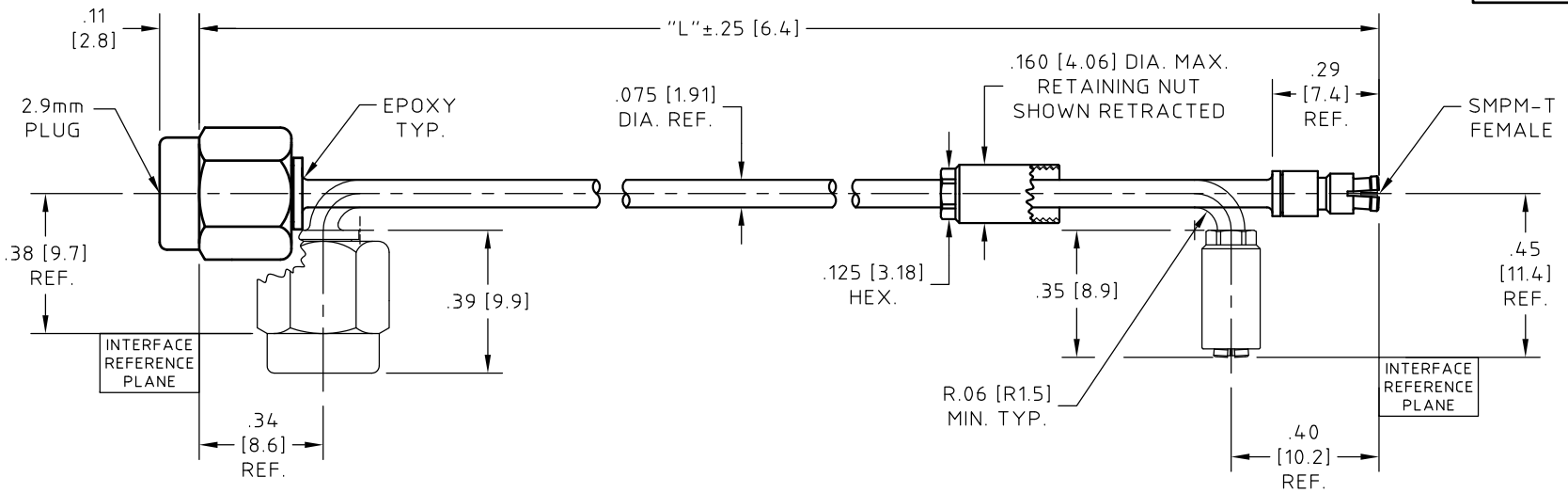
CONTROL DRAWING

microbend KMTR-XX

D



ROHS 6 COMPLIANT

NOTES:

1. DESCRIPTION,
   CABLE ASSEMBLY, 2.9mm PLUG TO SMPM-T THREADED FEMALE, RUGGEDIZED AND SUITABLE FOR COMPLEX, CONGESTED INSTALLATIONS.
   WHEN INSTALLED AND BEND AT THE MINIMUM BEND RADIUS, CABLE ASSEMBLY WILL TOLERATE MULTIPLE ±90° ROTATIONS AT THE CABLE CONNECTOR JUNCTION.
   THE RETAINING NUT GUARANTEES FULL AND CONSTANT SMPM-T CONNECTOR MATING DURING VIBRATION AND SHOCK.

2. 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.

3. CONNECTOR -A-, 2.9mm PLUG:
   HUBER+SUHNER Astrolab P/N 29094KCR-32-41
   INTERFACE DIMENSIONS IAW MIL-STD-348.
   SEE HUBER+SUHNER Astrolab CONTROL DRAWING FOR MATERIALS AND FINISHES.

4. 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.

5. MARKING:
   ALL MARKING WILL BE DONE ON PACKAGING.

NOTES CONTINUED:

6. ELECTRICAL CHARACTERISTICS:
   IMPEDANCE,
   50.0 Ohms NOMINAL.
   FREQUENCY, INSERTION LOSS AND VSWR, SEE CHART.

7. MECHANICAL:
   OPERATING TEMPERATURE RANGE,
   -55° C TO +125° C.
   TORQUE RETAINING NUT TO 22.0±2.0 IN-Oz [0.155 Nm±0.014Nm].

8. ATTENUATION FORMULAS:
   8A. CALCULATE AT 26.5 GHz
   (dB) = 1.80 dB/FT. X L(ft.)+.39 dB
   8B. CALCULATE AT 40.0 GHz
   (dB) = 2.25 dB/FT. X L(ft.)+.59 dB

HUBER+SUHNER Astrolab PART NUMBER	DIMENSION "L"	2.0 GHz		18.0 GHz		26.5 GHz		40.0 GHz	
		VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB
microbend KMTR-2.5	2.50 (63.5)	1.20:1	0.23	1.40:1	0.62	1.50:1	0.77	1.60:1	1.06
microbend KMTR-3	3.00 (76.2)	1.20:1	0.25	1.40:1	0.68	1.50:1	0.85	1.60:1	1.15
microbend KMTR-3.5	3.50 (88.9)	1.20:1	0.27	1.40:1	0.74	1.50:1	0.92	1.60:1	1.25
microbend KMTR-4	4.00 (101.6)	1.20:1	0.29	1.40:1	0.80	1.50:1	1.00	1.60:1	1.34
microbend KMTR-4.5	4.50 (114.3)	1.20:1	0.31	1.40:1	0.86	1.50:1	1.07	1.60:1	1.43
microbend KMTR-5	5.00 (127.0)	1.20:1	0.33	1.40:1	0.92	1.50:1	1.15	1.60:1	1.53
microbend KMTR-5.5	5.50 (139.7)	1.20:1	0.35	1.40:1	0.98	1.50:1	1.22	1.60:1	1.62
microbend KMTR-6	6.00 (152.4)	1.20:1	.037	1.40:1	1.05	1.50:1	1.30	1.60:1	1.72
microbend KMTR-7	7.00 (177.8)	1.20:1	0.40	1.40:1	1.17	1.50:1	1.44	1.60:1	1.90
microbend KMTR-8	8.00 (203.2)	1.20:1	0.44	1.40:1	1.29	1.50:1	1.59	1.60:1	2.09
microbend KMTR-9	9.00 (228.6)	1.20:1	0.48	1.40:1	1.41	1.50:1	1.74	1.60:1	2.28
microbend KMTR-10	10.00 (254.0)	1.20:1	0.52	1.40:1	1.53	1.50:1	1.89	1.60:1	2.47
microbend KMTR-11	11.00 (279.4)	1.20:1	0.55	1.40:1	1.65	1.50:1	2.04	1.60:1	2.65
microbend KMTR-12	12.00 (304.8)	1.20:1	0.59	1.40:1	1.77	1.50:1	2.19	1.60:1	2.84
microbend KMTR-		1.20:1		1.40:1		1.50:1		1.60:1	

SEE NOTE 8

	NAME	DATE
PREP.	EB	09/21/10
ELEC.	RF	09/21/10
MECH.	GSG	09/21/10
Q.C.		

HUBER+SUHNER
Astrolab

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	

TITLE

CABLE ASSEMBLY, 2.9mm PLUG TO SMPM-T THREADED FEMALE, RUGGEDIZED

THDS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STDS. FOR FEDERAL SERVICES 1950 SUPL. TO HANDBOOK H 28.

SCALE	CODE IDENT.	DWG NO.	REV
2:1	16301	microbend KMTR-XX	D

REV.	DESCRIPTION	DATE	BY	APPROVED
D	ECN No. 15606	06/11/13	EB	