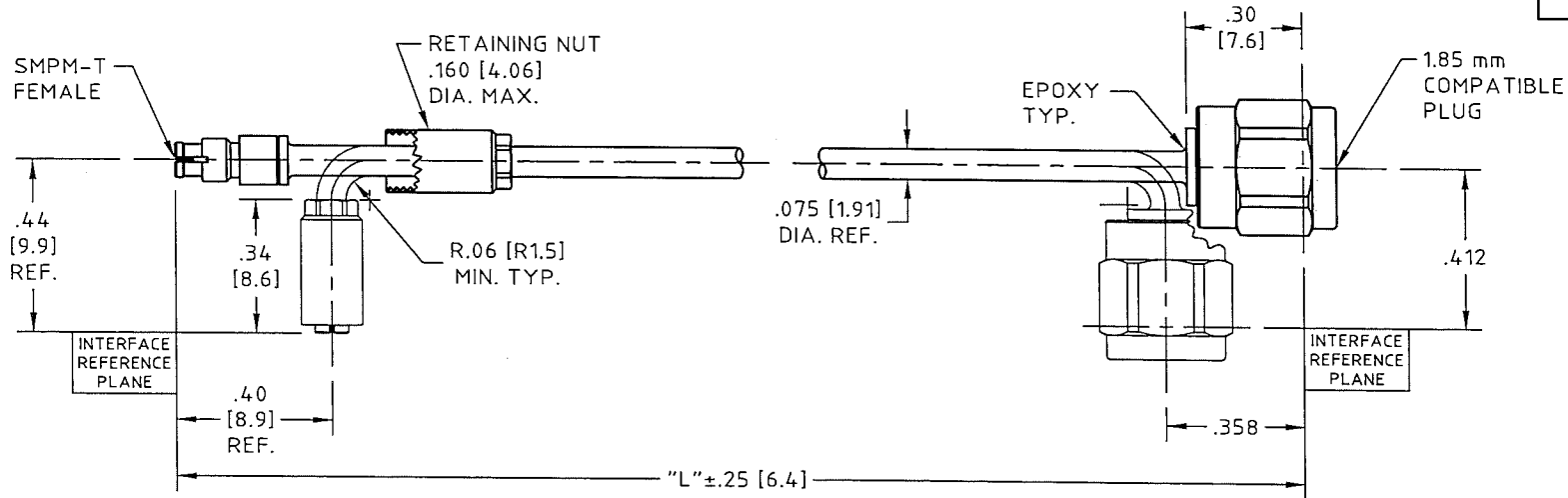


# CONTROL DRAWING

MICROBEND MTRV-xx

B



**ROHS 5/6 COMPLIANT**

**NOTES:**

- DESCRIPTION:  
CABLE ASSEMBLY, SMPM-T FEMALE TO 1.85mm PLUG.  
THE SMPM-T THREADED CONNECTOR OFFERS THE ADDITIONAL SECURITY OF A RETAINING NUT TO ASSURE MATED CONDITION IN HI-REL ENVIRONMENTS. THE CABLE ASSEMBLY IS, RUGGEDIZED AND SUITABLE FOR COMPLEX, CONGESTED INSTALLATIONS. WHEN INSTALLED AND BENT AT THE MINIMUM BEND RADIUS, microbend MTRV WILL TOLERATE MULTIPLE ±90° ROTATIONS AT THE CABLE CONNECTOR JUNCTION.
- CABLE,  
COAXIAL CABLE H+S Astrolab P/N 32041E. (HIGH PERFORMANCE) astro - STEEL - flex I. MEETS OR EXCEEDS MIL-DTL-17. SEE H+S Astrolab CONTROL DRAWING FOR MATERIALS AND FINISHES.
- CONNECTOR -A-, SMPM-T FEMALE:  
H+S Astrolab P/N 29971TCR-32-41 IAW MIL-STD-348. SEE H+S Astrolab CONTROL DRAWING FOR MATERIALS AND FINISHES.

**NOTES CONTINUED:**

- CONNECTOR -B-, 1.85mm PLUG:  
H+S Astrolab P/N 29890CR-32-41-2 SEE H+S Astrolab CONTROL DRAWING FOR MATERIALS AND FINISHES.
- 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. MECHANICAL PERFORMANCE, GUARANTEED 10.0 LBS. [45.0 N] PULL FORCE.

H+S Astrolab PART NUMBER	DIMENSION "L"	12.4 GHz		18.0 GHz		40.0 GHz		65.0 GHz	
		VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB
microbend MTRV-2.5	2.50 (63.5)	1.33:1	0.51	1.40:1	0.62	1.60:1	1.07	1.80:1	1.42
microbend MTRV-3	3.00 (76.2)	1.33:1	0.56	1.40:1	0.68	1.60:1	1.16	1.80:1	1.54
microbend MTRV-3.5	3.50 (88.9)	1.33:1	0.61	1.40:1	0.74	1.60:1	1.26	1.80:1	1.66
microbend MTRV-4	4.00 (101.6)	1.33:1	0.66	1.40:1	0.80	1.60:1	1.35	1.80:1	1.79
microbend MTRV-4.5	4.50 (114.3)	1.33:1	0.71	1.40:1	0.86	1.60:1	1.44	1.80:1	1.91
microbend MTRV-5	5.00 (127.0)	1.33:1	0.76	1.40:1	0.92	1.60:1	1.54	1.80:1	2.03
microbend MTRV-5.5	5.50 (139.7)	1.33:1	0.81	1.40:1	0.98	1.60:1	1.63	1.80:1	2.16
microbend MTRV-6	6.00 (152.4)	1.33:1	0.86	1.40:1	1.05	1.60:1	1.73	1.80:1	2.28
microbend MTRV-7	7.00 (177.8)	1.33:1	0.95	1.40:1	1.17	1.60:1	1.91	1.80:1	2.53
microbend MTRV-8	8.00 (203.2)	1.33:1	1.05	1.40:1	1.29	1.60:1	2.10	1.80:1	2.77
microbend MTRV-9	9.00 (228.6)	1.33:1	1.15	1.40:1	1.41	1.60:1	2.29	1.80:1	3.02
microbend MTRV-10	10.00 (254.0)	1.33:1	1.25	1.40:1	1.53	1.60:1	2.48	1.80:1	3.27
microbend MTRV-11	11.00 (279.4)	1.33:1	1.35	1.40:1	1.65	1.60:1	2.66	1.80:1	3.51
microbend MTRV-12	12.00 (304.8)	1.33:1	1.45	1.40:1	1.77	1.60:1	2.85	1.80:1	3.76
microbend MTRV-									

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. EB	10/24/11	
ELEC.		
MECH.		
Q.C.		
TITLE		THIS DRAWING CONTAINS PATENTABLE AND PROPRIETARY INFORMATION. THE DESIGN CANNOT BE USED WITHOUT WRITTEN PERMISSION OF HUBER - SUHNER ASTROLAB.

**SMPM-T FEMALE TO 1.85mm PLUG**

B	COMPANY LOGO UPDATED	01/15/13	GS		THOS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STDS. FOR FEDERAL SERVICES 1950 SUPPL. TO HANDBOOK H 28.	SCALE	CODE IDENT.	DWG NO.	REV
REV.	DESCRIPTION	DATE	BY	APPROVED	2:1	16301	MICROBEND MTRV-xx	B	