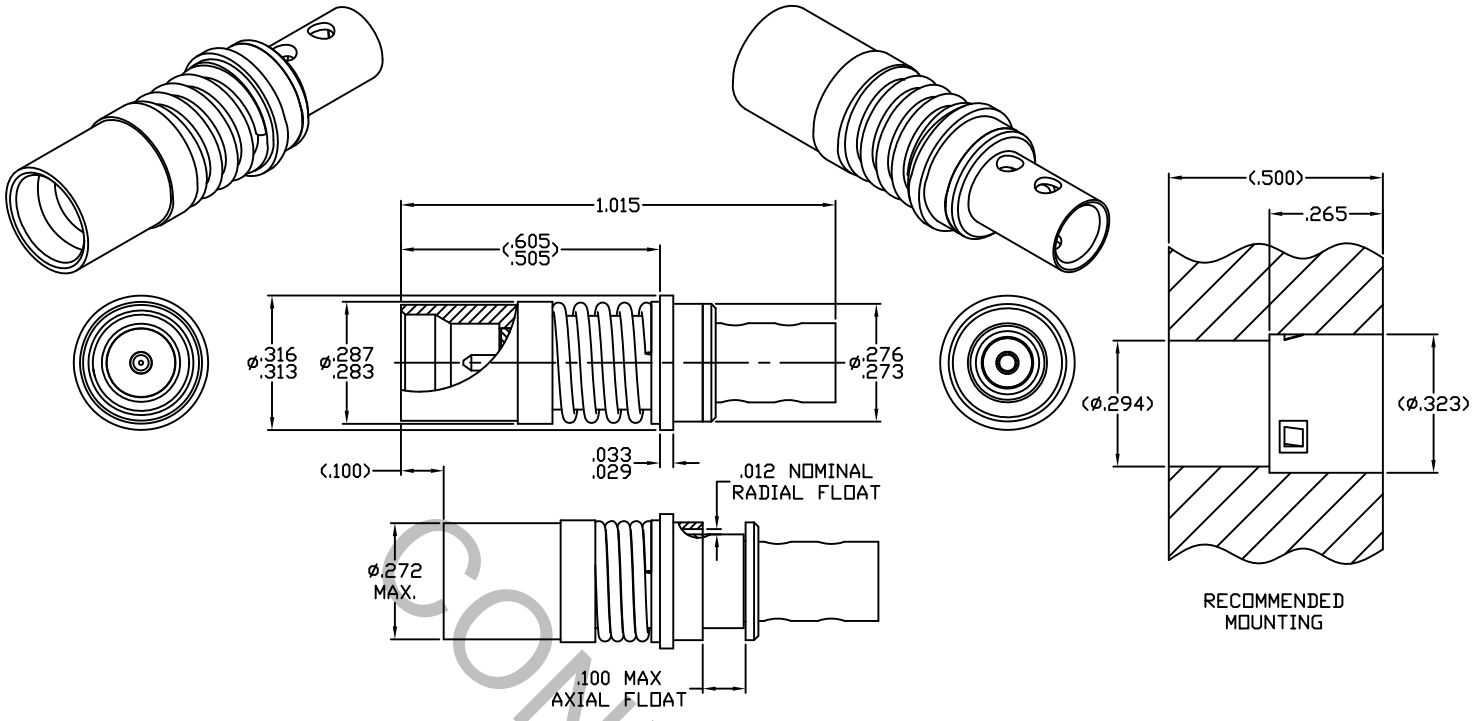
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS PER MIL-STD-348 Fig. 322.1 (BMB PLUG) MODIFIED LENGTH.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❋	1.07 + .008 x FGHz.
INSERTION LOSS: (dB MAX.)	
• INTERFACE GAP (.000 TO .015)	.040 dB x $\sqrt{\text{FGHz.}}$
• INTERFACE GAP (.016 TO .030)	.060 dB x $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	333
RF LEAKAGE (MIN. dB DOWN)	
• INTERFACE BOTTOMED (.000 GAP)	-90 dB - FGHz
• INTERFACE GAP (.001 TO .015)	-75 dB - FGHz
• INTERFACE GAP (.016 TO .030)	-60 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-45° c TO + 125° 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

RoHS
COMPLIANT

1. This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	16-2245	10/6/16	DC
AB	16-2297	10/19/16	DC
BA	18-1406	4/10/18	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

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

dynawave CABLE INCORPORATED
HAVERHILL, MA. 01835

DRAWN DC DATE 10/6/16

APPROVED DC DATE 10/6/16

TITLE
BMB PLUG, FLOATING
REAR MOUNT, (SIZE 8 ARINC),
FOR DF140 LOW LOSS

CODE IDENT. 6DZL5

SHEET 1 OF 2

DWG. NO. 2460-140H-6242

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE — 4.5 LBS.
- MIN. RADIAL TORQUE — N/A

CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) — N/A
- WITHDRAWAL (MIN. OUNCES) — N/A

CONNECTOR DURABILITY (MIN. CYCLES) — 1,000

EXTRACTION TOOL — 9-25000

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL-STD-202, METHOD 102, COND. C (-45° c TO + 125° 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

CONNECTOR BODY, FERRULE & WASHER	STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
SPRING	STAINLESS STEEL PER ASTM-A-313 OR AMS 5688, TYPE 302, SPRING TEMPER
CONTACT	BERYLLIUM COPPER PER ASTM-B-196/B 196-M03, COPPER ALLOY UNS-C-17300, TEMPER TD04
INSULATOR	TEFLON PER ASTM-D-1710-2, TYPE 1, GRADE 1, CLASS B.

6. FINISH

CONNECTOR SOLDER BODY	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 (.000150 MIN. THK.) OVER WOODS OR WATTS NICKEL (.000010 MIN. THK.)
BODY, SPRING, FERRULE & WASHER	PASSIVATE PER AMS-2700, TYPE 2, CLASS 4
CONTACT	GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27 (.000100 MIN. THK) OVER NICKEL PER SAE-AMS-QQ-N-290, CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS-2418 (.000010 MIN. THK.)
INSULATOR	N/A