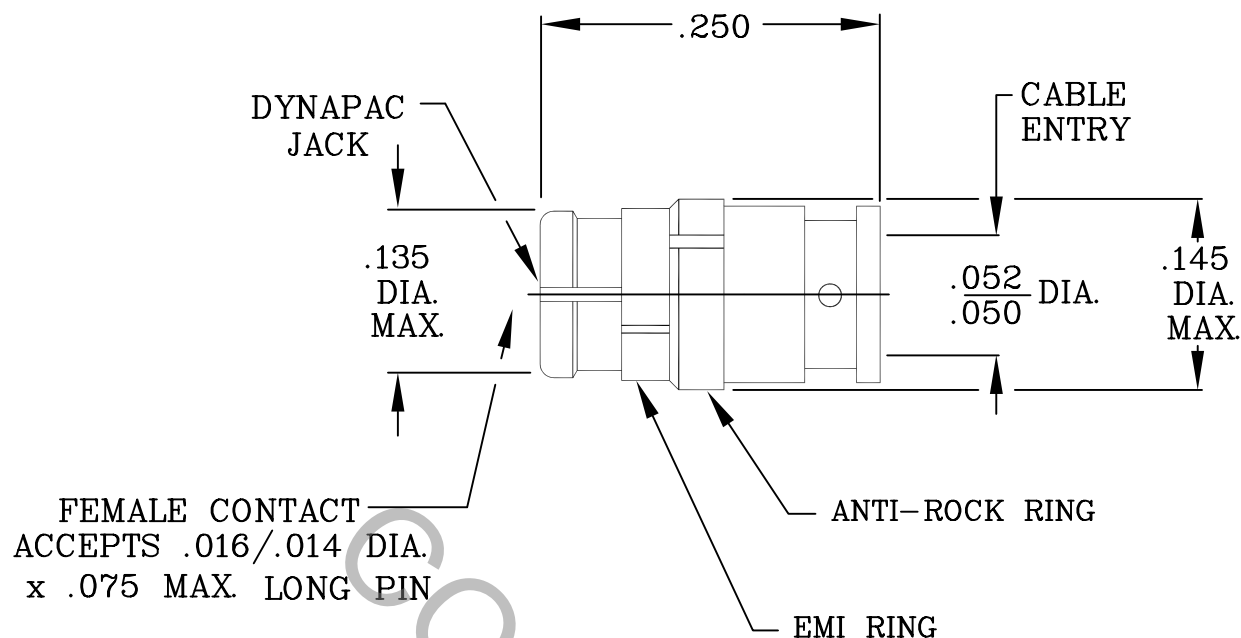


SPECIFICATION CONTROL DRAWING



1. MATING a.) INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-20-8.
b.) DSCC APPROVED CONNECTOR 94008ZCG-1.

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) *	.12 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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA. 01835
				DECIMALS	FRACTIONAL	ANGULAR	
—	1145	4/95	GL	.X ± .030 .XX ± .010 .XXX ± .005	±1/16"	X° ± 1' 0" X° X' ± 15"	
AA	98-0567	6/30/98	TS	SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10.}}$			
				DRAWN GL	DATE 4/95	TITLE "DYNAPAC" DIRECT SOLDER TO .047 S.R. CABLE	
				APPROVED DGG	DATE 4/95		
				CODE IDENT. 2J899	SHEET 1 OF 2		
						DWG. NO. 2000-4720-5425	

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ N/A
- MIN. RADIAL TORQUE _____ N/A

CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. LBS.) _____ 15.0 (FULL DETENT)
- WITHDRAWAL (MIN. LBS.) _____ 5.0 (FULL DETENT)

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

CABLE RETENSION (SOLDER) _____ 50.0 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, _____ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY
ANTI-ROCK RING AND EMI RING No. UNS C17300, TEMPER TD04.

INSULATOR _____ TEFLON PER D 4894.

6. FINISH

CONNECTOR BODY, CENTER CONTACT, _____ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 1
ANTI-ROCK RING AND EMI RING (.00005-.0001 THK.) OVER NICKEL PER QQ-N-290, CLASS 1
(.00005-.0001 THK.).

INSULATOR _____ N/A