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COMPONENT

MATERIAL

FINISH

HOUSING
CAP
COUPLING NUT

STAINLESS STEEL PER
ASTM-A-484 OR ASTM-A-582
TYPE 303

PASSIVATED PER
ASTM-A-380
—

—
DIELECTRIC
—

PTFE FLUORCARBON
PER ASTM-D-1457
—

—
—
—

—
CENTER
—
CONTACT
—

BRASS PER ASTM-B-16
HALF HARD
—

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

—
—
—

—
—
—

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—

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—
—

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+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
OUTER CONTACT: 2.0
CABLE TO HOUSING: 0.5

LOC

DIST

REVISIONS

DF

X0

P

LTR

DESCRIPTION

DATE

DWN

APVD

O

RELEASED

9-02

JMK

JL

AS SHIPPED TO CUSTOMER

CAP

HOUSING

FERRULE

CABLE
(CUSTOMER SUPPLIED)

COUPLING NUT
.312 [7.92] HEX

CENTER CONTACT
DIELECTRIC
GASKET
RETAINING RING

1.375
[34.93]
MAX

.670±.020
[17.02±0.51]

.535±.020
[13.59±0.51]

ASSEMBLED VIEW

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

HOUSING: .037 [0.94]

CONTACT SLOT: .041 [1.04]

— —

— —

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
J. KAISER
9/24/02

CHK
J.LIPPERT
10-18-02

APVD
J.LIPPERT
10-18-02

PRODUCT SPEC
—

APPLICATION SPEC
408-4846

WEIGHT
TBD

tyco
Electronics

Tyco Electronics Corporation
Harrisburg, PA 17105

NAME
SMA RIGHT ANGLE CABLE PLUG-CRIMP
ATTACHMENT (M39012/56-3125) CAT C

SIZE
A2

CAGE CODE
00779

DRAWING NO
1052201

RESTRICTED TO
—

CUSTOMER DRAWING

SCALE
5:1

SHEET
1

OF
1

REV
0

1052201-1

PART
NO.

AMP 1471-9 REV 31MAR2000

J:\DEPT1733\U.DIES\john_lippert\1052199_1_c.dwg

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