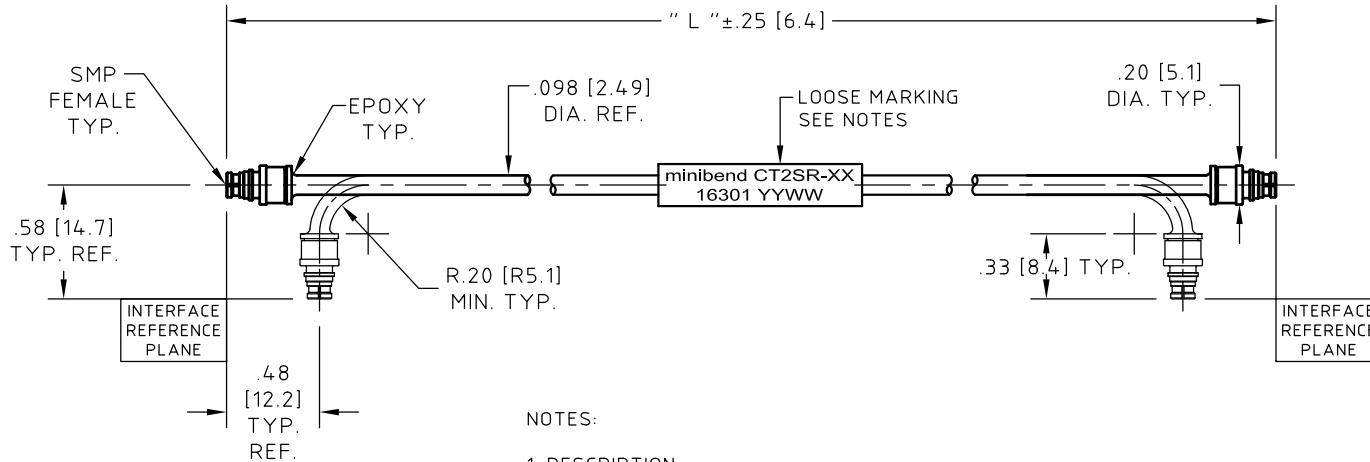


# CONTROL DRAWING

minibend CT2SR-XX

B



**NOTES:**

- DESCRIPTION,**  
CABLE ASSEMBLY, SMP FEMALE 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 32381E MEETS OR EXCEEDS MIL-DTL-17.  
SEE HUBER+SUHNER Astrolab CONTROL DRAWING FOR MATERIALS AND FINISHES.
- CONNECTOR -A-, SMP FEMALE:**  
HUBER+SUHNER ASTROLAB P/N 29573CR-32381 INTERFACE DIMENSIONS IAW MIL-STD-348.  
SEE HUBER+SUHNER Astrolab CONTROL DRAWING FOR MATERIALS AND FINISHES.
- CONNECTOR -B-, SMP FEMALE:**  
SAME AS CONNECTOR -A-.
- MARKING:**  
LOOSE FITTING WHITE SLEEVING CAPTIVATED ON THE CABLE ASSEMBLY.  
MARKING INCLUDES THE HUBER+SUHNER Astrolab PART NUMBER, CAGE CODE AND THE DATE CODE FOR DATE OF MANUFACTURE.

**NOTES CONTINUED:**

- OTHER MARKING AS DEFINED BY CUSTOMER. NO MARKING ON CABLE ASSEMBLIES SHORTER THAN 3.00 [76.2]. MARKING ON PACKAGING ONLY.
- 6. ELECTRICAL CHARACTERISTICS:**  
IMPEDANCE, 50.0 Ohms NOMINAL.  
FREQUENCY, 40.0 GHz MAX.  
INSERTION LOSS AND VSWR SEE CHART.
- 7. MECHANICAL:**  
OPERATING TEMPERATURE RANGE, -55° C TO +125° C.  
PULL STRENGTH TO 25.0 LBS [111.2 N].
- 8. ATTENUATION FORMULAS:**  
8A. CALCULATE AT 12.4 GHz (dB) = .97 dB/FT. X L(ft.).+.25 dB  
8B. CALCULATE AT 18.0 GHz (dB) = 1.20 dB/FT. X L(ft.).+.38 dB
- 9. PHASE STABILITY VS TEMPERATURE,** (PPM) = 300 MAX., -55° C TO 125° C.

HUBER+SUHNER Astrolab PART NUMBER	DIMENSION "L"	2.0 GHz		12.4 GHz		18.0 GHz	
		VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB
minibend CT2SR-2.5	2.50 [63.5]	1.15:1	0.21	1.28:1	0.44	1.35:1	0.66
minibend CT2SR-3	3.00 [76.2]	1.15:1	0.22	1.28:1	0.48	1.35:1	0.71
minibend CT2SR-3.5	3.50 [88.9]	1.15:1	0.24	1.28:1	0.52	1.35:1	0.76
minibend CT2SR-4	4.00 [101.6]	1.15:1	0.26	1.28:1	0.56	1.35:1	0.81
minibend CT2SR-4.5	4.50 [114.3]	1.15:1	0.27	1.28:1	0.62	1.35:1	0.86
minibend CT2SR-5	5.00 [127.0]	1.15:1	0.29	1.28:1	0.65	1.35:1	0.91
minibend CT2SR-5.5	5.50 [139.7]	1.15:1	0.30	1.28:1	0.70	1.35:1	0.96
minibend CT2SR-6	6.00 [152.4]	1.15:1	0.32	1.28:1	0.73	1.35:1	1.01
minibend CT2SR-6.5	6.50 [165.1]	1.15:1	0.33	1.28:1	0.78	1.35:1	1.06
minibend CT2SR-7	7.00 [177.8]	1.15:1	0.35	1.28:1	0.82	1.35:1	1.11
minibend CT2SR-8	8.00 [203.2]	1.15:1	0.38	1.28:1	0.90	1.35:1	1.21
minibend CT2SR-9	9.00 [228.6]	1.15:1	0.41	1.28:1	0.99	1.35:1	1.31
minibend CT2SR-10	10.00 [254.0]	1.15:1	0.44	1.28:1	1.06	1.35:1	1.40
minibend CT2SR-11	11.00 [279.4]	1.15:1	0.47	1.28:1	1.15	1.35:1	1.50
minibend CT2SR-12	12.00 [304.8]	1.15:1	0.50	1.28:1	1.23	1.35:1	1.58
minibend CT2SR-13	13.00 [330.2]	1.15:1	0.53	1.28:1	1.31	1.35:1	1.69
minibend CT2SR-14	14.00 [355.6]	1.15:1	0.56	1.28:1	1.38	1.35:1	1.78
minibend CT2SR-15	15.00 [381.0]	1.15:1	0.60	1.28:1	1.48	1.35:1	1.89
minibend CT2SR-16	16.00 [406.4]	1.15:1	0.63	1.28:1	1.55	1.35:1	1.98
minibend CT2SR-							

SEE NOTE 8

**ROHS 5/6 COMPLIANT**

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. EB	05/13/15
ELEC. RF	05/14/15
MECH. GSG	05/14/15
Q.C.	

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

TITLE <b>CABLE ASSEMBLY, SMP FEMALE TO SMP FEMALE, RUGGEDIZED</b>		SCALE 1:1	CODE IDENT. 16301	DWG NO. minibend CT2SR-XX	REV B
THDS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STDS. FOR FEDERAL SERVICES 1950 SUPL. TO HANDBOOK H 28.					

B	NOTE 9: TEMPERATURE RANGE WAS -40°C TO 85°C	06/11/15	GS	
REV.	DESCRIPTION	DATE	BY	APPROVED