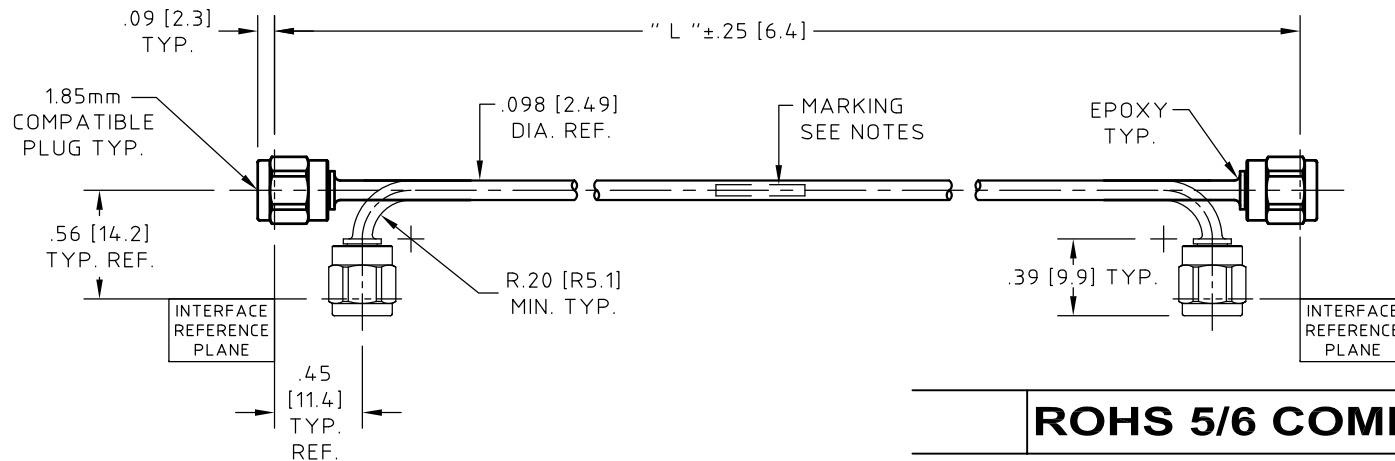


# CONTROL DRAWING

minibend VG-XX



**ROHS 5/6 COMPLIANT**

NOTES:

- DESCRIPTION,  
CABLE ASSEMBLY, 1.85mm COMPATIBLE PLUG TO 1.85mm COMPATIBLE PLUG, RUGGEDIZED AND SUITABLE FOR COMPLEX, CONGESTED INSTALLATIONS.  
WHEN INSTALLED AND BEND AT THE MINIMUM BEND RADIUS, CABLE ASSEMBLY WILL TOLERATE MULTIPLE ±90° ROTATIONS AT THE CABLE CONNECTOR JUNCTION.
- CABLE,  
COAXIAL CABLE HUBER+SUHNER Astrolab P/N 32081E 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-32-81 INTERFACE DIMENSIONS IAW MIL-STD-348.  
SEE HUBER+SUHNER Astrolab CONTROL DRAWING FOR MATERIALS AND FINISHES.
- CONNECTOR -B-, 1.85mm COMPATIBLE PLUG:  
SAME AS CONNECTOR -A-.

NOTES CONTINUED:

- MARKING:  
MARKING APPROXIMATELY CENTERED DIRECTLY ON CABLE AS FOLLOWS:  
**MINIBEND VG-xx YYWW**  
WHERE xx DENOTES THE LENGTH OF THE CABLE ASSEMBLY AND YYWW THE DATE CODE FOR DATE OF MANUFACTURE.  
NO MARKING ON CABLE ASSEMBLIES SHORTER THAN 3.00 [76.2].  
MARKING ON PACKAGING ONLY.
- 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. [111.2 N].
- ATTENUATION FORMULAS:  
8A. CALCULATE AT 50.0 GHz  
(dB) = 2.10 dB/FT. X L(ft.)+.55 dB  
8B. CALCULATE AT 65.0 GHz  
(dB) = 2.45 dB/FT. X L(ft.)+.60 dB

HUBER+SUHNER Astrolab PART NUMBER	DIMENSION "L"	2.0 GHz		26.5 GHz		50.0 GHz		65.0 GHz	
		VSWR	IL dB	VSWR	IL dB	VSWR	IL dB	VSWR	IL dB
minibend VG-2.5	2.50 [63.5]	1.20:1	0.19	1.45:1	0.62	1.55:1	0.99	1.60:1	1.12
minibend VG-3	3.00 [76.2]	1.20:1	0.20	1.45:1	0.68	1.55:1	1.08	1.60:1	1.22
minibend VG-3.5	3.50 [88.9]	1.20:1	0.22	1.45:1	0.74	1.55:1	1.16	1.60:1	1.32
minibend VG-4	4.00 [101.6]	1.20:1	0.23	1.45:1	0.80	1.55:1	1.25	1.60:1	1.42
minibend VG-4.5	4.50 [114.3]	1.20:1	0.25	1.45:1	0.86	1.55:1	1.34	1.60:1	1.53
minibend VG-5	5.00 [127.0]	1.20:1	0.26	1.45:1	0.92	1.55:1	1.43	1.60:1	1.63
minibend VG-5.5	5.50 [139.7]	1.20:1	0.28	1.45:1	0.98	1.55:1	1.51	1.60:1	1.73
minibend VG-6	6.00 [152.4]	1.20:1	0.30	1.45:1	1.05	1.55:1	1.60	1.60:1	1.83
minibend VG-6.5	6.50 [165.1]	1.20:1	0.31	1.45:1	1.11	1.55:1	1.69	1.60:1	1.93
minibend VG-7	7.00 [177.8]	1.20:1	0.33	1.45:1	1.17	1.55:1	1.78	1.60:1	2.03
minibend VG-7.5	7.50 [190.5]	1.20:1	0.34	1.45:1	1.23	1.55:1	1.86	1.60:1	2.14
minibend VG-8	8.00 [203.2]	1.20:1	0.36	1.45:1	1.29	1.55:1	1.95	1.60:1	2.24
minibend VG-9	9.00 [228.6]	1.20:1	0.39	1.45:1	1.41	1.55:1	2.13	1.60:1	2.44
minibend VG-10	10.00 [254.0]	1.20:1	0.42	1.45:1	1.54	1.55:1	2.30	1.60:1	2.64
minibend VG-11	11.00 [279.4]	1.20:1	0.45	1.45:1	1.66	1.55:1	2.48	1.60:1	2.85
minibend VG-12	12.00 [304.8]	1.20:1	0.48	1.45:1	1.78	1.55:1	2.65	1.60:1	3.05
minibend VG-		1.20:1		1.45:1		1.55:1		1.60:1	

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

NAME	DATE
PREP.	AP 09/16/03
ELEC.	RF 11/11/03
MECH.	GSG 11/11/03
Q.C.	AG 11/11/03

**HUBER+SUHNER**  
**Astrolab**

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

TITLE	<b>CABLE ASSEMBLY, 1.85mm COMPATIBLE PLUG</b>		
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 VG-XX
			REV L

L	ECN No. 15523	04/25/13	EB	
REV.	DESCRIPTION	DATE	BY	APPROVED