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COMPONENT	MATERIAL	FINISH
HOUSING CLAMP NUT 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	BRASS PER ASTM-B-16 HALF HARD	GOLD PLATED PER ASTM-B-488
INNER SLEEVE	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	-
FERRULE	COPPER OR BRASS ALLOY, ROCKWELL F65 MAX	GOLD PLATED PER ASTM-B-488
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 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  
WITHDRAWAL (MIN OZ): N/A

CABLE RETENTION: AXIAL FORCE (LBS) 10 MIN  
TORQUE (IN-OZ): N/A

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): 170

VSWR: 1.20+.025f(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: 3.0  
OUTER CONTACT: 2.0  
CABLE TO HOUSING: 0.5

AS SHIPPED TO CUSTOMER

1.030 [26.16] MAX

.722±.020 [18.34±0.51]

.330 [8.38]

.312 [7.92] HEX

.250 [6.35] HEX

FERRULE

CABLE (CUSTOMER SUPPLIED)

CLAMP NUT

HOUSING

COUPLING NUT

DIELECTRIC

CENTER CONTACT

INNER SLEEVE

GASKET

RETAINING RING

ASSEMBLED VIEW

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

DESIGNED TO USE  
RG-178/U OR EQUIVALENT  
CABLE ENTRY  
DIAMETER MIN

HOUSING: N/A

CONTACT: .021 [0.53]

DIELECTRIC: .021 [0.53]

SLEEVE: .036 [0.91]

FERRULE: .098 [2.49]

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
INCHES [mm]

TOLERANCES UNLESS  
OTHERWISE SPECIFIED:

0 PLC ± -

1 PLC ± -

2 PLC ± -

3 PLC ± .005 [0.13]

4 PLC ± -

ANGLES ± -

MATERIAL  
SEE TABLE

FINISH  
SEE TABLE

DWN 8-27-02  
J. KAISER

CHK 10-9-02  
J. LIPPERT

APVD 10-9-02  
J. LIPPERT

PRODUCT SPEC

APPLICATION SPEC

408-4904

WEIGHT TBD

CUSTOMER DRAWING

1051757-1  
PART  
NO.

**tyco**  
Electronics  
Tyco Electronics Corporation  
Harrisburg, PA 17105

NAME  
SMA STRAIGHT CABLE PLUG SOLDER CLAMP  
ATTACHMENT (M39012/55-3006) CAT A

SIZE A2 CAGE CODE 00779 DRAWING NO. 1051757 RESTRICTED TO -

SCALE 5:1 SHEET 1 OF 1 REV B

AMP 1471-9 REV 31MAR2000

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MA/COM # 2031-8006-92

1051757

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