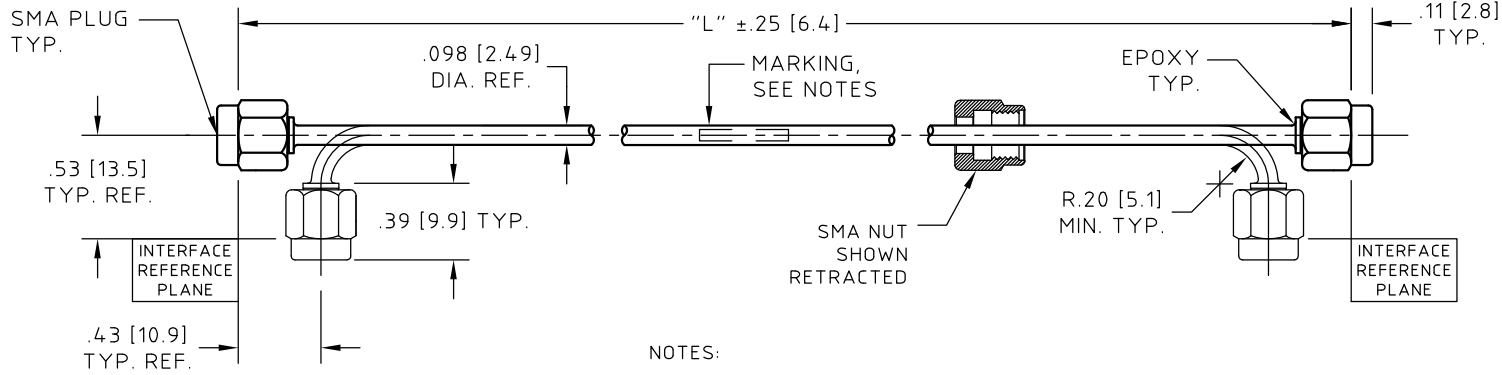


CONTROL DRAWING

minibend WR-XX

Q



NOTES:

- DESCRIPTION,
CABLE ASSEMBLY, SMA PLUG TO SMA PLUG,
WEATHERIZED/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-, SMA PLUG:
HUBER+SUHNER Astrolab P/N 29094CWR-32-81.
INTERFACE DIMENSIONS IAW MIL-STD-34.8.
SEE HUBER+SUHNER Astrolab CONTROL DRAWING
FOR MATERIALS AND FINISHES.
- CONNECTOR -B-, SMA PLUG:
SAME AS CONNECTOR -A-.
- MARKING:
MARKING APPROXIMATELY CENTERED DIRECTLY
ON CABLE AS FOLLOWS:
MINIBEND WR-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.

NOTES CONTINUED:

- ELECTRICAL CHARACTERISTICS:
IMPEDANCE,
50.0 Ohms NOMINAL.
FREQUENCY, INSERTION LOSS AND VSWR,
SEE CHART.
- ENVIRONMENTAL LIMITS:
TEMPERATURE / HUMIDITY RANGE,
-55°C TO +125°C / FROM 0 TO 100% RH.
MOISTURE RESISTANCE,
PER MIL-STD-202, METHOD 106.
THERMAL SHOCK,
PER MIL-STD-202, METHOD 107,
TEST CONDITION A.
VIBRATION,
PER MIL-STD-202, METHOD 214,
TEST CONDITION B.
SHOCK,
PER MIL-STD-202, METHOD 213,
TEST CONDITION A, 40Gs
MECHANICAL PERFORMANCE,
PULL STRENGTH TO 25.0 LBS. [111.2 N].
- ATTENUATION FORMULAS:
8A. CALCULATE AT 18.0 GHz
(dB) = 1.20 dB/FT. X L(ft.)+.22 dB
8B. CALCULATE AT 26.5 GHz
(dB) = 1.45 dB/FT. X L(ft.)+.31 dB

