

# CONTROL DRAWING

microbend 23R-XX

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H+S Astrolab PART NUMBER	DIMENSION "L"	2.0 GHz		12.4 GHz		18.0 GHz		40.0 GHz	
		VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB
microbend 23R-2.5	2.50 (63.5)	1.20:1	0.30	1.30:1	0.60	1.40:1	0.74	1.55:1	1.27
microbend 23R-3	3.00 (76.2)	1.20:1	0.32	1.30:1	0.65	1.40:1	0.81	1.55:1	1.36
microbend 23R-3.5	3.50 (88.9)	1.20:1	0.33	1.30:1	0.70	1.40:1	0.87	1.55:1	1.46
microbend 23R-4	4.00 (101.6)	1.20:1	0.35	1.30:1	0.75	1.40:1	0.93	1.55:1	1.55
microbend 23R-4.5	4.50 (114.3)	1.20:1	0.37	1.30:1	0.80	1.40:1	0.99	1.55:1	1.64
microbend 23R-5	5.00 (127.0)	1.20:1	0.39	1.30:1	0.85	1.40:1	1.05	1.55:1	1.74
microbend 23R-5.5	5.50 (139.7)	1.20:1	0.41	1.30:1	0.90	1.40:1	1.11	1.55:1	1.83
microbend 23R-6	6.00 (152.4)	1.20:1	0.43	1.30:1	0.95	1.40:1	1.17	1.55:1	1.93
microbend 23R-7	7.00 (177.8)	1.20:1	0.47	1.30:1	1.04	1.40:1	1.29	1.55:1	2.11
microbend 23R-8	8.00 (203.2)	1.20:1	0.51	1.30:1	1.14	1.40:1	1.41	1.55:1	2.30
microbend 23R-9	9.00 (228.6)	1.20:1	0.55	1.30:1	1.24	1.40:1	1.54	1.55:1	2.49
microbend 23R-10	10.00 (254.0)	1.20:1	0.58	1.30:1	1.34	1.40:1	1.66	1.55:1	2.68
microbend 23R-11	11.00 (279.4)	1.20:1	0.62	1.30:1	1.43	1.40:1	1.78	1.55:1	2.86
microbend 23R-12	12.00 (304.8)	1.20:1	0.66	1.30:1	1.53	1.40:1	1.90	1.55:1	3.05
microbend 23R-									

NOTES:

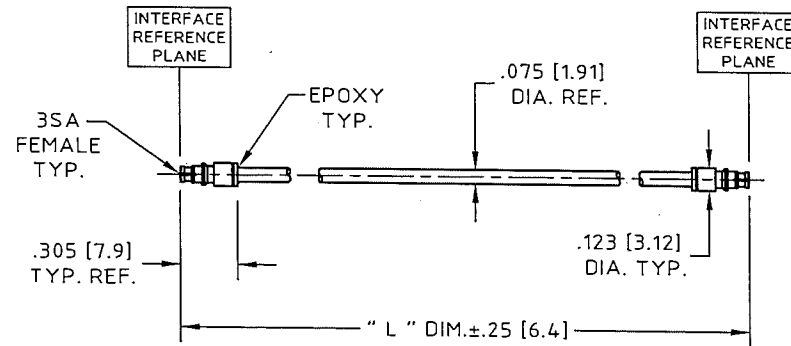
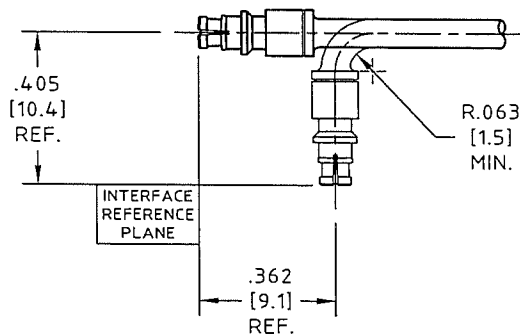
- DESCRIPTION,  
CABLE ASSEMBLY, 3SA FEMALE TO 3SA FEMALE  
RUGGEDIZED AND SUITABLE FOR COMPLEX,  
CONGESTED INSTALLATIONS.  
WHEN INSTALLED AND BENT AT THE MINIMUM BEND  
RADIUS, microbend 23R WILL TOLERATE  
MULTIPLE ±90° ROTATIONS AT THE  
CABLE-CONNECTOR JUNCTION.
- CABLE,  
COAXIAL CABLE H+S Astrolab P/N 32041E.  
MEETS OR EXCEEDS MIL-DTL-17.  
SEE H+S Astrolab CONTROL DRAWING  
FOR MATERIALS AND FINISHES.
- CONNECTOR -A-, 3SA FEMALE:  
H+S Astrolab P/N 29967CR-32-41, INTERCHANGEABLE  
WITH FEMALE "MSSS" CONNECTORS.  
MATED PERFORMANCE MEETS OR EXCEEDS THE  
REQUIREMENTS OF "MSSS" CONNECTORS.  
SEE H+S Astrolab CONTROL DRAWING  
FOR MATERIALS AND FINISHES.  
"MSSS" IS A TRADE NAME OF "MICRO-MODE".

NOTES CONTINUED:

- CONNECTOR -B-, 3SA FEMALE:  
SAME AS CONNECTOR -A-.
- MARKING:  
DIRECTLY ON CABLE, NONE.  
ALL MARKING WILL BE DONE  
ON PACKAGING.
- ELECTRICAL CHARACTERISTICS:  
IMPEDANCE,  
50.0 Ohms NOMINAL.  
FREQUENCY,  
75.0 GHz MAX.  
INSERTION LOSS AND VSWR  
SEE CHART.
- MECHANICAL:  
OPERATING TEMPERATURE RANGE,  
-55° C TO +125° C.  
MECHANICAL PERFORMANCE,  
GUARANTEED 10.0 LBS.  
(45.0 N) PULL FORCE.

## ROHS 6 COMPLIANT

SHOWN BELOW IS TYPICAL INSTALLATION  
SCALE: 2:1



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	10/09/07	
ELEC. RF	10/09/07	
MECH. AW	10/09/07	
Q.C.		THIS DRAWING CONTAINS PATENTABLE AND PROPRIETARY INFORMATION. THE DESIGN CANNOT BE USED WITHOUT WRITTEN PERMISSION OF HUBER + SUHNER ASTROLAB.

TITLE  
CABLE ASSEMBLY, microbend TYPE, 3SA FEMALE TO 3SA FEMALE

F	COMPANY LOGO UPDATED	01/15/13	KC ENC 3							
REV.	DESCRIPTION	DATE	BY	APPROVED	THDS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STDS. FOR FEDERAL SERVICES 1950 SUPPL. TO HANDBOOK H 28.	SCALE 1:1	CODE IDENT. 16301	DWG NO.	microbend 23R-XX	REV F