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3. SPECIFICATIONS (SIGNAL CONTACTS):
   CURRENT RATING ------------------ 3 AMPS MAX
   TEMPERATURE RATING ----------- -55° C TO +125° C
   INSULATION RESISTANCE -------- 5000 MEGOHMS MIN
   DWV AT SEA LEVEL ---------------- 600 VAC
   DWV AT 70,000 FT ALTITUDE --- 150 VAC
   SOLID COPPER (+0.20 / - 0.00)
      1 = 0.5 INCH
      2 = 1.0 INCH
      3 = 0.25 INCH
      4 = 0.125 INCH

4. ADDITIONAL INFORMATION:
   DESIGN AND PERFORMANCE IN GENERAL
   ACCORDANCE WITH M83513 WHERE APPLICABLE.
   FOR OTHER TERMINATIONS, CONTACT CRISTEK.

1. MATERIALS:
   SHELL - ALUMINUM ALLOY OR STAINLESS STEEL
   INSULATOR - GLASS FILLED THERMOPLASTIC
   PIN/SOCKET CONTACT - COPPER ALLOY

2. FINISH:
   SHELL - SEE OPTIONS ABOVE
   PIN/SOCKET CONTACT - GOLD OVER NICKEL

MICRO-D MATERIALS AND FINISHES ARE IAW MIL-DTL-83513 WHERE APPLICABLE
FOR DETAILS SEE MIL SPEC OR WWW.CRISTEK.COM

1. MATERIALS:
   SHELL - STAINLESS STEEL PER ASTM A484 TYPE 303
   INSULATOR - MIL-STD-19509/11 *
   PIN/SOCKET CONTACT - CUPPER ALLOY

2. FINISH:
   SHELL - PASSIVATION (STAINLESS STEEL)
   PIN/SOCKET CONTACT - GOLD OVER NICKEL

MICROWAVE MATERIALS AND FINISHES

1. MATERIALS:
   CONTACT - STAINLESS STEEL PER ASTM A484 TYPE 303
   INSULATOR - MIL-STD-19509/11 *
   PIN/SOCKET CONTACT - COPPER ALLOY

2. FINISH:
   GOLD PER MIL-G-45024, TYPE II, GRADE C, CLASS I
   (.000050/.000100 THICK) OVER NICKEL PLATING PER
   SAE-AMS-QQ-Q-290, CLASS 1.25 (.000050/.00010 THICK)

3. ELECTRICAL REQUIREMENTS:
   NOMINAL IMPEDANCE ------- 50 OHMS
   FREQUENCY RANGE ----------- 26.5 GHz
   VOLTAGE RATING ------------ 325 VRMS MAX
   VSWR --------------------- 1.05 + .008 X FGHz
   INSERTION LOSS ------------- 0.07 X SQRT FGHz
   DWV ---------------------- 500 VRMS MAX
   INSULATION RESISTANCE ------ 1000 MEGOHMS

4. MECHANICAL:
   CONNECTOR DURABILITY ----- 500 CYCLES

5. ENVIRONMENTAL
   TEMPERATURE RATING: -65°C TO +125°C
   VIBRATION: MIL-STD-202, METHOD 204, COND D (20G)
   SHOCK: MIL-STD-202, METHOD 213, COND C (100G)
   CORROSION: MIL-STD-202, METHOD 101, COND B (8% SALT)
   RANDOM VIBRATION: MIL-STD-202, METHOD 214, COND B (15 MIN/AXIS)
   THERMAL SHOCK: MIL-STD-202, METHOD 107, COND B (+165° Hi TEMP)

TOLERANCE: .005 ±.000 .XX ±.01 ANGLE ±1°

MICRO-D METAL SHELL HYBRID COAX

WIRE SIZE (FOR LOW FREQ LINES)
   STRANDED WIRE
      0 = 26 AWG
      1 = 24 AWG
      2 = 28 AWG
   SOLID WIRE
      0 = 25 AWG
      1 = 24 AWG

WIRE COLOR/TYPE (FOR LOW FREQ LINES)
   0 = WHITE STRANDED
   1 = YELLOW STRANDED
   2 = 10 SOLID COLORS REPEATED
   3 = FULL COLOR CODE STRANDED
   9 = SOLID COPPER

CABLE TYPE (FOR RF LINES)
   01 = RD316 (M17/152-00001)
   02 = D-FLEX 105 (DACHSHUND)
   03 = L-FLEX 120 (LABRADOR)
   04 = S-FLEX 110 (GERMAN SHEPARD)
   05 = D-FLEX (DACHSHUND)

TERMINATION (FOR LOW FREQ LINES)
   0000 - SOLDER CUP *
   0001 - EDGE CARD LEADS (25 AWG)
   N000 - NO LOW FREQUENCY LINES
   WIRE TYPE
      STRANDED
         H = HARNESS (MIL-W-16878/4)
      SOLID
         G = GOLD PLATED COPPER
         T = TIN/LEAD PLATED COPPER

FOR OTHER OPTIONS CONTACT CRISTEK

REV C

CRISTEK.COM 888.265.9162
# CABLE ATTENUATION (Db/100ft) VS. FREQUENCY

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## Attenuation vs. Frequency

![Graph showing attenuation vs. frequency for different cable types.](image-url)