

HUBER+SUHNER Astrolab PART NUMBER	DIMENSION "L" IN	2.0 GHz		18.0 GHz		26.5 GHz	
		VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB
microbend MTR-2	2.00 [50.8]	1.25:1	0.23	1.45:1	0.59	1.50:1	0.73
microbend MTR-2.5	2.50 [63.5]	1.25:1	0.26	1.45:1	0.66	1.50:1	0.81
microbend MTR-3	3.00 [76.2]	1.25:1	0.28	1.45:1	0.72	1.50:1	0.88
microbend MTR-3.5	3.50 [88.9]	1.25:1	0.29	1.45:1	0.78	1.50:1	0.96
microbend MTR-4	4.00 [101.6]	1.25:1	0.31	1.45:1	0.84	1.50:1	1.03
microbend MTR-4.5	4.50 [114.3]	1.25:1	0.33	1.45:1	0.90	1.50:1	1.11
microbend MTR-5	5.00 [127.0]	1.25:1	0.35	1.45:1	0.96	1.50:1	1.18
microbend MTR-5.5	5.50 [139.7]	1.25:1	0.37	1.45:1	1.02	1.50:1	1.26
microbend MTR-6	6.00 [152.4]	1.25:1	0.39	1.45:1	1.09	1.50:1	1.33
microbend MTR-6.5	6.50 [165.1]	1.25:1	0.41	1.45:1	1.15	1.50:1	1.40
microbend MTR-7	7.00 [177.8]	1.25:1	0.43	1.45:1	1.21	1.50:1	1.48
microbend MTR-8	8.00 [203.2]	1.25:1	0.47	1.45:1	1.33	1.50:1	1.63
microbend MTR-9	9.00 [228.6]	1.25:1	0.51	1.45:1	1.45	1.50:1	1.78
microbend MTR-10	10.00 [254.0]	1.25:1	0.54	1.45:1	1.57	1.50:1	1.93
microbend MTR-11	11.00 [279.4]	1.25:1	0.58	1.45:1	1.69	1.50:1	2.08
microbend MTR-12	12.00 [304.8]	1.25:1	0.62	1.45:1	1.81	1.50:1	2.23
microbend MTR-		1.25:1		1.45:1		1.50:1	

# NOTES:

- DESCRIPTION,  
CABLE ASSEMBLY, SMA PLUG TO SMPM-T  
THREADED FEMALE, RUGGEDIZED.  
THE RETAINING NUT GUARANTEES FULL AND  
CONSTANT SMPM-T CONNECTOR MATING  
DURING VIBRATION AND SHOCK.
- CABLE,  
COAXIAL CABLE HUBER+SUHNER Astrolab P/N 32041E.  
MEETS OR EXCEEDS MIL-DTL-17.  
SEE HUBER+SUHNER Astrolab CONTROL DRAWING  
FOR MATERIALS AND FINISHES.
- CONNECTOR -A-, SMA PLUG:  
HUBER+SUHNER Astrolab P/N 29094CR-32-41.  
INTERFACE DIMENSIONS IAW MIL-STD-348.  
SEE HUBER+SUHNER Astrolab CONTROL DRAWING  
FOR MATERIALS AND FINISHES.
- CONNECTOR -B-, SMPM-T THREADED FEMALE:  
HUBER+SUHNER Astrolab P/N 29971TCR-32-41.  
INTERFACE DIMENSIONS IAW MIL-STD-348.  
SEE HUBER+SUHNER Astrolab CONTROL DRAWING  
FOR MATERIALS AND FINISHES.

