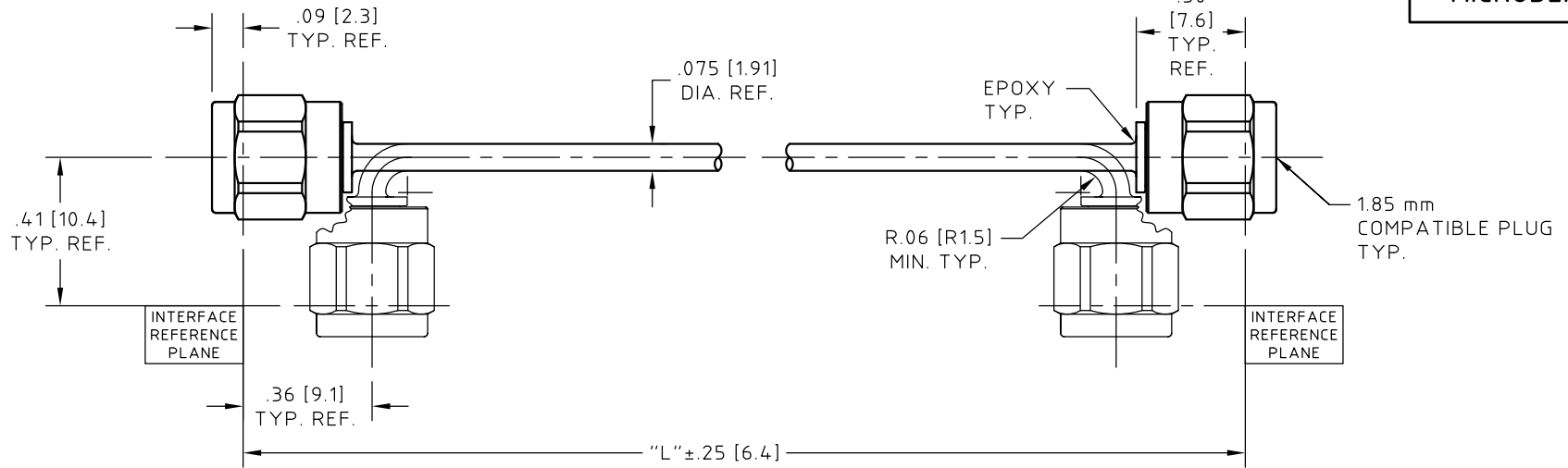


CONTROL DRAWING

MICROBEND V-xx



| HUBER+SUHNER 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 V-2.5 | 2.50 (63.5) | 1.27:1 | 0.47 | 1.35:1 | 0.55 | 1.55:1 | 0.99 | 1.65:1 | 1.29 |
| microbend V-3 | 3.00 (76.2) | 1.27:1 | 0.52 | 1.35:1 | 0.62 | 1.55:1 | 1.09 | 1.65:1 | 1.41 |
| microbend V-3.5 | 3.50 (88.9) | 1.27:1 | 0.57 | 1.35:1 | 0.68 | 1.55:1 | 1.18 | 1.65:1 | 1.54 |
| microbend V-4 | 4.00 (101.6) | 1.27:1 | 0.62 | 1.35:1 | 0.74 | 1.55:1 | 1.27 | 1.65:1 | 1.66 |
| microbend V-4.5 | 4.50 (114.3) | 1.27:1 | 0.67 | 1.35:1 | 0.80 | 1.55:1 | 1.37 | 1.65:1 | 1.78 |
| microbend V-5 | 5.00 (127.0) | 1.27:1 | 0.72 | 1.35:1 | 0.86 | 1.55:1 | 1.46 | 1.65:1 | 1.91 |
| microbend V-5.5 | 5.50 (139.7) | 1.27:1 | 0.77 | 1.35:1 | 0.92 | 1.55:1 | 1.56 | 1.65:1 | 2.03 |
| microbend V-6 | 6.00 (152.4) | 1.27:1 | 0.82 | 1.35:1 | .098 | 1.55:1 | 1.65 | 1.65:1 | 2.16 |
| microbend V-7 | 7.00 (177.8) | 1.27:1 | 0.92 | 1.35:1 | 1.10 | 1.55:1 | 1.84 | 1.65:1 | 2.40 |
| microbend V-8 | 8.00 (203.2) | 1.27:1 | 1.02 | 1.35:1 | 1.22 | 1.55:1 | 2.03 | 1.65:1 | 2.65 |
| microbend V-9 | 9.00 (228.6) | 1.27:1 | 1.12 | 1.35:1 | 1.35 | 1.55:1 | 2.22 | 1.65:1 | 2.90 |
| microbend V-10 | 10.00 (254.0) | 1.27:1 | 1.22 | 1.35:1 | 1.47 | 1.55:1 | 2.40 | 1.65:1 | 3.15 |
| microbend V-11 | 11.00 (279.4) | 1.27:1 | 1.32 | 1.35:1 | 1.59 | 1.55:1 | 2.59 | 1.65:1 | 3.39 |
| microbend V-12 | 12.00 (304.8) | 1.27:1 | 1.42 | 1.35:1 | 1.71 | 1.55:1 | 2.78 | 1.65:1 | 3.64 |
| microbend V-13 | 13.00 (330.2) | 1.27:1 | 1.52 | 1.35:1 | 1.83 | 1.55:1 | 2.97 | 1.65:1 | 3.89 |
| microbend V-14 | 14.00 (355.6) | 1.27:1 | 1.62 | 1.35:1 | 1.95 | 1.55:1 | 3.16 | 1.65:1 | 4.14 |
| microbend V-15 | 15.00 (381.0) | 1.27:1 | 1.72 | 1.35:1 | 2.08 | 1.55:1 | 3.35 | 1.65:1 | 4.38 |
| microbend V-16 | 16.00 (406.4) | 1.27:1 | 1.82 | 1.35:1 | 2.20 | 1.55:1 | 3.53 | 1.65:1 | 4.63 |
| microbend V- | | 1.27:1 | | 1.35:1 | | 1.55:1 | | 1.65:1 | |

