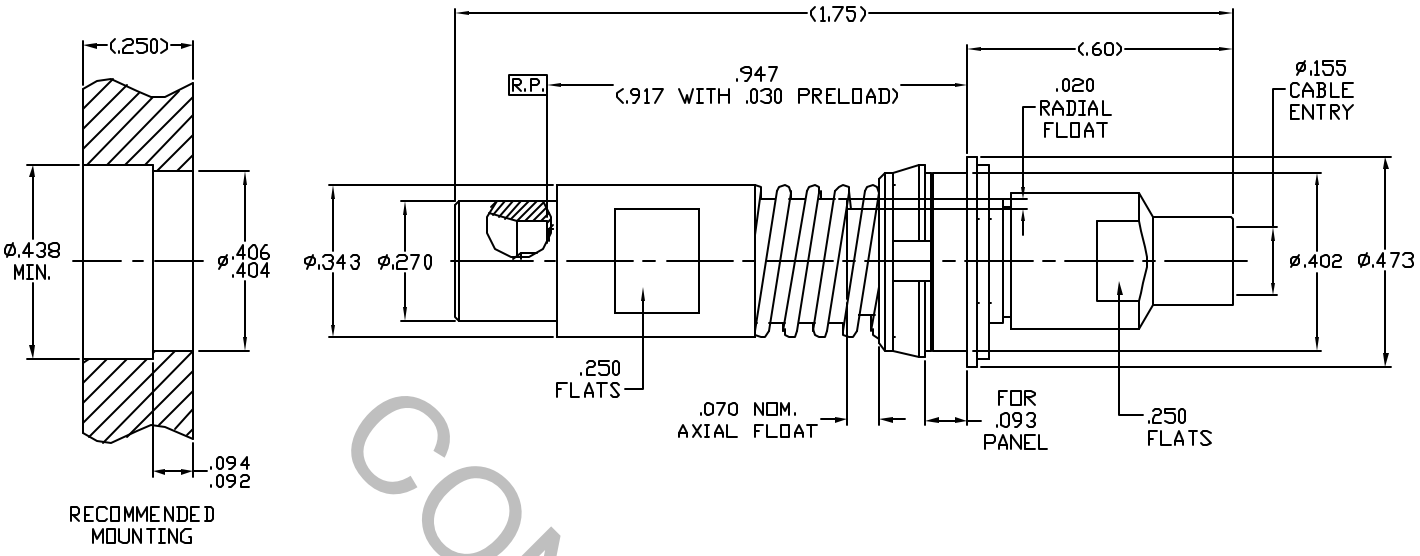
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS Per DYNAWAVE MD-24-4 (DMS PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 23.0 GHz
VSWR (MAX.) ❁	1.06 + .005 x FGHz
INSERTION LOSS (dB MAX.) ❁	.03 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX VRMS)	333
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,000
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

REV.	DCN NO.	DATE	APP.
AA	07-1173	2/19/07	DC
AB	07-1419		

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 2/19/07

APPROVED DC DATE 2/19/07

TITLE DMS PLUG, SNAP-IN PANEL, FLOAT MOUNT, SOLDER CLAMP, STORM 421-1125 LL CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2460-6845-6200

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)	INTERFACE 32.0
• WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	500
SPRING FLOAT FORCE (MIN. LBS.)	3.0
RECOMMENDED REMOVAL TOOL	9–24000
WEIGHT (GRAMS)	12.67

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, 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.) (250 VRMS)

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5. MATERIAL

BODY, FERRULE & CLAMP NUT	STAINLESS STEEL PER ASTM–A–581, TYPE 303, COND. A
CONTACT & RETAINING RING	BERYLLIUM COPPER PER ASTM B196–9D, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATORS	TEFLON PER ASTM–D1710.
SPRING	STAINLESS STEEL PER ASTM–A–313 OR AMS 5688, TYPE 302, SPRING TEMPER
SOLDER SLEEVE	BRASS PER ASTM–B16, TEMPER H02, ALLOY C36000.
E–RING	SPRING STEEL PER SAE 1060–1090

6. FINISH

BODY, FERRULE, SPRING & CLAMP NUT	PASSIVATE PER AMS QQ–P–35, TYPE 2.
SOLDER SLEEVE	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL per QQ–N–290 (.000150 MIN. THK.) OVER COPPER per MIL–C–14550 (.000010 MIN. THK.)
CONTACT	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 2.5 (.000100 MIN. THK.) OVER NICKEL per QQ–N–290 (.000050 MIN. THK.) OVER COPPER per MIL–C–14550 (.000010 MIN. THK.)
E–RING	CORROSION RETARDANT PHOSPHATE COATING PER MIL–P–16232D, TYPE Z
FERRULE	BRIGHT NICKEL per QQ–N–290, CLASS 1 (.000200 MIN. THK.) OVER COPPER per MIL–C–14550 (.000010 MIN. THK.)
INSULATORS	N/A