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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

AS SHIPPED TO CUSTOMER

Labels: DIELECTRIC, CENTER CONTACT, INNER SLEEVE, GASKET, RETAINING RING, COUPLING NUT, HOUSING, FERRULE, CLAMP NUT, CABLE (CUSTOMER SUPPLIED).

Dimensions: 1.250 [31.75] MAX, .722±.020 [18.34±0.51], .330 [8.38], .312 [7.92] HEX, .250 [6.35] HEX.

ASSEMBLED VIEW

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 ± -	
MATERIAL SEE TABLE	FINISH SEE TABLE

DWN J. KAISER 8-27-02
CHK J. LIPPERT 10-9-02
APVD J. LIPPERT 10-9-02
PRODUCT SPEC
APPLICATION SPEC
408-4933
WEIGHT TBD
CUSTOMER DRAWING

1051810-1 PART NO.	
Tyco Electronics Corporation Harrisburg, PA 17105	
SMA STRAIGHT CABLE PLUG CRIMP ATTACHMENT (M39012/55-3125) CAT C	
SIZE A2	CAGE CODE 00779
DRAWING NO. 1051810	RESTRICTED TO —
SCALE 5:1	SHEET 1 OF 1
REV 0	

AMP 1471-9 REV 31MAR2000

MA/COM # 2031-8125-92

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