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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 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
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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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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): 40 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):	335
VSWR:	1.15+.01f(GHz)
INSERTION LOSS: (dB MAX):	.06 $\sqrt{f(\text{GHz})}$
RF LEAKAGE (dB MIN):	-60 @ 2-3 GHz
CORONA 70,000 FT (VRMS MIN):	250
DIELECTRIC WITHSTANDING VOLTAGE (VRMS MIN) AT SEA LEVEL:	1000
I.R. (MEGOHMS MIN):	5,000
RF HIGH POTENTIAL AT SEA LEVEL (VRMS MIN @ 5 MHz):	670
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	XO	B	REV PER 0G3D-0423-02	9-02	JMK JL

AS SHIPPED TO CUSTOMER

1.375 [34.93] MAX

.570±.020 [14.48±0.51]

.330 [8.38]

FERRULE

DIELECTRIC CENTER CONTACT GASKET

RETAINING RING

COUPLING NUT

.312 [7.92] HEX

HOUSING

CABLE (CUSTOMER SUPPLIED)

ASSEMBLED VIEW

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

DESIGNED TO USE	
RG-303/U OR EQUIVALENT	
CABLE ENTRY DIAMETER MIN	
HOUSING:	.121 [3.07]
CONTACT:	.039 [0.99]
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FERRULE:	.202 [5.13]

DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:	
INCHES [mm]			
		0 PLC	± -
		1 PLC	± -
		2 PLC	± -
		3 PLC	± .005 [0.13]
		4 PLC	± -
		ANGLES	± -
MATERIAL	SEE TABLE	FINISH	SEE TABLE

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN		9/09/02	
		J. KAISER			
		CHK J.LIPPERT		10-09-02	
		APVD J.LIPPERT		10-9-02	
		PRODUCT SPEC			
		APPLICATION SPEC		408-4935	
		WEIGHT		TBD	
		CUSTOMER DRAWING			
SCALE	5:1	SHEET	1 OF 1	REV	B

1051778-1  
PART NO.

tyco Electronics		Tyco Electronics Corporation	
		Harrisburg, PA 17105	
NAME		SMA STRAIGHT CABLE PLUG CRIMP ATTACHMENT (M39012/55B3024) CAT B	
SIZE	A2	CAGE CODE	00779
DRAWING NO	1051778	RESTRICTED TO	-

AMP 1471-9 REV 31MAR2000

MA/COM # 2031-8024-92

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