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CABLE ENTRY DIAMETER MINIMUM	
CONTACT	.021
HOUSING	.066
FERRULE	.126

LOC	DIST	REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD
AJ	00	C2	REVISED PER ECO-11-005033	01APR11	RK HMR

Technical drawing of an OSM straight cable solder attachment. The drawing shows a cross-section of the assembly with the following dimensions and labels:

- Overall length: 1.187 MAX (30.1mm)
- Length from REF PLANE to center of contact: .690 REF (17.5mm)
- Length from REF PLANE to center of ferrule: .575 REF (14.6mm)
- Center contact diameter: .312 HEX (7.9mm)
- Labels: OSM PLUG, HEAT SHRINK TUBING

1	BRASS
2	STAINLESS STEEL
3	BERYLLIUM COPPER
4	PTFE
5	SILICONE RUBBER
6	GOLD PLATE
7	NICKEL PLATE
8	PASSIVATE
9	POLYOLEFIN COMPOUND

ELECTRICAL	MECHANICAL	ENVIRONMENTAL
Nominal Impedance (Ohms) 50	Interface Dimensions MIL-STD-348A, Fig. 310.1	TEMPERATURE RATING -65°C TO +165°C
Frequency Range (GHz) DC to 12.4	Recommended Mating Torque 7 TO 10 INCH/LBS	DURABILITY:500 CYCLES
Volt Rating (VRMS MAX) @ Sea Level 250	Mating Characteristics:	.XXX = in (XX.X) = mm
VSWR 1.15 + .02F(GHZ)	Insertion (MAX Lbs) N/A	
Insertion Loss (dB MAX) .06 √ F(GHZ)@6GHZ	Withdrawal (MIN Oz) N/A	
RF Leakage (dB MIN) -60@ 6 to 8 GHZ	Force to Engage and Disengage (In/Lbs MAX) 2.0	
Corona, 70,000 Ft (VRMS MIN) 190	Center Contact Captivation	
Dielectric Withstanding Voltage (VRMS MIN) @ Sea Level 750	Axial (Lbs) N/A	
Contact Resistance (Milliohms MAX)	Radial (In/Oz) N/A	
Center Contact 5.0	Cable Retention	
Outer Contact 3.0	Axial Force (Lbs) 20	
Cable to Housing 0.5	Torque (In/Oz) N/A	
RF High Potential @ Sea Level (VRMS MIN @ 5 MHz) 500	Weight (Grams) 2.7	
I.R.(Megohms MIN) 5000		

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9	2 6	2 6	4	1 6	1 6	3	5	1051643-1
SHRINK TUBING	HOUSING	COUPLING NUT	DIELE-CTRIC	CENTER CONTACT	FERRULE	RETAINING RING	GASKET	PART NO.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN DRF 10/12/76		
DIMENSIONS: INCHES		CHK KWW 2/17/77		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD BWC 2/18/77	NAME	
0 PLC ± -		PRODUCT SPEC	OSM STRAIGHT CABLE	
1 PLC ± -		APPLICATION SPEC	PLUG SOLDER ATTACHMENT	
2 PLC ± -		408-4756	SIZE A2	CAGE CODE 00779
3 PLC ± .005		WEIGHT -	DRAWING NO C=1051643	RESTRICTED TO -
4 PLC ± ± 1°		CUSTOMER DRAWING	SCALE 5:1	SHEET 1 of 1
MATERIAL -		FINISH -	REV C2	

1471-9 (3/11)

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