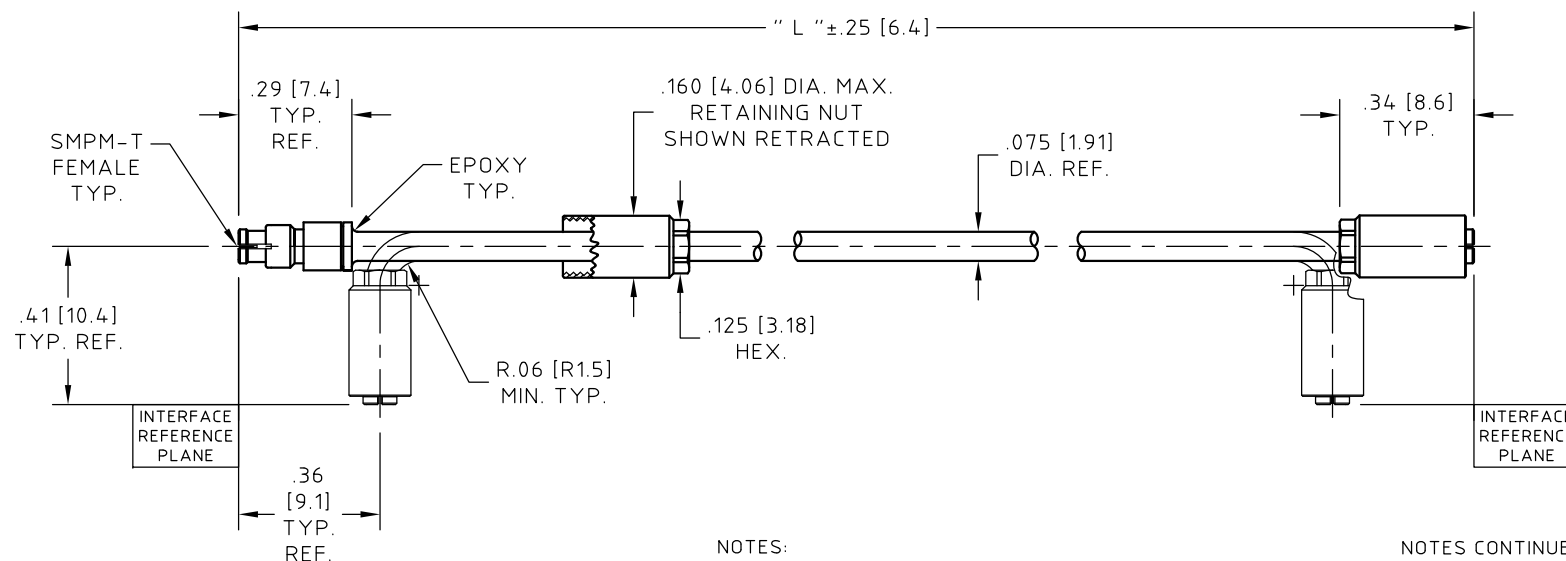


CONTROL DRAWING

microbend 2MTR-XX

F



NOTES:

1. DESCRIPTION,

CABLE ASSEMBLY, SMPM-T THREADED FEMALE 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 $\pm 90^\circ$ 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-, 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.

4. CONNECTOR -B-, SMPM-T THREADED FEMALE:

SAME AS CONNECTOR -A-.

NOTES CONTINUED:

5. MARKING:

ALL MARKING WILL BE DONE ON PACKAGING.

6. ELECTRICAL CHARACTERISTICS:

IMPEDANCE, 50.0 Ohms NOMINAL. FREQUENCY, INSERTION LOSS AND VSWR SEE CHART.

7. MECHANICAL:

OPERATING TEMPERATURE RANGE, -55°C TO $+125^\circ\text{C}$. TORQUE RETAINING NUT TO 22.0 ± 2.0 IN-Oz [$0.155 \text{ Nm} \pm 0.014 \text{ Nm}$].

8. ATTENUATION FORMULAS:


8A. CALCULATE AT 18.0 GHz
(dB) = $1.46 \text{ dB/FT.} \times L(\text{ft.}) + .44 \text{ dB}$
8B. CALCULATE AT 40.0 GHz
(dB) = $2.25 \text{ dB/FT.} \times L(\text{ft.}) + .80 \text{ dB}$

