

4

3

2

1

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	BRASS PER ASTM-B-16 HALF HARD	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	---
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+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				
P	LTR	DESCRIPTION	DATE	DWN	APVD	
DF	XO	O	RELEASED	9-02	JMK	JL

AS SHIPPED TO CUSTOMER

Dimensions:

- Overall length: 1.125 [28.58] MAX
- Center contact height: .670±.020 [17.02±0.51]
- Center contact diameter: .535±.020 [13.59±0.51]
- Coupling nut diameter: .312 [7.92] HEX

ASSEMBLED VIEW

DESIGNED TO USE RG-178/U OR EQUIVALENT CABLE ENTRY DIAMETER MIN	HOUSING: .037 [0.94]
	CONTACT SLOT: .041 [1.04]
	FERRULE: .099 [2.51]

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		Tyco Electronics Corporation Harrisburg, PA 17105			
CHK J. LIPPERT 10-18-02		NAME SMA RIGHT ANGLE CABLE PLUG-SOLDER ATTACHMENT (M39012/56-3106) CAT A			
APVD J. LIPPERT 10-18-02	PRODUCT SPEC	SIZE A2	CAGE CODE 00779	DRAWING NO 1052179	RESTRICTED TO -
APPLICATION SPEC 408-4932	WEIGHT TBD	SCALE 5:1	SHEET 1	OF 1	REV 0

1052179-1
PART NO.

AMP 1471-9 REV 31MAR2000

J:\DEPT1733\U.DIES\john lippert\1052160_1_c.dwg

MA/COM # 2037-8106-92

1052179

A