# CONTROL DRAWING

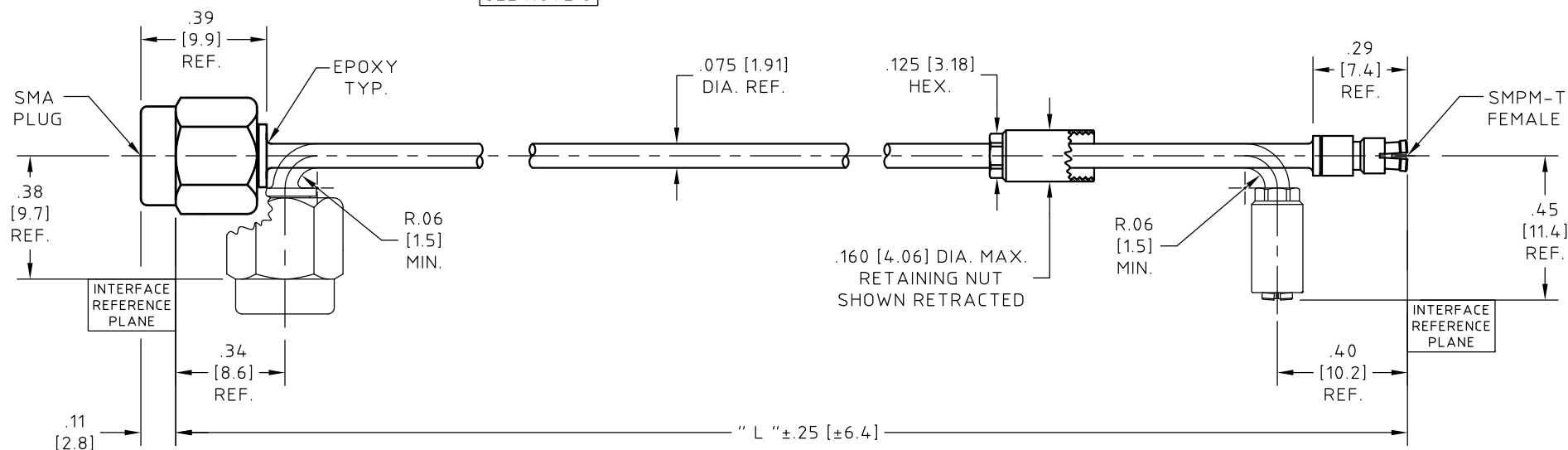
microbend MTR-XX

## NOTES CONTINUED:

- MARKING:  
DIRECTLY ON CABLE, NONE.  
ALL MARKING WILL BE DONE ON PACKAGING.
- ELECTRICAL CHARACTERISTICS:  
IMPEDANCE,  
50.0 Ohms NOMINAL.  
FREQUENCY, INSERTION LOSS AND VSWR  
SEE CHART.
- MECHANICAL:  
OPERATING TEMPERATURE RANGE,  
-55° C TO +125° C.  
CABLE ASSEMBLY LENGTH "L"  
MEASURED IAW MIL-PRF-55427.
- ATTENUATION FORMULAS:  
8A. CALCULATE AT 18.0 GHz  
(dB) = 1.45 dB/FT. X L(ft.)+.36 dB  
8B. CALCULATE AT 26.5 GHz  
(dB) = 1.80 dB/FT. X L(ft.)+.43 dB
- TORQUE RETAINING NUT TO 22.0±2.0 IN-Oz  
[0.155 Nm±0.014Nm].

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SEE NOTE 8



ROHS 5/6 COMPLIANT

UNLESS OTHERWISE SPECIFIED  
CONCENTRICITY .004 T.I.R.  
CORNERS AND FILLETS .005  
MAX. RADIUS OR CHAMFER.  
SURFACE FINISH 63 RMS  
MICROINCHES OR BETTER.

FRACTIONS	± 1/16
X	± .030
XX	± .015
XXX	± .005
ANGLES	± 1°
DO NOT SCALE DRAWING	

NAME	DATE				
PREP.	EF				
ELEC.	RF				
MECH.	GSG				
Q.C.		THIS DRAWING CONTAINS PATENTABLE AND PROPRIETARY INFORMATION. THE DESIGN CANNOT BE USED WITHOUT WRITTEN PERMISSION OF HUBER + SUHNER ASTROLAB.			
TITLE		CABLE ASSEMBLY, SMA PLUG TO SMPM-T THREADED FEMALE			
THDS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STD. FOR FEDERAL SERVICES 1950 SUPL. TO HANDBOOK H 28.		SCALE	CODE IDENT.	DWG NO.	REV
		2:1	16301	microbend MTR-XX	D

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