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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	

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): 20 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+0.02f(GHz)
INSERTION LOSS: (dB MAX):	.06 $\sqrt{f(\text{GHz})}$
RF LEAKAGE (dB MIN):	-60 @ 2-3GHz
CORONA 70,000 FT (VRMS MIN):	190
DIELECTRIC WITHSTANDING VOLTAGE (VRMS MIN) AT SEA LEVEL:	750
I.R. (MEGOHMS MIN):	10,000
RF HIGH POTENTIAL AT SEA LEVEL (VRMS MIN @ 5 MHz):	500
CONTACT RESISTANCE (MILLIOHMS MAX):	CENTER CONTACT: 3.0 OUTER CONTACT: 2.0 CABLE TO HOUSING: 0.5

AS SHIPPED TO CUSTOMER

ASSEMBLED VIEW

DESIGNED TO USE	
RG-174/U OR EQUIVALENT	
CABLE ENTRY DIAMETER MIN	
HOUSING:	N/A
CONTACT:	N/A
DIELECTRIC:	.021 [0.53]
INNER SLEEVE:	.066 [1.68]
FERRULE:	.127 [3.23]

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	8-28-02
CHK	J. LIPPERT	10-8-02
APVD	J. LIPPERT	10-8-02
PRODUCT SPEC		
APPLICATION SPEC		
408-8741		
WEIGHT	TBD	
CUSTOMER DRAWING		

1051900-1		PART NO.	
Tyco Electronics Corporation Harrisburg, PA 17105			
NAME			
SMA STRAIGHT CABLE JACK-SOLDER ATTACHMENT (M39012/57-3007) CAT A			
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C=1051900	-
SCALE	5:1	SHEET	1 OF 1
REV	C		

AMP 1471-9 REV 31MAR2000

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MA/COM # 2032-8007-92

1051900

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