| HUBER+SUHNER Astrolab PART NUMBER | DIMENSION "L" | 2.0 GHz | | 12.0 GHz | | 18.0 GHz | | 40.0 GHz | |
|---|------------------|---------|---------|----------|---------|----------|---------|----------|---------|
| | | VSWR | I.L. dB | VSWR | I.L. dB | VSWR | I.L. dB | VSWR | I.L. dB |
| microbend 2MTR-2 | 2.00 [50.8] | 1.25:1 | 0.29 | 1.35:1 | 0.55 | 1.50:1 | 0.66 | 1.65:1 | 1.18 |
| microbend 2MTR-2.5 | 2.50 [63.5] | 1.25:1 | 0.30 | 1.35:1 | 0.60 | 1.50:1 | 0.74 | 1.65:1 | 1.27 |
| microbend 2MTR-3 | 3.00 [76.2] | 1.25:1 | 0.32 | 1.35:1 | 0.65 | 1.50:1 | 0.81 | 1.65:1 | 1.36 |
| microbend 2MTR-3.5 | 3.50 [88.9] | 1.25:1 | 0.33 | 1.35:1 | 0.70 | 1.50:1 | 0.87 | 1.65:1 | 1.46 |
| microbend 2MTR-4 | 4.00 [101.6] | 1.25:1 | 0.35 | 1.35:1 | 0.75 | 1.50:1 | 0.93 | 1.65:1 | 1.55 |
| microbend 2MTR-4.5 | 4.50 [114.3] | 1.25:1 | 0.37 | 1.35:1 | 0.80 | 1.50:1 | 0.99 | 1.65:1 | 1.64 |
| microbend 2MTR-5 | 5.00 [127.0] | 1.25:1 | 0.39 | 1.35:1 | 0.85 | 1.50:1 | 1.05 | 1.65:1 | 1.74 |
| microbend 2MTR-5.5 | 5.50 [139.7] | 1.25:1 | 0.41 | 1.35:1 | 0.90 | 1.50:1 | 1.11 | 1.65:1 | 1.83 |
| microbend 2MTR-6 | 6.00 [152.4] | 1.25:1 | 0.43 | 1.35:1 | 0.95 | 1.50:1 | 1.17 | 1.65:1 | 1.93 |
| microbend 2MTR-6.5 | 6.50 [165.1] | 1.25:1 | 0.45 | 1.35:1 | 1.00 | 1.50:1 | 1.23 | 1.65:1 | 2.02 |
| microbend 2MTR-7 | 7.00 [177.8] | 1.25:1 | 0.47 | 1.35:1 | 1.04 | 1.50:1 | 1.29 | 1.65:1 | 2.11 |
| microbend 2MTR-8 | 8.00 [203.2] | 1.25:1 | 0.51 | 1.35:1 | 1.14 | 1.50:1 | 1.41 | 1.65:1 | 2.30 |
| microbend 2MTR-9 | 9.00 [228.6] | 1.25:1 | 0.55 | 1.35:1 | 1.24 | 1.50:1 | 1.54 | 1.65:1 | 2.49 |
| microbend 2MTR-10 | 10.00 [254.0] | 1.25:1 | 0.58 | 1.35:1 | 1.34 | 1.50:1 | 1.66 | 1.65:1 | 2.68 |
| microbend 2MTR-11 | 11.00 [279.4] | 1.25:1 | 0.62 | 1.35:1 | 1.43 | 1.50:1 | 1.78 | 1.65:1 | 2.86 |
| microbend 2MTR-12 | 12.00 [304.8] | 1.25:1 | 0.66 | 1.35:1 | 1.53 | 1.50:1 | 1.90 | 1.65:1 | 3.05 |
| microbend 2MTR- | | 1.25:1 | | 1.35:1 | | 1.50:1 | | 1.65:1 | |

SEE NOTE 8

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

| | |
|----------------------|---------------|
| FRACTIONS | $\pm 1/16$ |
| X | $\pm .030$ |
| XX | $\pm .015$ |
| XXX | $\pm .005$ |
| ANGLES | $\pm 1^\circ$ |
| DO NOT SCALE DRAWING | |

| | | | | |
|---|--------------|----------------------|--|----------|
| NAME | | DATE |  <div>HUBER+SUHNER Astrolab</div> | |
| PREP. | GSG | 02/27/09 | | |
| ELEC. | RF | 06/13/11 | | |
| MECH. | AW | 03/03/09 | | |
| Q.C. | | | | |
| TITLE | | | THIS DRAWING CONTAINS PATENTABLE AND PROPRIETARY INFORMATION. THE DESIGN CANNOT BE USED WITHOUT WRITTEN PERMISSION OF HUBER + SUHNER ASTROLAB. | |
| CABLE ASSEMBLY, SMPM-T THREADED FEMALE TO SMPM-T THREADED FEMALE | | | | |
| THDS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STDS. FOR FEDERAL SERVICES 1950 SUPL. TO HANDBOOK H 28. | SCALE 2:1 | CODE IDENT. 16301 | DWG NO. microbend 2MTR-XX | REV F |

ROHS 6 COMPLIANT

| | | | | |
|------|---------------|----------|----|----------|
| F | ECN No. 15903 | 10/29/13 | EB | |
| REV. | DESCRIPTION | DATE | BY | APPROVED |

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