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LOC	DIST	REVISIONS					
DF	X0	P	LTR	DESCRIPTION	DATE	DWN	APVD
		A		REV PER 0G3D-0032-03	11-03	JMK	JL

COMPONENT	MATERIAL	FINISH
HOUSING	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-196 OR 197 ALLOY C17300, CONDITION H	GOLD PLATED PER ASTM-B-488
CLAMP NUT	STAINLESS STEEL PER ASTM-A-484 OR ASTM-A-582 TYPE 303	PASSIVATED PER ASTM-A-380
FERRULE	COPPER OR BRASS ALLOY, ROCKWELL F65 MAX	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

AS SHIPPED TO CUSTOMER

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. 310.2

RECOMMENDED MATING TORQUE: 7-10 IN-LBS

FORCE TO ENGAGE & DISENGAGE (IN-LBS MAX): 2.0

WEIGHT (GRAMS): TBD

MATING CHARACTERISTICS:

INSERTION (MAX LBS)	2
WITHDRAWAL (MIN OZ)	1

CABLE RETENTION:

AXIAL FORCE (LBS)	10
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:  $1.20 + 0.025f(\text{GHz})$

INSERTION LOSS: (dB MAX):  $.06 \sqrt{f(\text{GHz})}$

RF LEAKAGE (dB MIN): -60 @ 2-3GHz

CORONA 70,000 FT (VRMS MIN): 125

DIELECTRIC WITHSTANDING VOLTAGE (VRMS MIN) AT SEA LEVEL: 500

I.R. (MEGOHMS MIN): 5000

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

Dimensions:

- Overall length: .960 [24.38] MAX
- Center contact length: .590±.020 [14.98±0.51]
- Clamp nut length: .250 [6.35] HEX
- Inner sleeve length: .312 [7.92] HEX
- Thread: .250-36 UNS-2A

Labels:

- CENTER CONTACT
- INNER SLEEVE
- DIELECTRIC
- HOUSING
- FERRULE
- CABLE (CUSTOMER SUPPLIED)
- CLAMP NUT

ASSEMBLED VIEW

DESIGNED TO USE RG-178/U OR EQUIVALENT

CABLE ENTRY DIAMETER MIN

HOUSING: N/A

CONTACT: N/A

DIELECTRIC: .013 [0.33]

INNER SLEEVE: .037 [0.94]

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	± -
FINISH	SEE TABLE

MATERIAL: SEE TABLE

DWN: J. KAISER 9/10/02

CHK: J. LIPPERT 10-8-02

APVD: J. LIPPERT 10-8-02

PRODUCT SPEC

APPLICATION SPEC: 408-8741

WEIGHT: TBD

CUSTOMER DRAWING

SCALE: 5:1

SHEET: 1 OF 1

REV: A

1090174-1 PART NO.

tyco Electronics Tyco Electronics Corporation Harrisburg, PA 17105

NAME: SMA STRAIGHT CABLE JACK-SOLDER ATTACHMENT (M39012/57-3006) CAT A

SIZE: A2 CAGE CODE: 00779 DRAWING NO: 1090174 RESTRICTED TO: -

AMP 1471-9 REV 31MAR2000

MA/COM # 2032-8006-92

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