER ASTM D 4894–91

6. FINISH

CONNECTOR BODY AND CENTER CONTACT	GOLD PER ASTM B 488, TYPE 2, CODE C, CLASS 2.5 (.000010 MIN.) OVER NICKEL PER QQ–N–290, CLASS 1 (.00010 MIN.) OVER COPPER PER MIL–C–14550 (.000040 MIN.)
INSULATOR	N/A