

THIS DRAWING IS UNPUBLISHED.

RELEASED FOR PUBLICATION

© COPYRIGHT BY TYCO ELECTRONICS CORPORATION. ALL RIGHTS RESERVED.

DESIGNED FOR USE WITH
.085 DIA S.R. CABLE
CABLE ENTRY DIAMETER
MINIMUM

CONTACT

.021

HOUSING

.089

LOC

AJ

DIST

00

REVISIONS

P

LTR

DESCRIPTION

DATE

DWN

APVD

B

REV PER ECO 07-004710

3/12/2007

DW

KW

REF PLANE

.320

8.1

REF

OSM PLUG

.120

3.0

DIA

.312

7.9

HEX

#.020

.437

11.1

ELECTRICAL

Nominal Impedance (Ohms) 50

Frequency Range (GHz) DC to 18.0

Volt Rating (VRMS MAX)
@ Sea Level 335

VSWR 1.05 + .005f(GHz)

Insertion Loss (dB MAX) .03 f(GHz)

RF Leakage (dB MIN) -(90-f(GHz))

Corona, 70,000 Ft (VRMS MIN) 250

Dielectric Withstanding Voltage
(VRMS MIN) @ Sea Level 1000

Contact Resistance (Milliohms MAX)
Center Contact 2.0
Outer Contact 2.0
Cable to Housing 0.5

RF High Potential @ Sea Level
(VRMS MIN @ 5 MHz) 670

I.R.(Megohms MIN) 10,000

MECHANICAL

Interface Dimensions MIL-STD-348,
Fig. 310.1

Recommended Mating
Torque 7 to 10 in-LBs

Mating Characteristics:
Insertion (MAX Lbs) N/A
Withdrawal (MIN Oz) N/A

Force to Engage and
Disengage (In/Lbs MAX) 2.0

Center Contact Captivation
Axial (Lbs) N/A
Radial (In/Oz) N/A

Cable Retention
Axial Force (Lbs) 30
Torque (In/Oz) 16

Weight (Grams) T.B.D.

ENVIRONMENTAL

TEMPERATURE RATING -65°C TO 105°C

Vibration MIL-STD-202, Method
204, Condition D

Shock MIL-STD-202, Method 213,
Condition I

Thermal Shock MIL-STD-202,
Method 107, Condition B,
EXCEPT HIGH TEMP 115°C

Moisture Resistance MIL-STD-202,
Method 106

Corrosion - MIL-STD-202, Method
101, Condition B, 5% salt spray

.XXX = in
XX.X = mm

HOUSING

STAINLESS STEEL PER
ASTM-A484 AND ASTM-A582, TYPE 303

GOLD PLATE PER
MIL-G-45204

COUPLING NUT

STAINLESS STEEL PER
ASTM-A484 AND ASTM-A582, TYPE 303

PASSIVATE PER
ASTM-A380

DIELECTRIC

TFE FLUOROCARBON PER
ASTM-D-1457

N/A

CENTER CONTACT

BERYLLIUM COPPER PER
ASTM B 196, ALLOY
C17300, CONDITION H
OR BRASS PER
ASTM-B-16

GOLD PLATE PER
MIL-G-45204

RETAINING RING

BERYLLIUM COPPER PER
ASTM B 194, ALLOY
C17200, CONDITION H

N/A

GASKET

SILICONE RUBBER PER
ZZ-R-765

N/A

COMPONENT

MATERIAL

FINISH

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
INCHES

0 PLC ± -

1 PLC ± -

2 PLC ± -

3 PLC ± .005

4 PLC ± -

ANGLES ± 1°

MATERIAL

-

FINISH

-

DWN

DRJ

11/1/76

CHK

RBJ

4/13/77

APVD

RNF

4/14/77

PRODUCT SPEC

-

APPLICATION SPEC

-

WEIGHT

-

CUSTOMER DRAWING

tyco

Electronics

Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME

OSM STRAIGHT CABLE PLUG
DIRECT SOLDER ATTACHMENT

-

SIZE

A2

CAGE CODE

00779

DRAWING NO

C=1050770

RESTRICTED TO

-

SCALE

5:1

SHEET

1 of 1

REV

B

1050770-1

PART NUMBER

AMP 1471-9 REV 31MAR2000