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| COMPONENT                   | MATERIAL  | FINISH                        |
|-----------------------------|---|-------------------------------|
| HOUSING CAP<br>COUPLING NUT | STAINLESS STEEL PER<br>ASTM-A-484 OR ASTM-A-582<br>TYPE 303     | PASSIVATED PER<br>ASTM-A-380  |
| DIELECTRIC                  | PTFE FLUOROCARBON<br>PER ASTM-D-1457                            | -                             |
| CENTER CONTACT              | BRASS PER ASTM-B-16<br>HALF HARD                                | GOLD PLATED PER<br>ASTM-B-488 |
| GASKET                      | SILICONE RUBBER<br>PER ZZ-R-765                                 | -                             |
| FERRULE                     | COPPER OR BRASS<br>ALLOY, ROCKWELL<br>F65 MAX                   | GOLD PLATED PER<br>ASTM-B-488 |
| RETAINING RING              | BERYLLIUM COPPER PER<br>ASTM-B-194<br>ALLOY C17200, CONDITION H | -                             |

| ENVIRONMENTAL        |  |
|----------------------|--|
| TEMPERATURE RATING:  | -65°C TO +165°C  |
| VIBRATION:           | MIL-STD-202, METHOD 204, CONDITION D                       |
| SHOCK:               | MIL-STD-202, METHOD 213, CONDITION 1                       |
| MOISTURE RESISTANCE: | MIL-STD-202, METHOD 106                                    |
| CORROSION:           | MIL-STD-202, METHOD 101, CONDITION B. 5% SALT SPRAY        |
| THERMAL SHOCK:       | MIL-STD-202, METHOD 107, CONDITION B EXCEPT HIGH TEMP 85°C |

| MECHANICAL                                |  |
|---|--|
| INTERFACE DIMENSIONS:                     | MIL-STD-348A FIG. 310.1                              |
| RECOMMENDED MATING TORQUE:                | 7-10 IN-LBS  |
| FORCE TO ENGAGE & DISENGAGE (IN-LBS MAX): | 2.0  |
| WEIGHT (GRAMS):                           | TBD  |
| MATING CHARACTERISTICS:                   | INSERTION (MAX LBS): N/A<br>WITHDRAWAL (MIN OZ): N/A |
| CABLE RETENTION:                          | AXIAL FORCE (LBS): 10 MIN<br>TORQUE (IN-OZ): N/A     |
| CENTER CONTACT CAPTIVATION:               | AXIAL (LBS): 6.0<br>RADIAL (IN-OZ): N/A              |

| ELECTRICAL   |  |
|--|--|
| NORMAL IMPEDANCE (OHMS):                                 | 50   |
| FREQUENCY RANGE (GHz):                                   | DC TO 12.4   |
| VOLT RATING @ SEA LEVEL (VRMS MAX):                      | 170  |
| VSWR:  | 1.20+0.03f(GHz)  |
| INSERTION LOSS: (dB MAX):                                | .06 $\sqrt{f(\text{GHz})}$   |
| RF LEAKAGE (dB MIN):                                     | -60 @ 2-3 GHz  |
| CORONA 70,000 FT (VRMS MIN):                             | 125  |
| DIELECTRIC WITHSTANDING VOLTAGE (VRMS MIN) AT SEA LEVEL: | 500  |
| I.R. (MEGOHMS MIN):                                      | 5,000  |
| RF HIGH POTENTIAL AT SEA LEVEL (VRMS MIN @ 5 MHz):       | 335  |
| CONTACT RESISTANCE (MILLIOHMS MAX):                      | CENTER CONTACT: 4.0<br>OUTER CONTACT: 2.0<br>CABLE TO HOUSING: 0.5 |

| LOC | DIST | REVISIONS   |      |     |      |
|-----|------|-------------|------|-----|------|
| P   | LTR  | DESCRIPTION | DATE | DWN | APVD |
| DF  | XO   | O RELEASED  | 9-02 | JMK | JL   |

AS SHIPPED TO CUSTOMER

Dimensions:

- 1.375 [34.93] MAX
- .670±.020 [17.02±0.51]
- .535±.020 [13.59±0.51]
- .312 [7.92] HEX

ASSEMBLED VIEW

1  $\phi$ .018 [0.46] LOCKWIRE HOLE, 3 PLACES EQUALLY SPACED.

|  |                           |
|--|---------------------------|
| DESIGNED TO USE<br>RG-178/U OR EQUIVALENT<br>CABLE ENTRY<br>DIAMETER MIN | HOUSING: .037 [0.94]      |
|  | CONTACT SLOT: .041 [1.04] |
|  | FERRULE: .098 [2.49]      |

|  |   |
|--|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |   |
| DIMENSIONS:<br>INCHES [mm]             | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED: |
| 0 PLC ± -                              | 1 PLC ± -                                 |
| 2 PLC ± -                              | 3 PLC ± .005 [0.13]                       |
| 4 PLC ± -                              | ANGLES ± -                                |
| MATERIAL<br>SEE TABLE                  | FINISH<br>SEE TABLE                       |

|                                |   |
|--------------------------------|---|
| DWN<br>J. KAISER<br>9/23/02    | Tyco Electronics Corporation<br>Harrisburg, PA 17105                          |
| CHK<br>J. LIPPERT<br>10-18-02  |   |
| APVD<br>J. LIPPERT<br>10-18-02 | NAME<br>SMA RIGHT ANGLE CABLE PLUG-CRIMP<br>ATTACHMENT (M39012/56B3018) CAT B |
| PRODUCT SPEC                   | SIZE<br>A2  |
| APPLICATION SPEC<br>408-4967   | CAGE CODE<br>00779  |
| WEIGHT<br>TBD                  | DRAWING NO<br>1052163   |
| CUSTOMER DRAWING               | RESTRICTED TO   |
| SCALE<br>5:1                   | SHEET<br>1 OF 1   |
| REV<br>0                       |   |

AMP 1471-9 REV 31MAR2000

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MA/COM # 2037-8018-92

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PART  
NO.

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