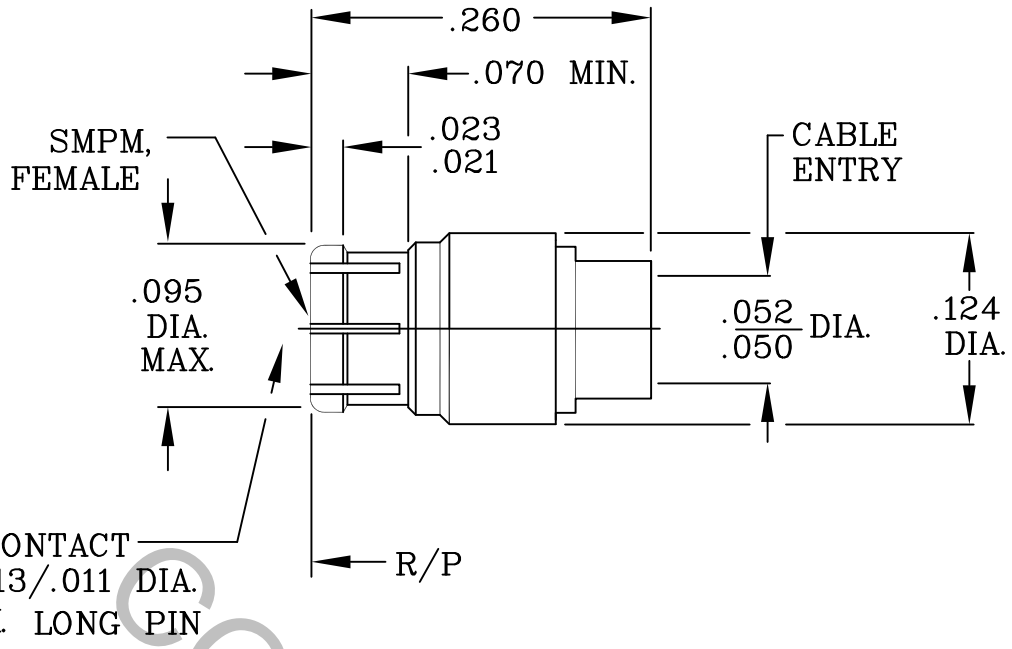
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348, Fig. 328.1 AND DYNAWAVE SPECIFICATION MD-30.

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 $\sqrt{\text{FGHz}}$.
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 +150 ° 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

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	03-1960	8/1/03	DC
AB	16-2003	8/22/16	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.030 .XX ±.010 .XXX ±.005	±1/16"	X°±1° 0' X° X' ±15'

SURFACE ROUGHNESS 63 ✓ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL MA. 01835

DRAWN DC DATE 8/1/03

APPROVED DATE

TITLE SMPM, FEMALE, DIRECT SOLDER TO .047 S.R. CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 3000-4720-5425

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

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

CONNECTOR ENGAGEMENT FORCES
- INSERTION (MAX. LBS.) — 4.5 (FULL DETENT)
- WITHDRAWAL (MIN. LBS.) — 6.5 (FULL DETENT)

CONNECTOR DURABILITY (MIN. MATING) — 100 (FULL DETENT)

CABLE RETENSION (SOLDER) — 20.0 LBS. MIN.

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 (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.

5. MATERIAL

CONNECTOR BODY, CENTER CONTACT, ANTI–ROCK RING AND EMI RING	BERYLLIUM COPPER PER ASTM B196/B 196M–03 COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON, ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

CONNECTOR BODY, CENTER CONTACT, ANTI–ROCK RING AND EMI RING	GOLD PER MIL–G–45204, TYPE II, GRADE C, CLASS 1.27 (.000050 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