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| COMPONENT | MATERIAL | FINISH |
|----------------|---|----------------------------|
| COUPLING NUT | STAINLESS STEEL PER ASTM-A-484 OR ASTM-A-582 TYPE 303 | PASSIVATED PER ASTM-A-380 |
| DIELECTRIC | PTFE FLUOROCARBON PER ASTM-D-1457 | - |
| CENTER CONTACT | BERYLLIUM COPPER PER ASTM-B-194 ALLOY C17200, CONDITION H | GOLD PLATED PER ASTM-B-488 |
| HOUSING CAP | STAINLESS STEEL PER ASTM-A-484 OR ASTM-A-582 TYPE 303 | GOLD PLATED PER ASTM-B-488 |
| GASKET | SILICONE RUBBER PER ZZ-R-765 | - |
| RETAINING RING | BERYLLIUM COPPER PER ASTM-B-194 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 115°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
WITHDRAWAL (MIN OZ): N/A

CABLE RETENTION: AXIAL FORCE (LBS) 30 MIN
TORQUE (IN-OZ): 16.0

CENTER CONTACT CAPTIVATION: AXIAL (LBS): 6.0
RADIAL (IN-OZ): N/A

ELECTRICAL

NORMAL IMPEDANCE (OHMS): 50

FREQUENCY RANGE (GHz): DC TO 12.4

VOLT RATING @ SEA LEVEL (VRMS MAX): 335

VSWR: 1.10+0.01f(GHz)

INSERTION LOSS: (dB MAX): .05 $\sqrt{f(\text{GHz})}$

RF LEAKAGE (dB MIN): -90 @ 2-3 GHz

CORONA 70,000 FT (VRMS MIN): 250

DIELECTRIC WITHSTANDING VOLTAGE (VRMS MIN) AT SEA LEVEL: 1000

I.R. (MEGOHMS MIN): 5,000

RF HIGH POTENTIAL AT SEA LEVEL (VRMS MIN @ 5 MHz): 670

CONTACT RESISTANCE (MILLIOHMS MAX):
CENTER CONTACT: 4.0
OUTER CONTACT: 2.0
CABLE TO HOUSING: 0.5

| LOC | DIST | REVISIONS | | | |
|-----|------|-------------|-------|-----|------|
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
| DF | XO | O RELEASED | 11-02 | JMK | JL |

AS SHIPPED TO CUSTOMER

Dimensions:

- Overall length: $.670 \pm .020$ [17.02 ± 0.51]
- Distance from top to center contact: $.535 \pm .020$ [13.59 ± 0.51]
- Distance from center contact to bottom: $.330$ [8.38]
- Distance from top to housing: $.305 \pm .015$ [7.75 ± 0.38]

Labels:

- CAP
- HOUSING
- CABLE (CUSTOMER SUPPLIED)
- COUPLING NUT .312 [7.92] HEX
- CENTER CONTACT
- DIELECTRIC
- GASKET
- RETAINING RING

ASSEMBLED VIEW

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

| DESIGNED TO USE | |
|--------------------------|-------------|
| RG-405/U OR EQUIVALENT | |
| CABLE ENTRY DIAMETER MIN | |
| HOUSING: | .089 [2.26] |
| CONTACT: | .037 [0.94] |
| - | - |
| - | - |
| - | - |
| - | - |

| DIMENSIONS: | | TOLERANCES UNLESS OTHERWISE SPECIFIED: | |
|-------------|---------------|--|---------------|
| INCHES [mm] | | | |
| 0 PLC | ± - | 0 PLC | ± - |
| 1 PLC | ± - | 1 PLC | ± - |
| 2 PLC | ± - | 2 PLC | ± - |
| 3 PLC | ± .005 [0.13] | 3 PLC | ± .005 [0.13] |
| 4 PLC | ± - | 4 PLC | ± - |
| ANGLES | ± - | ANGLES | ± - |

MATERIAL: SEE TABLE

FINISH: SEE TABLE

| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN | | 10/07/02 | |
|--|--|------------|--|--------------|--|
| CHK | | J. KAISER | | 11-20-02 | |
| APVD | | J. LIPPERT | | 11-20-02 | |
| PRODUCT SPEC | | J. LIPPERT | | 11-20-02 | |
| APPLICATION SPEC | | 408-4844 | | WEIGHT TBD | |
| CUSTOMER DRAWING | | SCALE 5:1 | | SHEET 1 OF 1 | |

1051165-1
PART NO.

tyco Tyco Electronics Corporation
Harrisburg, PA 17105

SMA RIGHT ANGLE CABLE PLUG-DIRECT
SOLDER ATTACHMENT (M39012/80-8005) CAT E

SIZE A2 CAGE CODE 00779 DRAWING NO. 1051165

AMP 1471-9 REV 31MAR2000

MA/COM # 2007-8005-92

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