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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

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

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) 45 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

DF

X0

P

LTR

DESCRIPTION

DATE

DWN

APVD

B

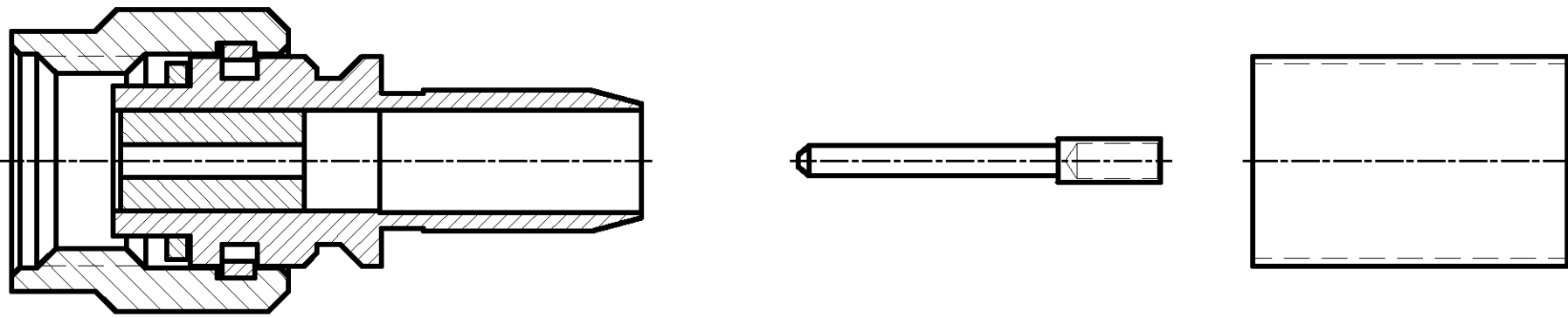
REV PER 0G3D-0423-02

9-02

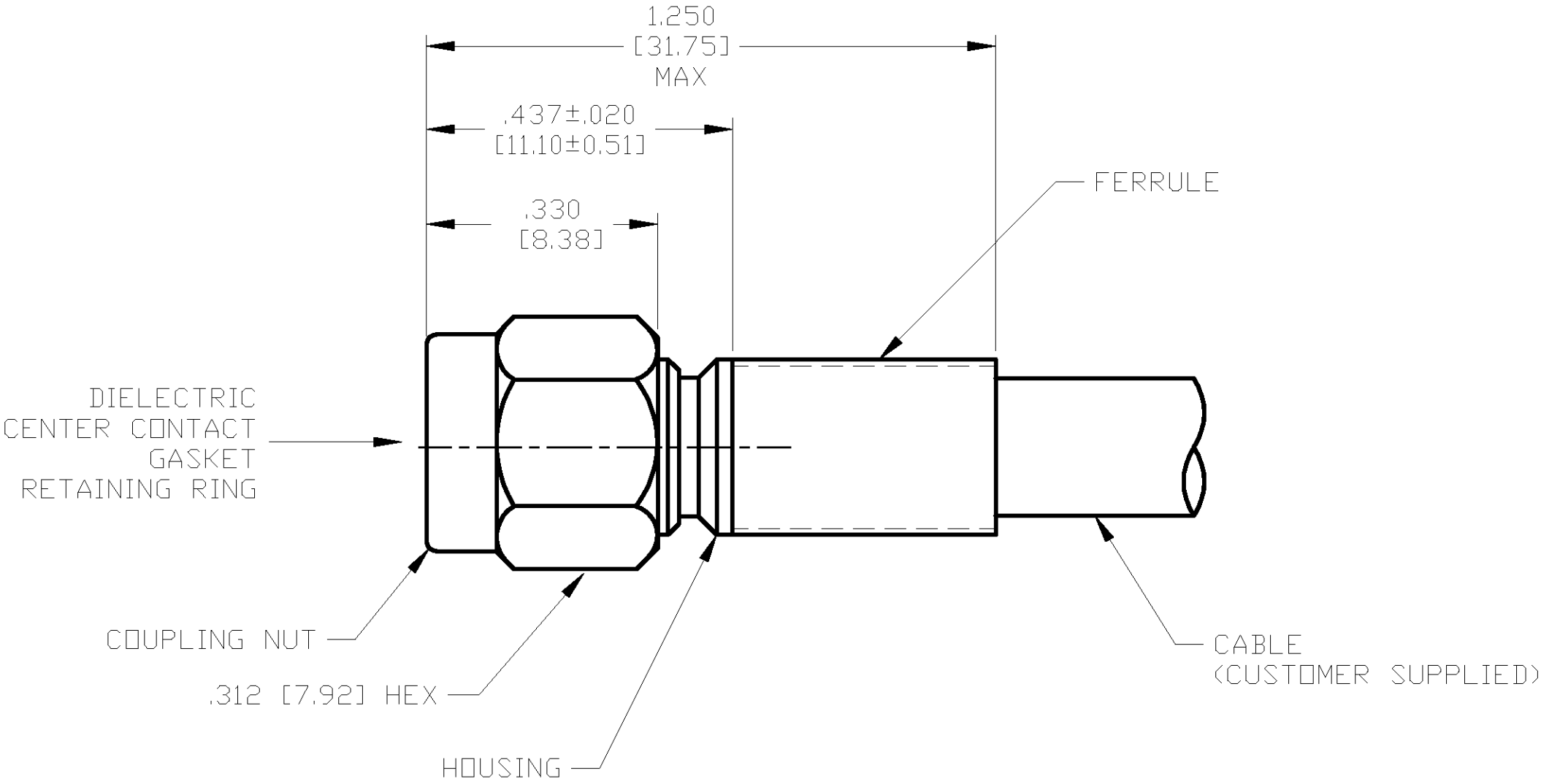
JMK

JL

AS SHIPPED TO CUSTOMER



ASSEMBLED VIEW



DESIGNED TO USE
RG-223/U OR EQUIVALENT
CABLE ENTRY
DIAMETER MIN

HOUSING: .119 [3.02]

CONTACT: .041 [1.04]

FERRULE: .216 [5.48]

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
9-04-02

CHK
J.LIPPERT
10-9-02

APVD
J.LIPPERT
10-9-02

PRODUCT SPEC

APPLICATION SPEC
408-4936

WEIGHT
TBD

CUSTOMER DRAWING

tyco
Electronics

Tyco Electronics Corporation
Harrisburg, PA 17105

NAME
SMA STRAIGHT CABLE PLUG CRIMP
ATTACHMENT (M39012/55B3116) CAT B

SIZE
A2

CAGE CODE
00779

DRAWING NO
1051801

RESTRICTED TO

SCALE
5:1

SHEET
1

OF
1

REV
B

1051801-1

PART
NO.

AMP 1471-9 REV 31MAR2000

J:\DEPT1733\U.DIES\john_lippert\1051801_1_c.dwg

MA/COM # 2031-8116-92

Mouser Electronics

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[TE Connectivity:](#)

[1051801-1](#)