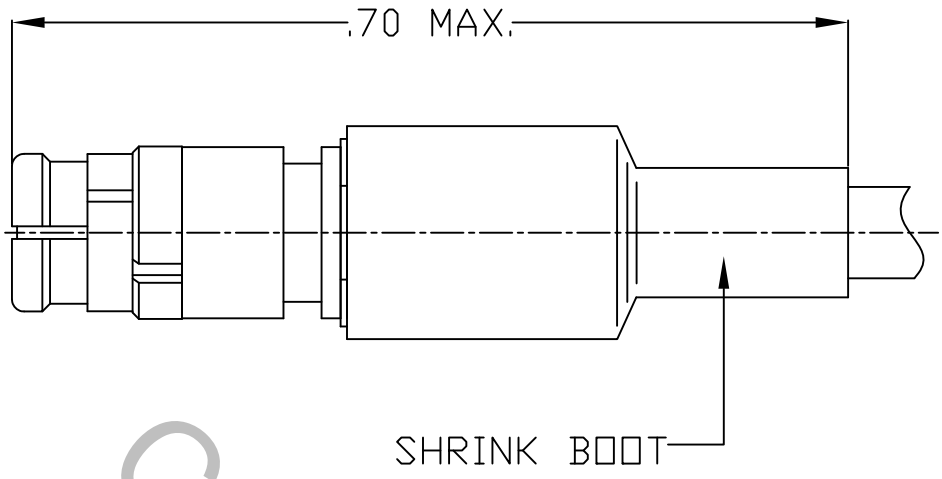
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 326.1 (SMP, JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 3.0 GHz
VSWR (MAX.) ❋	1.05 + .010 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.050 dB x $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	85 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65 ° c TO +150 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	2,500
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.
-	1038	12/93	MB
A	1048	12/93	GL
AA	05-1831	8/19/05	DC
AB	12-1014	1/4/12	TS

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ± .030, .XX ± .010, .XXX ± .005
FRACTIONAL: ± 1/64
ANGULAR: X ° ± 1 °0', X ° X ± 15'
SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN MB DATE 12/93

APPROVED MB DATE 12/93

TITLE
SMP, JACK
CRIMP TO
RG/174,188,316 CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2000-1630-5435

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- MIN. AXIAL FORCE ——— 3.5 LBS.
- MIN. RADIAL TORQUE ——— N/A

CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. LBS.) ——— 10.0
- WITHDRAWAL (MIN. LBS.) ——— 2.0

CONNECTOR DURABILITY (MIN. MATING) ——— 250

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.) (125 VRMS)

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5. MATERIAL

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

6. FINISH

CONNECTOR BODY, EMI RING, ANTI ROCK RING CRIMP SLEEVE	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 0.30 (.000030 MIN. THK.) OVER NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000100 MIN. THK.) OVER COPPER PER AMS–2418 (.000040 MIN. THK.).
CONTACT	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 0.75 (.000030 – .000050 THK.) OVER NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000050 – .000080 THK.) OVER COPPER PER AMS–2418, (.000010 – .00004 THK.).
INSULATOR	N/A