# CONTROL DRAWING

microbend 2SR-XX

H

| ASTROLAB PART NUMBER | DIMENSION "L" IN | 2.0 GHz | | 12.4 GHz | | 18.0 GHz | |
|---|---|---|---|---|---|---|---|
| | | VSWR | I.L. dB | VSWR | I.L. dB | VSWR | I.L. dB |
| microbend 2SR-2 | 2.00 [50.8] | 1.25:1 | 0.27 | 1.35:1 | 0.55 | 1.50:1 | 0.69 |
| microbend 2SR-2.5 | 2.50 [63.5] | 1.25:1 | 0.29 | 1.35:1 | 0.60 | 1.50:1 | 0.75 |
| microbend 2SR-3 | 3.00 [76.2] | 1.25:1 | 0.31 | 1.35:1 | 0.65 | 1.50:1 | 0.81 |
| microbend 2SR-3.5 | 3.50 [88.9] | 1.25:1 | 0.32 | 1.35:1 | 0.70 | 1.50:1 | 0.87 |
| microbend 2SR-4 | 4.00 [101.6] | 1.25:1 | 0.34 | 1.35:1 | 0.75 | 1.50:1 | 0.93 |
| microbend 2SR-4.5 | 4.50 [114.3] | 1.25:1 | 0.36 | 1.35:1 | 0.80 | 1.50:1 | 0.99 |
| microbend 2SR-5 | 5.00 [127.0] | 1.25:1 | 0.38 | 1.35:1 | 0.85 | 1.50:1 | 1.05 |
| microbend 2SR-5.5 | 5.50 [139.7] | 1.25:1 | 0.40 | 1.35:1 | 0.90 | 1.50:1 | 1.11 |
| microbend 2SR-6 | 6.00 [152.4] | 1.25:1 | 0.42 | 1.35:1 | 0.95 | 1.50:1 | 1.18 |
| microbend 2SR-6.5 | 6.50 [165.1] | 1.25:1 | 0.44 | 1.35:1 | 1.00 | 1.50:1 | 1.24 |
| microbend 2SR-7 | 7.00 [177.8] | 1.25:1 | 0.46 | 1.35:1 | 1.04 | 1.50:1 | 1.30 |
| microbend 2SR-8 | 8.00 [203.2] | 1.25:1 | 0.50 | 1.35:1 | 1.14 | 1.50:1 | 1.42 |
| microbend 2SR-9 | 9.00 [228.6] | 1.25:1 | 0.54 | 1.35:1 | 1.24 | 1.50:1 | 1.54 |
| microbend 2SR-10 | 10.00 [254.0] | 1.25:1 | 0.57 | 1.35:1 | 1.34 | 1.50:1 | 1.66 |
| microbend 2SR-11 | 11.00 [279.4] | 1.25:1 | 0.61 | 1.35:1 | 1.43 | 1.50:1 | 1.78 |
| microbend 2SR-12 | 12.00 [304.8] | 1.25:1 | 0.65 | 1.35:1 | 1.53 | 1.50:1 | 1.90 |
| microbend 2SR-13 | 13.00 [330.2] | 1.25:1 | 0.69 | 1.35:1 | 1.64 | 1.50:1 | 2.02 |
| microbend 2SR-14 | 14.00 [355.6] | 1.25:1 | 0.73 | 1.35:1 | 1.75 | 1.50:1 | 2.14 |
| microbend 2SR-15 | 15.00 [381.0] | 1.25:1 | 0.76 | 1.35:1 | 1.85 | 1.50:1 | 2.26 |
| microbend 2SR-16 | 16.00 [406.4] | 1.25:1 | 0.80 | 1.35:1 | 1.95 | 1.50:1 | 2.38 |
| microbend 2SR- | | | | | | | |

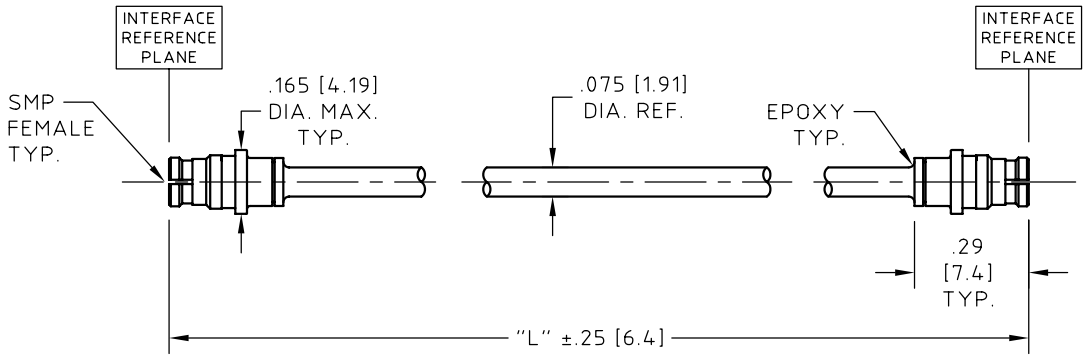
NOTES:

1. DESCRIPTION,
   CABLE ASSEMBLY, SMP FEMALE TO SMP FEMALE, microbend TYPE, RUGGEDIZED, SUITABLE FOR COMPLEX, CONGESTED INSTALLATIONS. WHEN INSTALLED AND BENT AT THE MINIMUM BEND RADIUS, microbend 2SR WILL TOLERATE MULTIPLE ±90° ROTATIONS AT THE CABLE CONNECTOR JUNCTION.
2. CABLE,
   COAXIAL CABLE ASTROLAB P/N 32041E
   MEETS OR EXCEEDS MIL-DTL-17
   SEE ASTROLAB CONTROL DRAWING FOR MATERIALS AND FINISHES.
3. CONNECTOR -A-,
   SMP FEMALE IAW MIL-STD-348.
   ASTROLAB P/N 29473CR-32-41
   SEE ASTROLAB CONTROL DRAWING FOR MATERIALS AND FINISHES.

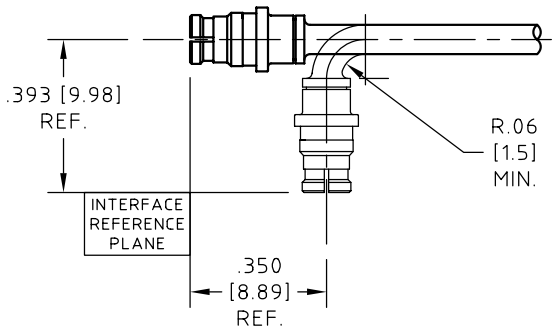
NOTES CONTINUED:

4. CONNECTOR -B-,
   SAME AS CONNECTOR A.
5. MARKING,
   NO MARKING ON CABLE ASSEMBLY
   ALL MARKING 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° C.
   MECHANICAL PERFORMANCE,
   GUARANTEED 10.0 Lbs. [45 N] PULL FORCE.

**ROHS 5/6 COMPLIANT**




SHOWN BELOW IS TYPICAL APPLICATION




| | NAME | DATE |
|---|---|---|
| PREP. | AP | 11/20/03 |
| ELEC. | RF | 11/21/03 |
| MECH. | GSG | 11/21/03 |
| Q.C. | AG | 11/21/03 |

INCH [mm]

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, SMP FEMALE TO SMP 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 | CODE IDENT. | DWG NO. | REV |
|---|---|---|---|
| 2:1 | 16301 | microbend 2SR-XX | H |

| REV. | DESCRIPTION | DATE | BY | APPROVED |
|---|---|---|---|---|
| H | ECN No. 12786 | 10/01/09 | GSG | |