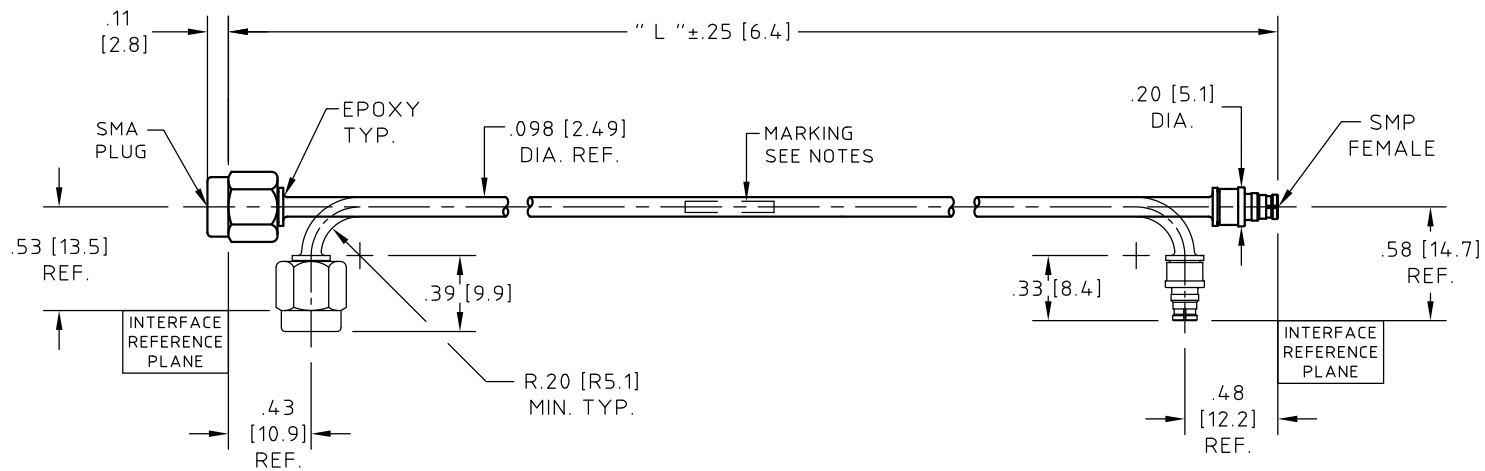


CONTROL DRAWING

minibend SR-XX

U



NOTES:

- DESCRIPTION,**
CABLE ASSEMBLY, SMA PLUG TO SMP FEMALE, 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 29094CR-32-81
INTERFACE DIMENSIONS IAW MIL-STD-348.
SEE HUBER+SUHNER Astrolab CONTROL DRAWING FOR MATERIALS AND FINISHES.
- CONNECTOR -B-, SMP FEMALE:**
HUBER+SUHNER ASTROLAB P/N 29473CR-32-81-1
INTERFACE DIMENSIONS IAW MIL-STD-348.
SEE HUBER+SUHNER Astrolab CONTROL DRAWING FOR MATERIALS AND FINISHES.

NOTES CONTINUED:

- MARKING:**
MARKING APPROXIMATELY CENTERED DIRECTLY ON CABLE AS FOLLOWS:
MINIBEND SR-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 12.4 GHz
(dB) = .97 dB/FT. X L(ft.)+.23 dB
8B. CALCULATE AT 20.0 GHz
(dB) = 1.25 dB/FT. X L(ft.)+.42 dB

HUBER+SUHNER Astrolab PART NUMBER	DIMENSION "L"	2.0 GHz		12.4 GHz		20.0 GHz	
		VSWR	IL, dB	VSWR	IL, dB	VSWR	IL, dB
minibend SR-2.5	2.50 [63.5]	1.25:1	0.20	1.30:1	0.40	1.45:1	0.68
minibend SR-3	3.00 [76.2]	1.25:1	0.21	1.30:1	0.44	1.45:1	0.73
minibend SR-3.5	3.50 [88.9]	1.25:1	0.23	1.30:1	0.48	1.45:1	0.78
minibend SR-4	4.00 [101.6]	1.25:1	0.25	1.30:1	0.52	1.45:1	0.84
minibend SR-4.5	4.50 [114.3]	1.25:1	0.26	1.30:1	0.58	1.45:1	0.89
minibend SR-5	5.00 [127.0]	1.25:1	0.28	1.30:1	0.61	1.45:1	0.94
minibend SR-5.5	5.50 [139.7]	1.25:1	0.29	1.30:1	0.66	1.45:1	0.99
minibend SR-6	6.00 [152.4]	1.25:1	0.31	1.30:1	0.69	1.45:1	1.05
minibend SR-6.5	6.50 [165.1]	1.25:1	0.32	1.30:1	0.74	1.45:1	1.10
minibend SR-7	7.00 [177.8]	1.25:1	0.34	1.30:1	0.78	1.45:1	1.15
minibend SR-8	8.00 [203.2]	1.25:1	0.37	1.30:1	0.86	1.45:1	1.25
minibend SR-9	9.00 [228.6]	1.25:1	0.40	1.30:1	0.95	1.45:1	1.36
minibend SR-10	10.00 [254.0]	1.25:1	0.43	1.30:1	1.02	1.45:1	1.46
minibend SR-11	11.00 [279.4]	1.25:1	0.46	1.30:1	1.11	1.45:1	1.57
minibend SR-12	12.00 [304.8]	1.25:1	0.49	1.30:1	1.19	1.45:1	1.67
minibend SR-13	13.00 [330.2]	1.25:1	0.52	1.30:1	1.27	1.45:1	1.77
minibend SR-14	14.00 [355.6]	1.25:1	0.55	1.30:1	1.34	1.45:1	1.88
minibend SR-15	15.00 [381.0]	1.25:1	0.59	1.30:1	1.44	1.45:1	1.98
minibend SR-16	16.00 [406.4]	1.25:1	0.62	1.30:1	1.51	1.45:1	2.09
minibend SR-17	17.00 [431.8]	1.25:1	0.65	1.30:1	1.60	1.45:1	2.19
minibend SR-18	18.00 [457.2]	1.25:1	0.68	1.30:1	1.69	1.45:1	2.30
minibend SR-		1.25:1		1.30:1		1.45:1	

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. GSG	05/09/01
ELEC. RF	05/10/01
MECH. DPD	05/10/01
Q.C.	

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, SMA PLUG TO SMP FEMALE, RUGGEDIZED			
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
	1:1	16301	minibend SR-XX	U

ROHS 5/6 COMPLIANT

U	ECN No. 15507	04/22/13	EB	
REV.	DESCRIPTION	DATE	BY	APPROVED