NOTES:

- DESCRIPTION:**
CABLE ASSEMBLY, SMPM FEMALE TO 1.85mm PLUG.
THE CABLE ASSEMBLY IS, RUGGEDIZED AND SUITABLE FOR COMPLEX, CONGESTED INSTALLATIONS.
WHEN INSTALLED AND BENT AT THE MINIMUM BEND RADIUS, THE ASSEMBLY WILL TOLERATE MULTIPLE ±90° ROTATIONS AT THE CABLE CONNECTOR JUNCTION.
- CABLE,**
COAXIAL CABLE HUBER+SUHNER Astrolab P/N 32041E. (HIGH PERFORMANCE) astro - STEEL - flex I.
MEETS OR EXCEEDS MIL-DTL-17.
SEE HUBER+SUHNER Astrolab CONTROL DRAWING FOR MATERIALS AND FINISHES.
- CONNECTOR -A-, 1.85mm COMPATIBLE PLUG:**
HUBER+SUHNER Astrolab P/N 29890CR-32-41-2
SEE HUBER+SUHNER Astrolab CONTROL DRAWING FOR MATERIALS AND FINISHES.
- CONNECTOR -B-, 1.85mm COMPATIBLE PLUG:**
SAME AS CONNECTOR -A-.

NOTES CONTINUED:


- MARKING:**
DIRECTLY ON CABLE, NONE.
ALL MARKING WILL BE DONE ON PACKAGING.
- ELECTRICAL CHARACTERISTICS:**
IMPEDANCE, 50.0 Ohms NOMINAL.
FREQUENCY, OPERATING, 70.0 GHz MAX.
TESTED TO 65.0 GHz.
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.
- ATTENUATION FORMULAS:**
8A. CALCULATE AT 40.0 GHz
(dB) = 2.26 dB/FT. X L(ft.)+.52 dB
8B. CALCULATE AT 65.0 GHz
(dB) = 2.96 dB/FT. X L(ft.)+.69 dB

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

| NAME | DATE |
|-----------|----------|
| PREP. GSG | 02/05/04 |
| ELEC. RF | 02/10/04 |
| MECH. AW | 02/10/04 |
| Q.C. AG | 02/10/04 |



HUBER+SUHNER
Astrolab

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

| | | | |
|---|-------|---|----------------|
| TITLE | | CABLE ASSEMBLY, 1.85mm COMPATIBLE PLUG | |
| 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. |
| | 2:1 | 16301 | MICROBEND V-xx |
| | | | REV L |

ROHS 5/6 COMPLIANT

| | | | | |
|------|---------------|----------|-----|----------|
| L | ECN No. 15767 | 08/26/13 | GSG | |
| REV. | DESCRIPTION | DATE | BY | APPROVED |