

ASSEMBLY NO.	REF. NO.	DIM. "L"	2.0 GHz		26.5 GHz		50 GHz	
			VSWR	LOSS, dB	VSWR	LOSS, dB	VSWR	LOSS, dB
minibend QG-2.5	32081E-2-29898CR-2.5	2.50 (63.5)	1.20:1	0.19	1.45:1	0.62	1.55:1	0.99
minibend QG-3	32081E-2-29898CR-3	3.00 (76.2)	1.20:1	0.20	1.45:1	0.68	1.55:1	1.08
minibend QG-3.5	32081E-2-29898CR-3.5	3.50 (88.9)	1.20:1	0.22	1.45:1	0.74	1.55:1	1.16
minibend QG-4	32081E-2-29898CR-4	4.00 (101.6)	1.20:1	0.23	1.45:1	0.80	1.55:1	1.25
minibend QG-4.5	32081E-2-29898CR-4.5	4.50 (114.3)	1.20:1	0.25	1.45:1	0.86	1.55:1	1.34
minibend QG-5	32081E-2-29898CR-5	5.00 (127.0)	1.20:1	0.26	1.45:1	0.92	1.55:1	1.43
minibend QG-5.5	32081E-2-29898CR-5.5	5.50 (139.7)	1.20:1	0.28	1.45:1	0.98	1.55:1	1.51
minibend QG-6	32081E-2-29898CR-6	6.00 (152.4)	1.20:1	0.30	1.45:1	1.05	1.55:1	1.60
minibend QG-6.5	32081E-2-29898CR-6.5	6.50 (165.1)	1.20:1	0.31	1.45:1	1.11	1.55:1	1.69
minibend QG-7	32081E-2-29898CR-7	7.00 (177.8)	1.20:1	0.33	1.45:1	1.17	1.55:1	1.78
minibend QG-7.5	32081E-2-29898CR-7.5	7.50 (190.5)	1.20:1	0.34	1.45:1	1.23	1.55:1	1.86
minibend QG-8	32081E-2-29898CR-8	8.00 (203.2)	1.20:1	0.36	1.45:1	1.29	1.55:1	1.95
minibend QG-9	32081E-2-29898CR-9	9.00 (228.6)	1.20:1	0.39	1.45:1	1.41	1.55:1	2.13
minibend QG-10	32081E-2-29898CR-10	10.00 (254.0)	1.20:1	0.42	1.45:1	1.54	1.55:1	2.30
minibend QG-11	32081E-2-29898CR-11	11.00 (279.4)	1.20:1	0.45	1.45:1	1.66	1.55:1	2.48
minibend QG-12	32081E-2-29898CR-12	12.00 (304.8)	1.20:1	0.48	1.45:1	1.78	1.55:1	2.65
minibend QG-	32081E-2-29898CR-							

CONTROL DRAWING

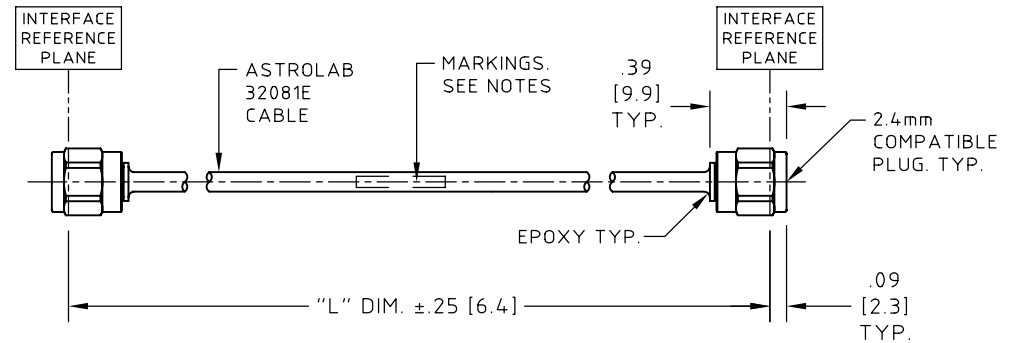
ALL minibend CABLE ASSEMBLIES ARE 99.9% LEAD FREE BY WEIGHT.



SHOWN ABOVE IS TYPICAL INSTALLATION.

NOTES:

- CABLE (EXCEEDS MIL-C-17):
 INNER CONDUCTOR... SILVER PLATED OFHC SOLID COPPER WIRE.
 DIELECTRIC... PTFE PER ASTM D-1710 OR ASTM D-4894.
 INNER BRAID... SILVER PLATED OFHC FLAT COPPER WIRE BRAID.
 BARRIER LAYER... POLYIMIDE/ALUMINUM TAPE.
 OUTER BRAID... 304 STAINLESS STEEL WIRE BRAID.
 OUTER JACKET... EXTRUDED FEP PER L-P-389.
- CONNECTORS MEET MIL-PRF-39012:
 BODIES, NUTS AND BACKNUTS.
 STEEL, CORROSION RESISTANT PER ASTM A-582,
 UNS No. S30300, COND. A, NON MAGNETIC.
 PASSIVATED PER SAE-AMS-2700 OR ASTM A-967.
 NO DICHROMATE SOLUTIONS USED.
 BACKNUT IS NICKEL ALLOY PLATED.
 CENTER CONDUCTOR
 BERYLLIUM COPPER ALLOY PER ASTM B-196,
 UNS No. C17300, TEMPER TD04(H).
 GOLD PLATED .000050 IN MIN. THK. (1.27 MICRO METERS)
 PER ASTM B-488, CODE C, TYPE II
 OVER
 NICKEL PLATE, .000050 IN MIN. THK. PER SAE-AMS-QQ-N-290,
 CLASS 1 OR ASTM B-689.
 DIELECTRIC
 POLYTETRAFLUOROETHYLENE (PTFE) PER ASTM D-1710
 OR ASTM D-4894, TYPE I, GRADE 1.
 EPOXY
 TWO-COMPONENT HIGH TEMPERATURE EPOXY SYSTEM.
 OUTGASSING:
 ALL MATERIALS USED MEET LOW OUTGASSING REQUIREMENTS
 PER NASA SP-R-0022A, OR
 ARE IN ACCORDANCE WITH NASA-MSFC HNBK 527 OR
 WERE PROCESSED IN ACCORDANCE WITH ASTM E 595 WITH
 TML < 1.0% AND CVCM < 0.1% (SUBJECTED TO VACUUM AT
 1X10 E-6 AND TEMP OF +125°C FOR 24 HRS,
 REF. NASA PUBLICATION GSFC RP 1124).
- ELECTRICAL CHARACTERISTICS (SEE MAXIMUM VALUES IN CHART).
- TECHNICAL DATA:
 OPERATING TEMPERATURE... -55°C TO +125°C.
 PULL STRENGTH TO 25 LBS.
- MARKING APPROXIMATELY CENTERED DIRECTLY ON CABLE AS FOLLOWS:
 "minibend QG-XX YYWW"
 WHERE "XX" DENOTES THE LENGTH OF THE CABLE ASSEMBLY, AND "YYWW"
 THE DATE CODE, YEAR AND WEEK DETERMINED BY PRODUCTION DATE.
 NO MARKING ON CABLE ASSEMBLIES "minibend QG-2.0" OR SHORTER.
 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. GSG	11/08/05
ELEC.	
MECH.	
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, 2.4mm (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.
	1:1	16301	minibend QG-XX
			REV

REV.	DESCRIPTION	DATE	BY	APPROVED