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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) 20 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): 250

VSWR: 1.15+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): 190

DIELECTRIC WITHSTANDING VOLTAGE (VRMS MIN) AT SEA LEVEL: 750

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

RF HIGH POTENTIAL AT SEA LEVEL (VRMS MIN @ 5 MHz): 500

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-188/U OR EQUIVALENT  
CABLE ENTRY  
DIAMETER MIN

HOUSING: .067 [1.70]

CONTACT SLOT: .041 [1.04]

— —

— —

FERRULE: .125 [3.18]

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  
408-4967

WEIGHT  
TBD

CUSTOMER DRAWING

**tyco**  
Electronics

Tyco Electronics Corporation  
Harrisburg, PA 17105

NAME  
SMA RIGHT ANGLE CABLE PLUG-CRIMP  
ATTACHMENT (M39012/56B3119) CAT B

SIZE  
A2

CAGE CODE  
00779

DRAWING NO  
1052194

RESTRICTED TO  
—

SCALE  
5:1

SHEET  
1

OF  
1

REV  
0

1052194-1

PART  
NO.

AMP 1471-9 REV 31MAR2000

J:\DEPT1733\U.DIES\john\_lippert\1052160\_1\_c.dwg

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