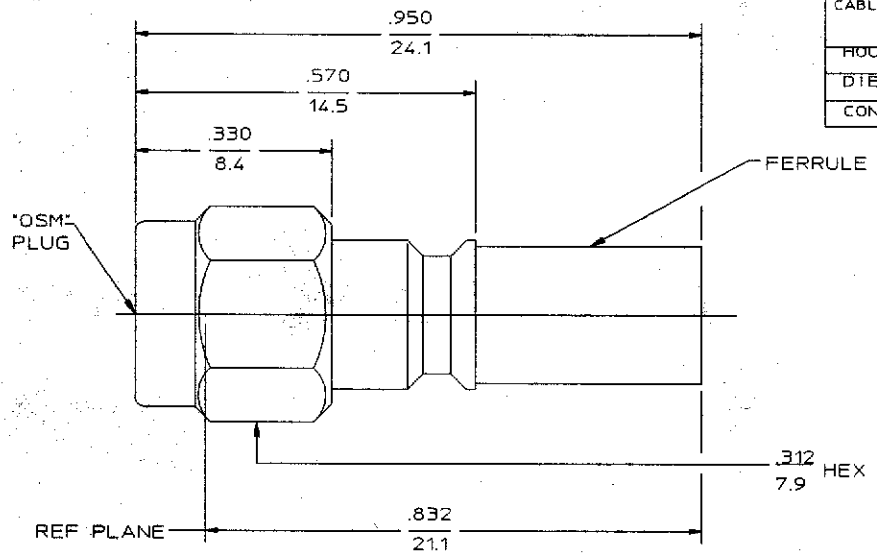

DESIGNED FOR USE WITH RG-142/U	
CABLE ENTRY DIAMETER MINIMUM	
HOUSING	.121
DIELECTRIC	.052
CONTACT	.040

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
01_0	RELEASED	11/6/96	

ELECTRICAL	
Nominal Impedance (Ohms)	50
Frequency Range (GHz) DC to	12.4
Volt Rating (VRMS MAX)	
@ Sea Level	335
VSWR	1.15 + 0.01f(GHz)
Insertion Loss (dB MAX)	$.06\sqrt{f}$GHz
RF Leakage (dB MIN)	-60
Corona, 70,000 Ft (VRMS MIN)	250
Dielectric Withstanding Voltage (VRMS MIN) @ Sea Level	1,000
Contact Resistance (Milliohms MAX)	
Center Contact	3.0
Outer Contact	2.0
Cable to Housing	0.5
RF High Potential @ Sea Level (VRMS MIN @ 5 MHz)	670
I.R.(Megohms MIN)	5,000

MECHANICAL	
Interface Dimensions	MIL-STD-348A, Fig. 310-1
Recommended Mating Torque	7-10 IN-LBS
Mating Characteristics:	
Insertion (MAX Lbs)	N/A
Withdrawal (MIN Oz)	N/A
Force to Engage and Disengage (In-Lbs MAX)	2
Center Contact Captivation	
Axial (Lbs)	6
Radial (In-Oz)	N/A
Cable Retention	
Axial Force (Lbs)	45
Torque (In-Oz)	N/A
Weight (Grams)	TBD

ENVIRONMENTAL
Temperature Rating -65 TO +165°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 +85°C
Moisture Resistance MIL-STD-202, Method 106
Corrosion - MIL-STD-202, Method 101, Condition B, 5% salt spray

.XXX = in
XX.X = mm (REF)

COMPONENT	MATERIAL	FINISH
HOUSING COUPLING NUT	STAINLESS STEEL PER ASTM-A484 AND ASTM-A582, TYPE 303	PASSIVATE PER QQ-P-35
DIELECTRIC	TFE FLUOROCARBON PER ASTM-D-1457	N/A
CENTER CONTACT	BERYLLIUM COPPER PER ASTM-B-196 OR ASTM-B-197, ALLOY C17300, CONDITION H	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
FERRULE	COPPER OR BRASS ALLOY ROCKWELL F65 MAXIMUM	GOLD PLATE PER MIL-G-45204

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRAC ± 1/64 DEC ±.005 ANGLES ± 1°

DRAWN BY K.LE DATE 9-13-96
CHECKED BY
APP'D BY 11/6/96

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USE ASS'Y PROCEDURE

NO. A.P. 20-513

M/A-COM an AMP company
M/A-COM, Inc.
Waltham, MA 02254

TITLE "OSM" STRAIGHT CABLE PLUG-CRIMP ATTACHMENT

SIZE	CODE IDENT NO.		REV
B	26805	2031-8115-92	01_0
SCALE 5:1		SHEET 1 OF 1	

Customer 1051800 Rev O
Sheet 1 of 1