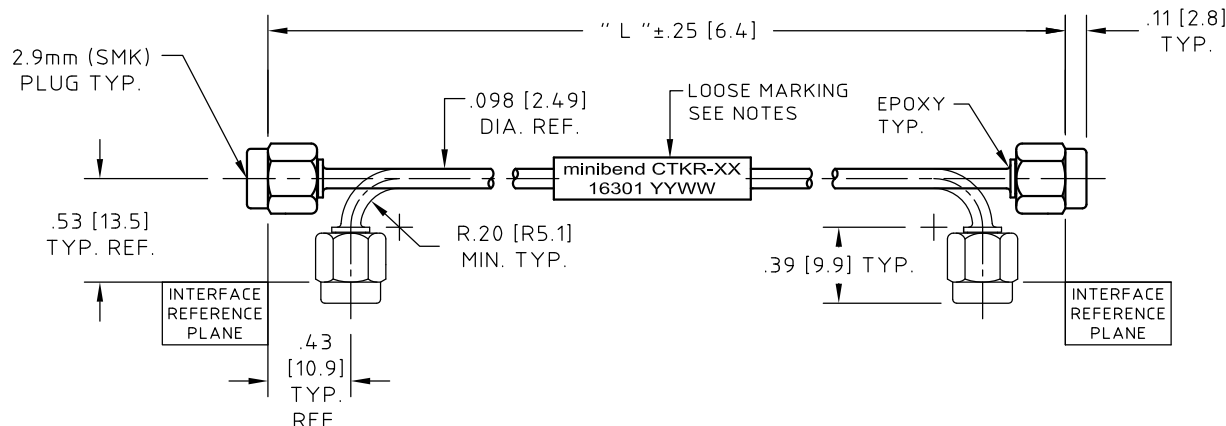


CONTROL DRAWING

minibend CTKR-XX

B



NOTES:

- DESCRIPTION:
CABLE ASSEMBLY, 2.9mm (SMK) PLUG TO 2.9mm (SMK) PLUG, RUGGEDIZED AND SUITABLE FOR COMPLEX, CONGESTED INSTALLATIONS.
WHEN INSTALLED AND BEND AT THE MINIMUM BEND RADIUS, CABLE ASSEMBLY WILL TOLERATE MULTIPLE $\pm 90^\circ$ 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-, 2.9mm (SMK) PLUG:
HUBER+SUHNER Astrolab P/N 29094KCR-32381 INTERFACE DIMENSIONS IAW MIL-STD-348.
SEE HUBER+SUHNER Astrolab CONTROL DRAWING FOR MATERIALS AND FINISHES.
- CONNECTOR -B-, 2.9mm (SMK) PLUG:
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.
- ELECTRICAL CHARACTERISTICS:
IMPEDANCE,
50.0 Ohms NOMINAL.
FREQUENCY, INSERTION LOSS AND VSWR
SEE CHART.
 - MECHANICAL:
OPERATING TEMPERATURE RANGE,
 -55°C TO $+125^\circ\text{C}$.
PULL STRENGTH TO 25.0 LBS [111.2 N].
 - ATTENUATION FORMULAS:
8A. CALCULATE AT 26.5 GHz
(dB) = 1.45 dB/FT. X L(ft.)+.31 dB
8B. CALCULATE AT 40.0 GHz
(dB) = 1.72 dB/FT. X L(ft.)+.50 dB
 - PHASE STABILITY VS TEMPERATURE,
(PPM) = 300 MAX., -55°C TO 125°C .

HUBER+SUHNER Astrolab PART NUMBER	DIMENSION "L"	2.0 GHz		26.5 GHz		40.0 GHz	
		VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB
minibend CTKR-2.5	2.50 [63.5]	1.10:1	0.18	1.30:1	0.61	1.45:1	0.86
minibend CTKR-3	3.00 [76.2]	1.10:1	0.19	1.30:1	0.67	1.45:1	0.93
minibend CTKR-3.5	3.50 [88.9]	1.10:1	0.21	1.30:1	0.73	1.45:1	1.00
minibend CTKR-4	4.00 [101.6]	1.10:1	0.22	1.30:1	0.79	1.45:1	1.07
minibend CTKR-4.5	4.50 [114.3]	1.10:1	0.24	1.30:1	0.85	1.45:1	1.15
minibend CTKR-5	5.00 [127.0]	1.10:1	0.25	1.30:1	0.91	1.45:1	1.22
minibend CTKR-5.5	5.50 [139.7]	1.10:1	0.27	1.30:1	0.97	1.45:1	1.29
minibend CTKR-6	6.00 [152.4]	1.10:1	0.28	1.30:1	1.04	1.45:1	1.36
minibend CTKR-6.5	6.50 [165.1]	1.10:1	0.30	1.30:1	1.10	1.45:1	1.43
minibend CTKR-7	7.00 [177.8]	1.10:1	0.31	1.30:1	1.16	1.45:1	1.50
minibend CTKR-8	8.00 [203.2]	1.10:1	0.34	1.30:1	1.28	1.45:1	1.65
minibend CTKR-9	9.00 [228.6]	1.10:1	0.37	1.30:1	1.40	1.45:1	1.79
minibend CTKR-10	10.00 [254.0]	1.10:1	0.40	1.30:1	1.52	1.45:1	1.93
minibend CTKR-11	11.00 [279.4]	1.10:1	0.43	1.30:1	1.64	1.45:1	2.08
minibend CTKR-12	12.00 [304.8]	1.10:1	0.46	1.30:1	1.76	1.45:1	2.22
minibend CTKR-13	13.00 [330.2]	1.10:1	0.49	1.30:1	1.88	1.45:1	2.36
minibend CTKR-14	14.00 [355.6]	1.10:1	0.52	1.30:1	2.00	1.45:1	2.51
minibend CTKR-15	15.00 [381.0]	1.10:1	0.55	1.30:1	2.12	1.45:1	2.65
minibend CTKR-16	16.00 [406.4]	1.10:1	0.58	1.30:1	2.24	1.45:1	2.79
minibend CTKR-							

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	$\pm 1/32$
X	$\pm .015$
XX	$\pm .010$
XXX	$\pm .005$
ANGLES	$\pm 1^\circ$
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	SCALE	CODE IDENT.	DWG NO.	REV
CABLE ASSEMBLY, 2.9mm PLUG TO 2.9mm PLUG, RUGGEDIZED	1:1	16301	minibend CTKR-XX	B

THDS. TO BE IN ACCORD WITH U.S.
DEPT. OF COMM. SCREW THD. STDS.
FOR FEDERAL SERVICES 1950 SUPL.
TO HANDBOOK H 28.

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

HUBER+SUHNER:

[MINIBEND CTKR-12](#) [MINIBEND CTKR-2,5](#) [MINIBEND CTKR-16](#) [MINIBEND CTKR-4](#) [MINIBEND CTKR-8](#)
[MINIBEND CTKR-5](#) [MINIBEND CTKR-13](#) [MINIBEND CTKR-11](#) [MINIBEND CTKR-3](#) [MINIBEND CTKR-6](#)