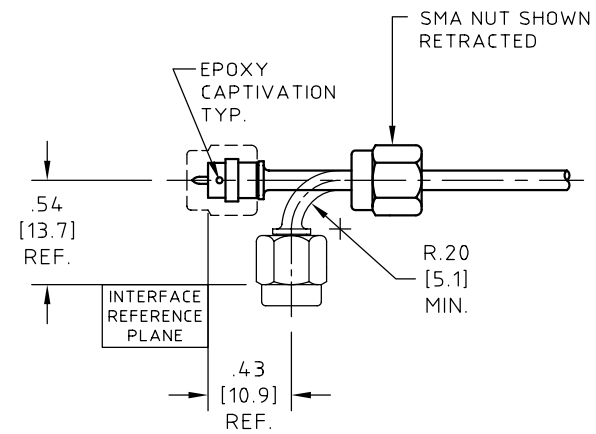


| ASSEMBLY NO. | DIM. "L" | 2.0 GHz | | 12.4 GHz | | 18 GHz | |
|----------------|---------------|---------|----------|----------|----------|--------|----------|
| | | VSWR | LOSS, dB | VSWR | LOSS, dB | VSWR | LOSS, dB |
| minibend E-2.5 | 2.50 (63.5) | 1.25:1 | 0.19 | 1.35:1 | 0.39 | 1.45:1 | 0.55 |
| minibend E-3 | 3.00 (76.2) | 1.25:1 | 0.20 | 1.35:1 | 0.43 | 1.45:1 | 0.60 |
| minibend E-3.5 | 3.50 (88.9) | 1.25:1 | 0.22 | 1.35:1 | 0.47 | 1.45:1 | 0.65 |
| minibend E-4 | 4.00 (101.6) | 1.25:1 | 0.24 | 1.35:1 | 0.51 | 1.45:1 | 0.70 |
| minibend E-4.5 | 4.50 (114.3) | 1.25:1 | 0.25 | 1.35:1 | 0.57 | 1.45:1 | 0.75 |
| minibend E-5 | 5.00 (127.0) | 1.25:1 | 0.27 | 1.35:1 | 0.60 | 1.45:1 | 0.80 |
| minibend E-5.5 | 5.50 (139.7) | 1.25:1 | 0.28 | 1.35:1 | 0.65 | 1.45:1 | 0.85 |
| minibend E-6 | 6.00 (152.4) | 1.25:1 | 0.30 | 1.35:1 | 0.68 | 1.45:1 | 0.90 |
| minibend E-7 | 7.00 (177.8) | 1.25:1 | 0.33 | 1.35:1 | 0.77 | 1.45:1 | 1.00 |
| minibend E-8 | 8.00 (203.2) | 1.25:1 | 0.36 | 1.35:1 | 0.85 | 1.45:1 | 1.10 |
| minibend E-9 | 9.00 (228.6) | 1.25:1 | 0.39 | 1.35:1 | 0.94 | 1.45:1 | 1.20 |
| minibend E-10 | 10.00 (254.0) | 1.25:1 | 0.42 | 1.35:1 | 1.01 | 1.45:1 | 1.29 |
| minibend E-11 | 11.00 (279.4) | 1.25:1 | 0.45 | 1.35:1 | 1.10 | 1.45:1 | 1.39 |
| minibend E-12 | 12.00 (304.8) | 1.25:1 | 0.48 | 1.35:1 | 1.18 | 1.45:1 | 1.47 |
| minibend E-13 | 13.00 (330.2) | 1.25:1 | 0.51 | 1.35:1 | 1.26 | 1.45:1 | 1.58 |
| minibend E-14 | 14.00 (355.6) | 1.25:1 | 0.54 | 1.35:1 | 1.33 | 1.45:1 | 1.67 |
| minibend E-15 | 15.00 (381.0) | 1.25:1 | 0.58 | 1.35:1 | 1.43 | 1.45:1 | 1.78 |
| minibend E-16 | 16.00 (406.4) | 1.25:1 | 0.61 | 1.35:1 | 1.50 | 1.45:1 | 1.87 |
| minibend E- | | | | | | | |

CONTROL DRAWING

minibend E-XX



SHOWN ABOVE IS TYPICAL INSTALLATION.