HUBER+SUHNER Astrolab PART NUMBER	DIMENSION "L" IN	2.0 GHz		12.4 GHz		18.0 GHz		26.5 GHz	
		VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB
minibend WR-2	2.00 [50.8]	1.20:1	0.17	1.25:1	0.31	1.35:1	0.44	1.40:1	0.53
minibend WR-2.5	2.50 [63.5]	1.20:1	0.18	1.25:1	0.36	1.35:1	0.50	1.40:1	0.60
minibend WR-3	3.00 [76.2]	1.20:1	0.19	1.25:1	0.40	1.35:1	0.55	1.40:1	0.66
minibend WR-3.5	3.50 [88.9]	1.20:1	0.21	1.25:1	0.44	1.35:1	0.60	1.40:1	0.72
minibend WR-4	4.00 [101.6]	1.20:1	0.23	1.25:1	0.48	1.35:1	0.65	1.40:1	0.78
minibend WR-4.5	4.50 [114.3]	1.20:1	0.24	1.25:1	0.54	1.35:1	0.70	1.40:1	0.84
minibend WR-5	5.00 [127.0]	1.20:1	0.26	1.25:1	0.57	1.35:1	0.75	1.40:1	0.90
minibend WR-5.5	5.50 [139.7]	1.20:1	0.27	1.25:1	0.62	1.35:1	0.80	1.40:1	0.96
minibend WR-6	6.00 [152.4]	1.20:1	0.29	1.25:1	0.65	1.35:1	0.85	1.40:1	1.02
minibend WR-6.5	6.50 [165.1]	1.20:1	0.30	1.25:1	0.70	1.35:1	0.90	1.40:1	1.08
minibend WR-7	7.00 [177.8]	1.20:1	0.32	1.25:1	0.74	1.35:1	0.95	1.40:1	1.15
minibend WR-8	8.00 [203.2]	1.20:1	0.35	1.25:1	0.82	1.35:1	1.05	1.40:1	1.27
minibend WR-9	9.00 [228.6]	1.20:1	0.38	1.25:1	0.91	1.35:1	1.15	1.40:1	1.39
minibend WR-10	10.00 [254.0]	1.20:1	0.41	1.25:1	0.98	1.35:1	1.24	1.40:1	1.51
minibend WR-11	11.00 [279.4]	1.20:1	0.44	1.25:1	1.07	1.35:1	1.34	1.40:1	1.63
minibend WR-12	12.00 [304.8]	1.20:1	0.47	1.25:1	1.15	1.35:1	1.42	1.40:1	1.76
minibend WR-13	13.00 [330.2]	1.20:1	0.50	1.25:1	1.23	1.35:1	1.53	1.40:1	1.88
minibend WR-14	14.00 [355.6]	1.20:1	0.53	1.25:1	1.30	1.35:1	1.62	1.40:1	2.00
minibend WR-15	15.00 [381.0]	1.20:1	0.57	1.25:1	1.40	1.35:1	1.73	1.40:1	2.12
minibend WR-16	16.00 [406.4]	1.20:1	0.60	1.25:1	1.47	1.35:1	1.82	1.40:1	2.24
minibend WR-17	17.00 [431.8]	1.20:1	0.63	1.25:1	1.55	1.35:1	1.92	1.40:1	2.36
minibend WR-18	18.00 [457.2]	1.20:1	0.66	1.25:1	1.64	1.35:1	2.02	1.40:1	2.49
minibend WR-19	19.00 [482.6]	1.20:1	0.69	1.25:1	1.72	1.35:1	2.12	1.40:1	2.61
minibend WR-20	20.00 [508.0]	1.20:1	0.72	1.25:1	1.80	1.35:1	2.22	1.40:1	2.73
minibend WR-		1.20:1		1.25:1		1.35:1		1.40:1	

ROHS 5/6 COMPLIANT

SEE NOTE 8

INCH [mm]	NAME	DATE		
UNLESS OTHERWISE SPECIFIED CONCENTRICITY .004 T.I.R. CORNERS AND FILLETS .005 MAX. RADIUS OR CHAMFER. SURFACE FINISH 63 RMS MICROINCHES OR BETTER.	PREP. IS	12/04/02		
FRACTIONS ± 1/16	ELEC.			
X ± .030	MECH.			
XX ± .015	Q.C.		THIS DRAWING CONTAINS PATENTABLE AND PROPRIETARY INFORMATION. THE DESIGN CANNOT BE USED WITHOUT WRITTEN PERMISSION OF HUBER + SUHNER ASTROLAB.	
XXX ± .005	TITLE		CABLE ASSEMBLY, WEATHERIZED/RUGGEDIZED	
ANGLES ± 1°				
DO NOT SCALE DRAWING	SCALE	CODE IDENT.		DWG NO.
	1:1	16301		minibend WR-XX
	THDS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STDS. FOR FEDERAL SERVICES 1950 SUPL. TO HANDBOOK H 28.	REV	Q	

Q	ECN No.15538	05/03/13	GS	
REV.	DESCRIPTION	DATE	BY	APPROVED