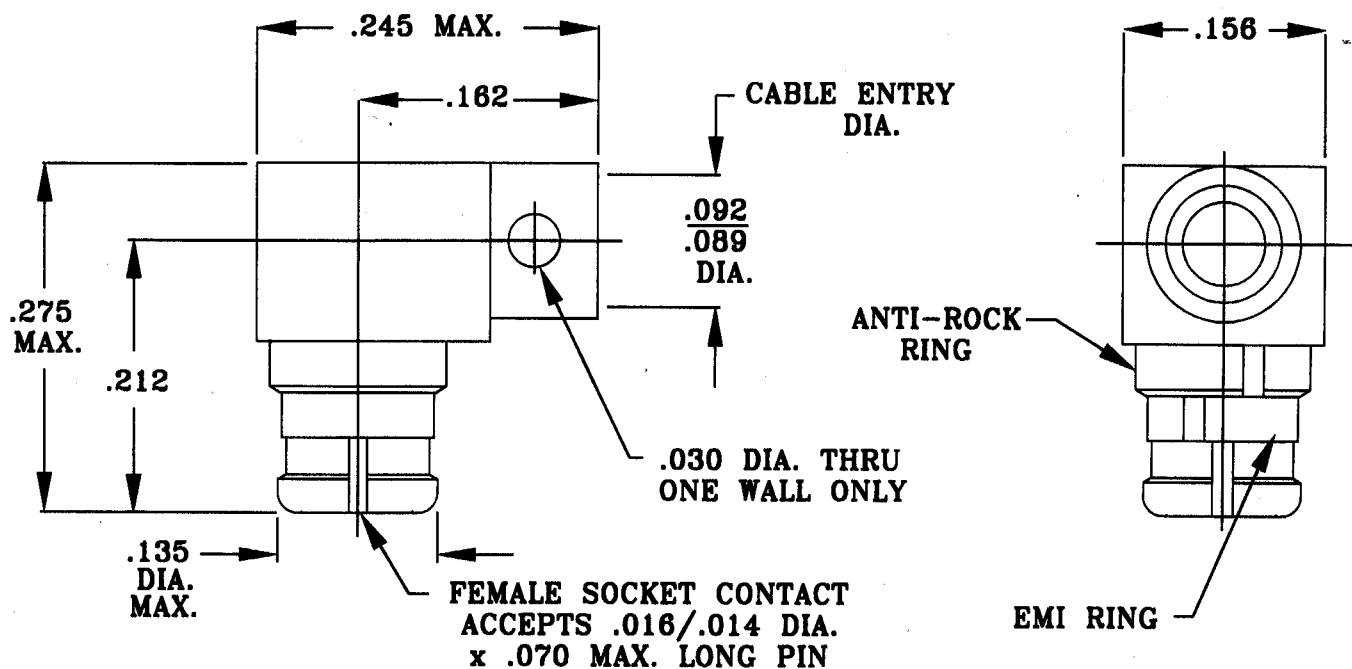


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD 348, Fig. 326-1 AND DYNAWAVE SPECIFICATION MD-20-8.

2. ELECTRICAL

| | | |
|---|-------|---|
| FREQUENCY RANGE GHz | _____ | DC TO 12.5 GHz. |
| VSWR (MAX.) * | _____ | 1.35 |
| INSERTION LOSS (dB MAX.) | _____ | .12 dB x \sqrt{FGHz} . |
| NOMINAL IMPEDANCE (OHMS) | _____ | 50 |
| VOLTAGE RATING (MAX. VRMS) | _____ | 170 |
| RF LEAKAGE (MIN. dB DOWN) | _____ | -80 dB TO 3.0 GHz. -85 dB TO 26.5 GHz. |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | _____ | -65°c TO + 165°c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | _____ | 500 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | _____ | 5,000 |
| CONTACT RESISTANCE | | |
| • CENTER CONTACT (MAX. MILLIOHMS) | _____ | 6.0 |
| • OUTER CONTACT (MAX. MILLIOHMS) | _____ | 2.0 |

* ATTACHED TO APPROPRIATE CABLE/TIME DOMAIN GATED DATA

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES | | | Haverhill, MA 01835 |
|------|---------|---------|------|--------------------------|--------------|-------------|---|
| | | | | DECIMALS | FRACTIONAL | ANGULAR | |
| AA | 98-0005 | 2/4/98 | DGG | .X ± .030 | ± 1/64 | X° ± 1° 0' | TITLE SMP, FEMALE RIGHT ANGLE, DIRECT SOLDER TO .085 S.R. CABLE |
| AB | 98-0491 | 6/11/98 | DGG | .XX ± .010 | | X° X' ± 15' | |
| BA | 98-1043 | 11/4/98 | GL | .XXX ± .005 | | | |
| BB | 02-0235 | 3/29/02 | TS | | | | |
| BC | 03-1319 | 3-7-03 | DS | | | | |
| | | | | CODE IDENT. | SHEET 1 OF 2 | DWG. No. | 2001-8520-5444 |
| | | | | 2J899 | | | |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 1.5 LBS.
- MIN. RADIAL TORQUE _____ N/A

CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. LBS.) _____ 15.0*
 - WITHDRAWAL (MIN. LBS.) _____ 5.0*
- CONNECTOR DURABILITY (MIN. CYCLES) _____ 100*

*FULL DETENT SHROUD

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)

5. MATERIAL

- CONNECTOR BODY, CENTER CONTACT, _____ BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.
- ANTI-ROCK RING AND EMI RING _____
- INSULATOR _____ TEFLON PER ASTM D 4894-91
- CAP _____ BRASS PER ASTM B16, TEMPER H02, ALLOY C36000

6. FINISH

- CONNECTOR BODY, CENTER CONTACT, _____ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 1 (.000050 MIN.)
- ANTI-ROCK RING, EMI RING AND CAP _____ OVER NICKEL PER QQ-N-290 CLASS 1 (.00015 MIN.)
- INSULATOR _____ N/A

 **dynawave**
INCORPORATED

SHEET 2 OF 2

DWG.
NO.

2001-8520-5444

REV.

BC