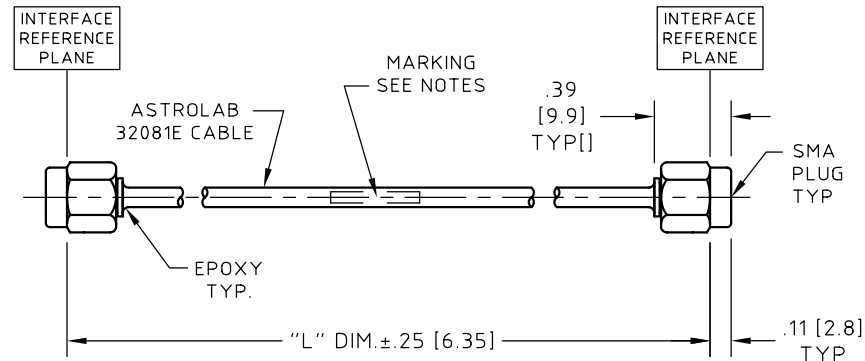
ROHS 5/6 COMPLIANT

NOTES:

- DESCRIPTION, LOW OUTGASSING, CABLE ASSEMBLY, SMA PLUG TO SMA PLUG. FULLY CAPTIVATED, RUGGEDIZED VERSION OF THE STANDARD MINIBEND. ASSEMBLY MEETS OR EXCEEDS NASA LOW OUTGASSING REQUIREMENTS.
- CABLE, COAXIAL CABLE ASTROLAB P/N 32081E MEETS OR EXCEEDS MIL-DTL-17 SEE ASTROLAB CONTROL DRAWING FOR MATERIALS AND FINISHES.
- CONNECTOR -A-, SMA PLUG: ASTROLAB P/N 29094CE-32-81 IAW MIL-STD-348. SEE ASTROLAB CONTROL DRAWING FOR MATERIALS AND FINISHES.
- CONNECTOR -B-, SMA PLUG: SAME AS CONNECTOR -A-.

NOTES CONTINUED:

- ELECTRICAL CHARACTERISTICS: IMPEDANCE, 50.0 Ohms NOMINAL. FREQUENCY, INSERTION LOSS AND VSWR SEE CHART.
- MECHANICAL: OPERATING TEMPERATURE RANGE, -55° C TO +125° C. PULL STRENGTH TO 25.0 LBS. [111 N]. EPOXY CAPTIVATED CONTACT WILL SHIFT NO MORE THAN .005 [0.13] UNDER FOLLOWING FORCES: 5.0 LBS. [22.3 N] MAX., UNCABLED, IN BOTH DIRECTIONS. 10.0 LBS. [44.5 N] MAX., CABLED, IN PUSH DIRECTION.

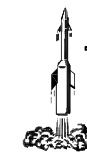


- MARKING: MARKING APPROXIMATELY CENTERED, DIRECTLY ON CABLE, ASTROLAB PART NUMBER AND DATE CODE. NO MARKING ON CABLE ASSEMBLIES SHORTER THAN 3.00" MARKING ON PACKING ONLY.

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. E.H. | 04/27/00 |
| ELEC. R. F. | 04/27/00 |
| MECH. D.P.D | 04/27/00 |
| Q.C. | |



ASTROLAB[®] INC.
WARREN, NJ

THIS DRAWING CONTAINS PATENTABLE AND PROPRIETARY INFORMATION. THE DESIGN CANNOT BE USED WITHOUT WRITTEN PERMISSION OF ASTROLAB

| | | | | | |
|---|--|--------------|----------------------|--------------------------|----------|
| TITLE CABLE ASSEMBLY, CAPTIVATED SMA PLUG TO SMA PLUG, RUGGEDIZED | | SCALE 1:1 | CODE IDENT. 16301 | DWG NO. minibend E-XX | REV L |
| THDS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STDS. FOR FEDERAL SERVICES 1950 SUPL. TO HANDBOOK H 28. | | | | | |

| | | | | |
|------|---------------|----------|----|----------|
| L | ECN No. 13950 | 05/18/11 | EF | |
| REV. | DESCRIPTION | DATE | BY | APPROVED |