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DESIGNED FOR USE WITH
.141 DIA S.R. CABLE

CABLE ENTRY DIAMETER
MINIMUM

CONTACT

.039

HOUSING

.144

LOC

DIST

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	B	REV PER ECO 07-004710	3/14/2007	DW	KW

REF PLANE

.320
(8.1mm)

REF

OSM PLUG

.180
(4.6mm) DIA

.312 HEX
(7.9 mm)

.440 REF
(11.2mm)

ELECTRICAL	MECHANICAL	ENVIRONMENTAL
Nominal Impedance (Ohms) 50	Interface Dimensions MIL-STD-348, Fig. 310.1	TEMPERATURE RATING -65°C TO 105°C
Frequency Range (GHz) DC to 18.0	Recommended Mating	Vibration MIL-STD-202, Method 204, Condition D
Volt Rating (VRMS MAX) @ Sea Level 500	Torque 7 to 10 in-LBs	Shock MIL-STD-202, Method 213, Condition I
VSWR 1.05 + .008f(GHz)	Mating Characteristics:	Thermal Shock MIL-STD-202, Method 107, Condition B, EXCEPT HIGH TEMP 115°C
Insertion Loss (dB MAX) .03 √f(GHz)	Insertion (MAX Lbs) N/A	Moisture Resistance MIL-STD-202, Method 106,
RF Leakage (dB MIN) -(90-f(GHz)	Withdrawal (MIN Oz) N/A	Corrosion - MIL-STD-202, Method 101, Condition B, 5% salt spray
Corona, 70,000 Ft (VRMS MIN) 375	Force to Engage and Disengage (In/Lbs MAX) 2.0	
Dielectric Withstanding Voltage (VRMS MIN) @ Sea Level 1000	Center Contact Captivation	
Contact Resistance (Milliohms MAX)	Axial (Lbs) N/A	
Center Contact 3.0	Radial (In/Oz) N/A	
Outer Contact 2.0	Cable Retention	
Cable to Housing 0.5	Axial Force (Lbs) 60	
RF High Potential @ Sea Level (VRMS MIN @ 5 MHz) 1000	Torque (In/Oz) 55	
I.R.(Megohms MIN) 5,000	Weight (Grams) T.B.D.	

COMPONENT	MATERIAL	FINISH
HOUSING	STAINLESS STEEL PER ASTM-A484 AND ASTM-A582, TYPE 303	GOLD PLATE PER MIL-G-45204 OVER NICKEL PLATE PER QQ-N-290
COUPLING NUT	STAINLESS STEEL PER ASTM-A484 AND ASTM-A582, TYPE 303	PASSIVATE PER ASTM-A-380
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 OVER COPPER PLATE PER MIL-C-14550
RETAINING RING	BERYLLIUM COPPER PER ASTM B 194, ALLOY RNF C17200, CONDITION H	N/A
GASKET	SILICONE RUBBER PER ZZ-R-765	N/A

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC	±	-
1 PLC	±	-
2 PLC	±	-
3 PLC	±	.005
4 PLC	±	-
ANGLES	±	1°

MATERIAL

-

FINISH

-

DWN JPD 8/31/76

CHK RNF 9/7/76

APVD RNF 9/7/76

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=1050525

RESTRICTED TO -

SCALE 5:1

SHEET 1 of 1

REV B