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COMPONENT	MATERIAL	FINISH
HOUSING 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
CLAMP NUT INNER SLEEVE	STAINLESS STEEL PER ASTM-A-484 OR ASTM-A-582 TYPE 303	PASSIVATED PER ASTM-A-380
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	-
REAR DIELECTRIC	NYLON OR ZYTEL#101 PER MIL-M-20693A	-

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+.025f(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:	3.0
OUTER CONTACT:	2.0
CABLE TO HOUSING:	0.5

LOC	DIST	REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD
DF	X0				
B		REV PER 0423-02	8-02	JMK	JL

AS SHIPPED TO CUSTOMER

1.250 [31.75] MAX

.722±.020 [18.34±0.51]

.330 [8.38]

FERRULE

CABLE (CUSTOMER SUPPLIED)

CLAMP NUT .250 [6.35] HEX

HOUSING

COUPLING NUT

DIELECTRIC

CENTER CONTACT

INNER SLEEVE

GASKET

RETAINING RING

.312 [7.92] HEX

ASSEMBLED VIEW

1  $\phi$ .018 [0.46] LOCKWIRE HOLE, 3 PLACES EQUALLY SPACED.

DESIGNED TO USE RG-178/U OR EQUIVALENT CABLE ENTRY DIAMETER MIN
HOUSING: N/A
CONTACT: .021 [0.53]
CLAMP NUT: .179 [4.55]
SLEEVE: .101 [2.56]
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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 8-27-02	 Tyco Electronics Corporation Harrisburg, PA 17105
CHK J. LIPPERT 10-9-02	
APVD J. LIPPERT 10-9-02	
NAME SMA STRAIGHT CABLE PLUG CRIMP ATTACHMENT (M39012/55-3025) CAT C	RESTRICTED TO
SIZE A2	CAGE CODE 00779
DRAWING NO 1051780	SCALE 5:1
WEIGHT TBD	SHEET 1 OF 1
CUSTOMER DRAWING	REV B

1051780-1  
PART  
NO.

AMP 1471-9 REV 31MAR2000

MA/COM # 2031-8025-92

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