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| DESIGNED FOR USE WITH | .141 SR CABLE |
| CABLE ENTRY DIAMETER MINIMUM | |
| HOUSING | .144 |
| CONTACT | .037 |

| REVISIONS | | | |
|-----------|-------------|--------|-------------------|
| REV | DESCRIPTION | DATE | APPROVED |
| 01 0 | RELEASED | 8/2/95 | <i>D. Comello</i> |

DESIGN CONTROL REQUIRED

| ELECTRICAL | MECHANICAL | ENVIRONMENTAL |
|---|--|--|
| Nominal Impedance (Ohms) 50 | Interface Dimensions MIL-STD-348A, Fig. 304.1 | Temperature Rating -65°C TO +125°C |
| Frequency Range (GHz) DC to 18 | Recommended Mating Torque 12 - 15 LBS | Vibration MIL-STD-202, Method 204, Condition D |
| Volt Rating (VRMS MAX) @ Sea Level 599 | Force to Engage and Disengage (In/Lbs MAX) 6.0 | Shock MIL-STD-202, Method 213, Condition I |
| VSWR 1.06 + .007 fGHz | Cable Retention Axial Force (Lbs) 60 | Thermal Shock MIL-STD-202, Method 107, Condition B, Except High Temp 200°C |
| Insertion Loss (dB MAX) .05 √ fGHz | Torque (In/Oz) 55 | Moisture Resistance MIL-STD-202, Method 106, Except Step 7b (Vibration) Shall Be Omitted |
| RF Leakage (dB MIN) -(90 -f(GHz)) | Weight (Grams) TBD | Corrosion - MIL-STD-202, Method 101, Condition B, 5% salt spray |
| Corona, 70,000 Ft (VRMS MIN) 500 | | |
| Dielectric Withstanding Voltage (VRMS MIN) @ Sea Level 2500 | | |
| Contact Resistance (Milliohms MAX) | | |
| Center Contact 1.5 | | |
| Outer Contact 2.0 | | |
| Cable to Housing 2.0 | | |
| RF High Potential @ Sea Level (VRMS MIN @ 5 MHz) 1500 | | |
| I.R.(Megohms MIN) 10,000 | | |

| COMPONENT | MATERIAL | FINISH |
|----------------|--|----------------------------|
| HOUSING | STAINLESS STEEL PER ASTM-A484 AND ASTM-A582, TYPE 303 | GOLD PLATE PER MIL-G-45204 |
| COUPLING NUT | STAINLESS STEEL PER ASTM-A484 AND ASTM-A582, TYPE 303 | PASSIVATE PER ASTM-A380 |
| DIELECTRIC | TFE FLUOROCARBON PER ASTM-D-1457 | N/A |
| CENTER CONTACT | BERYLLIUM COPPER PER ASTM B 196, ALLOY C17300, CONDITION H | GOLD PLATE PER MIL-G-45204 |
| RETAINING RING | PHOSPHOR BRONZE PER QQ-B-750, GRADE B2 | N/A |

| | | | |
|--|---|---|----------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ON | DRAWN BY <i>D. Comello</i> DATE 8/2/95 | AMP Incorporated 140 Fourth Avenue Waltham, MA 02451-7599 | |
| | CHECKED BY | | |
| FRAC. DEC. ANGLES ± 1/64 ±.005 ± ° | APPD BY <i>D. Comello</i> 8/2/95 | AMP TITLE OSN STRAIGHT CABLE PLUG DIRECT SOLDER ATTACHMENT | |
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| | | SCALE 3:1 | REV 01 0 |
| | | SHEET 1 OF 1 | |

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