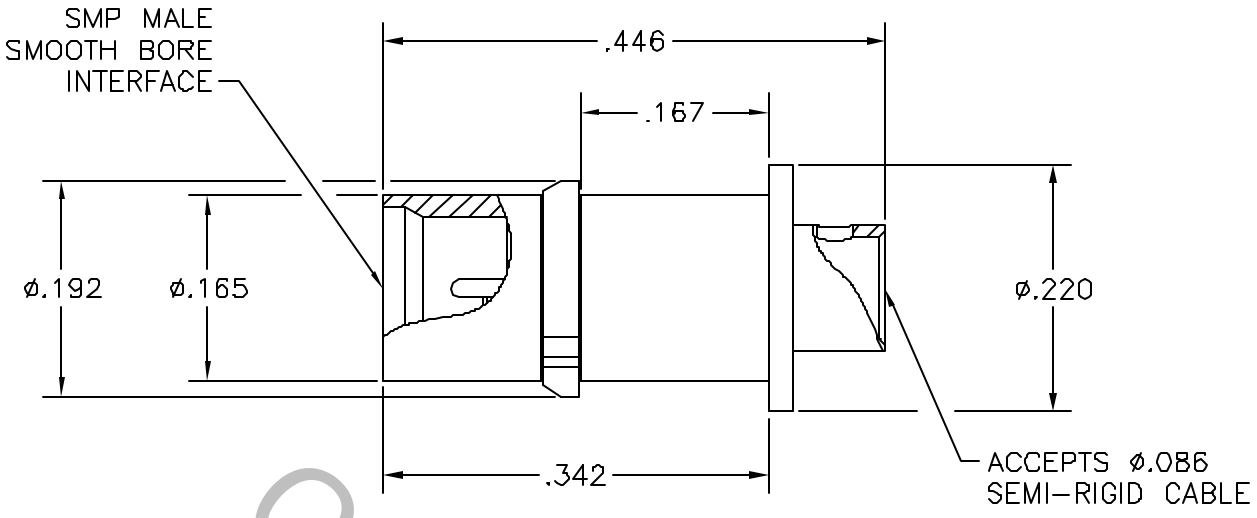
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

1. MATING a.) INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-21-9 AND MIL-STD-348.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz.
VSWR (MAX.) ❁	DC TO 18.0 GHz., 1.20 MAX.
	18.0 TO 26.5 GHz., 1.35 MAX.
	26.5 TO 40.0 GHz., 1.50 MAX.
INSERTION LOSS (dB MAX.) ❁	.05 dB x $\sqrt{FGHz}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	3.0 GHz., -80 dB - FGHz.
	26.5 GHz., -65 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65 ° c TO +200 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	4.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❁ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	03-1636		

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ± .030 .XX ± .010 .XXX ± .005	±1/16"	X° ±1° 0' X° X' ±16'

SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN B.N. DATE 5/13/03

APPROVED DATE

TITLE
SMP, MALE, BULKHEAD
"SNAP-IN" CONNECTOR
FOR SR.086 CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2119-8525-6200

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE — 3.0 LBS
- MIN. RADIAL TORQUE — N/A

CONNECTOR ENGAGEMENT FORCES
- INSERTION (MAX. LBS.) — 2.0 (SMOOTH BORE)
- WITHDRAWAL (MIN. LBS.) — 1.0 (SMOOTH BORE)

CONNECTOR DURABILITY (MIN. MATING) — 1000 (SMOOTH BORE)

CABLE RETENSION (SOLDER) — 50.0 LBS. MIN.

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 (HIGH FREQUENCY)	MIL–STD–202, METHOD 204, COND. D (20 G's)
VIBRATION (RANDOM)	MIL–STD–202, METHOD 214, TEST COND. F.
THERMAL SHOCK	MIL–STD–202, METHOD 107, TEST COND. B, HIGH TEMP. +165° c.
MOISTURE RESISTANCE	MIL–STD–202, METHOD 106, LESS STEP 7b, 1000 MEGOHMS (5 MINUTES).
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 MIN.)
CORONA LEVEL	70,000 FEET.

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5. MATERIAL

CONNECTOR BODY AND PRESS SLEEVE	STAINLESS STEEL PER ASTM A 581, TYPE303 COND. A
CENTER CONTACT AND RETAINING RING	BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER D 4894.

6. FINISH

PRESS SLEEVE	GOLD PER ASTM B 488 TYPE I, CODE C, CLASS 1.25 (.00005 MIN THK.) OVER NICKEL PER QQ–N–290, CLASS 1 (.00015 MIN THK.).
CONNECTOR BODY	PASSIVATED PER QQ–P–35 TYPE VI
CENTER CONTACT	GOLD PER MIL–G–45204, TYPE II, GRADE C, CLASS 1 (.00005–.0001 THK.) OVER NICKEL PER QQ–N–290, CLASS 1 (.00005–.0001 THK.).
RETAINING RING	NICKEL PER QQ–N–290, CLASS 1
INSULATOR	N/A