

4

3

2

1

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION N/A, N/A

© COPYRIGHT N/A BY TYCO ELECTRONICS CORPORATION. ALL RIGHTS RESERVED.

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

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 ϕ .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]

— —

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 8-27-02
J. KAISER

CHK 10-9-02
J. LIPPERT

APVD 10-9-02
J. LIPPERT

PRODUCT SPEC

APPLICATION SPEC

408-4933

WEIGHT TBD

CUSTOMER DRAWING

1051780-1
PART
NO.

tyco
Electronics
Tyco Electronics Corporation
Harrisburg, PA 17105

NAME
SMA STRAIGHT CABLE PLUG CRIMP ATTACHMENT
(M39012/55-3025) CAT C

SIZE A2 CAGE CODE 00779 DRAWING NO. 1051780 RESTRICTED TO

SCALE 5:1 SHEET 1 OF 1 REV B

AMP 1471-9 REV 31MAR2000

MA/COM # 2031-8025-92

J:\DEPT1733\U.DIES\john lippert\1051780_1_c.dwg

1051780

A