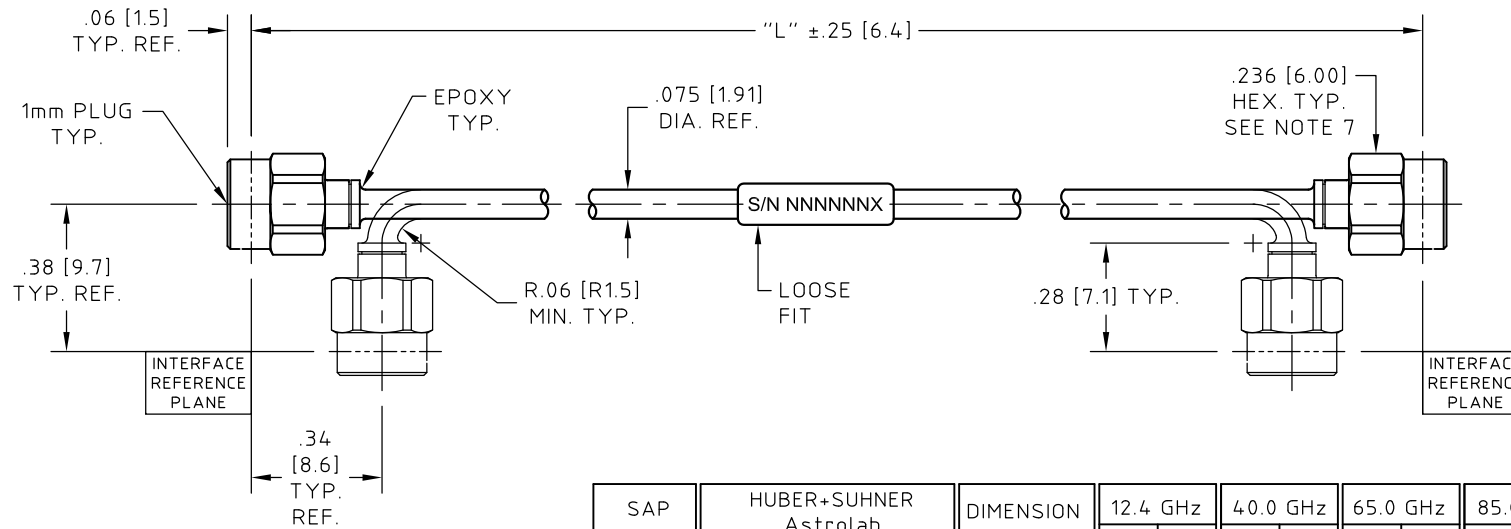


# CONTROL DRAWING

DATA\_microbend 1R-xxHT

A



SAP ID.	HUBER+SUHNER Astrolab PART NUMBER	DIMENSION "L"	12.4 GHz		40.0 GHz		65.0 GHz		85.0 GHz	
			VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB
* 80394005	DATA_microbend 1R-4HT	4.00 (101.6)	1.27:1	0.66	1.50:1	1.27	1.60:1	1.65	1.80:1	1.90
* 80394007	DATA_microbend 1R-6HT	6.00 (152.4)	1.27:1	0.86	1.50:1	1.65	1.60:1	2.14	1.80:1	2.48
* 80394008	DATA_microbend 1R-12HT	12.00 (304.8)	1.27:1	1.45	1.50:1	2.77	1.60:1	3.62	1.80:1	4.20
	DATA_microbend 1R- HT									

**NOTES:**

1. DESCRIPTION:  
CABLE ASSEMBLY, 1 mm PLUG TO 1 mm PLUG, RUGGEDIZED AND SUITABLE FOR COMPLEX, CONGESTED INSTALLATIONS, 100% ROHS COMPLIANT. WHEN INSTALLED AND BEND AT THE MINIMUM BEND RADIUS, CABLE ASSEMBLY WILL TOLERATE MULTIPLE ±90° ROTATIONS AT THE CABLE CONNECTOR JUNCTION.  
\* ASSEMBLIES IN STOCK READY FOR SHIPPING: 4, 6 & 12 LENGTHS
2. CABLE,  
COAXIAL CABLE HUBER+SUHNER Astrolab P/N 32041E MEETS OR EXCEEDS MIL-DTL-17. SEE HUBER+SUHNER Astrolab CONTROL DRAWING FOR MATERIALS AND FINISHES.

**NOTES CONTINUED:**

3. CONNECTOR -A-, 1mm PLUG:  
HUBER+SUHNER Astrolab P/N 29840HTCR-32-41-2 INTERFACE IS COMPATIBLE WITH IEEE P287 SPECIFICATION FOR 1 mm GPC. SEE HUBER+SUHNER Astrolab CONTROL DRAWING FOR MATERIALS AND FINISHES.
4. CONNECTOR -B-, 1 mm PLUG:  
SAME AS CONNECTOR -A-.
5. MARKING:  
SERIAL NUMBER ONLY. ALL OTHER MARKING WILL BE DONE ON PACKAGING.

**NOTES CONTINUED:**

6. ELECTRICAL CHARACTERISTICS:  
IMPEDANCE  
50.0 Ohms NOMINAL.  
FREQUENCY  
85.0 GHz MAX.  
INSERTION LOSS AND VSWR,  
SEE CHART.  
SERIALIZED DATA PROVIDED TO 85 GHz.
7. MECHANICAL:  
OPERATING TEMPERATURE RANGE,  
-55° C TO +125° C.  
PULL STRENGTH TO 10.0 LBs. [44.5N].  
TORQUE 1mm NUT TO 4.0±.5 IN-LBS. [0.45±0.05Nm].

**RoHS 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. EF	09/30/16
ELEC.	
MECH.	
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 <b>CABLE ASSEMBLY, microbend TYPE, 1 mm PLUG TO 1 mm PLUG</b>		SCALE 2:1	CODE IDENT. 16301	DWG NO. DATA_microbend 1R-xxHT	REV A
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A	ECN No. 18618	09/30/16	EF	
REV.	DESCRIPTION	DATE	BY	APPROVED

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