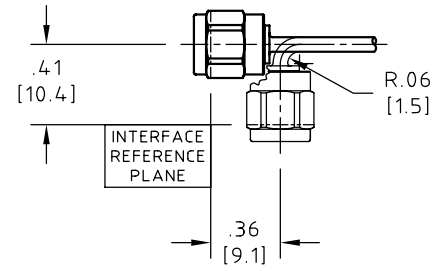


ASSY No.	REFERENCE	DIM. "L"	12.4 GHz		18.0 GHz		40.0 GHz		65.0 GHz	
			VSWR	LOSS, dB	VSWR	LOSS, dB	VSWR	LOSS, dB	VSWR	LOSS, dB
microbend V-2.5	32041E-2-29890CR-2.5	2.50 (63.5)	1.27 : 1	0.47	1.35 : 1	0.55	1.55 : 1	0.99	1.65 : 1	1.29
microbend V-3	32041E-2-29890CR-3	3.00 (76.2)	1.27 : 1	0.52	1.35 : 1	0.62	1.55 : 1	1.09	1.65 : 1	1.41
microbend V-3.5	32041E-2-29890CR-3.5	3.50 (88.9)	1.27 : 1	0.57	1.35 : 1	0.68	1.55 : 1	1.18	1.65 : 1	1.54
microbend V-4	32041E-2-29890CR-4	4.00 (101.6)	1.27 : 1	0.62	1.35 : 1	0.74	1.55 : 1	1.27	1.65 : 1	1.66
microbend V-4.5	32041E-2-29890CR-4.5	4.50 (114.3)	1.27 : 1	0.67	1.35 : 1	0.80	1.55 : 1	1.37	1.65 : 1	1.78
microbend V-5	32041E-2-29890CR-5	5.00 (127.0)	1.27 : 1	0.72	1.35 : 1	0.86	1.55 : 1	1.46	1.65 : 1	1.91
microbend V-5.5	32041E-2-29890CR-5.5	5.50 (139.7)	1.27 : 1	0.77	1.35 : 1	0.92	1.55 : 1	1.56	1.65 : 1	2.03
microbend V-6	32041E-2-29890CR-6	6.00 (152.4)	1.27 : 1	0.82	1.35 : 1	0.98	1.55 : 1	1.65	1.65 : 1	2.16
microbend V-7	32041E-2-29890CR-7	7.00 (177.8)	1.27 : 1	0.92	1.35 : 1	1.10	1.55 : 1	1.84	1.65 : 1	2.40
microbend V-8	32041E-2-29890CR-8	8.00 (203.2)	1.27 : 1	1.02	1.35 : 1	1.22	1.55 : 1	2.03	1.65 : 1	2.65
microbend V-9	32041E-2-29890CR-9	9.00 (228.6)	1.27 : 1	1.12	1.35 : 1	1.35	1.55 : 1	2.22	1.65 : 1	2.90
microbend V-10	32041E-2-29890CR-10	10.00 (254.0)	1.27 : 1	1.22	1.35 : 1	1.47	1.55 : 1	2.40	1.65 : 1	3.15
microbend V-11	32041E-2-29890CR-11	11.00 (279.4)	1.27 : 1	1.32	1.35 : 1	1.59	1.55 : 1	2.59	1.65 : 1	3.39
microbend V-12	32041E-2-29890CR-12	12.00 (304.8)	1.27 : 1	1.42	1.35 : 1	1.71	1.55 : 1	2.78	1.65 : 1	3.64
microbend V-13	32041E-2-29890CR-13	13.00 (330.2)	1.27 : 1	1.52	1.35 : 1	1.83	1.55 : 1	2.97	1.65 : 1	3.89
microbend V-14	32041E-2-29890CR-14	14.00 (355.6)	1.27 : 1	1.62	1.35 : 1	1.95	1.55 : 1	3.16	1.65 : 1	4.14
microbend V-15	32041E-2-29890CR-15	15.00 (381.0)	1.27 : 1	1.72	1.35 : 1	2.08	1.55 : 1	3.35	1.65 : 1	4.38
microbend V-16	32041E-2-29890CR-16	16.00 (406.4)	1.27 : 1	1.82	1.35 : 1	2.20	1.55 : 1	3.53	1.65 : 1	4.63
microbend V-	32041E-2-29890CR-									

CONTROL DRAWING

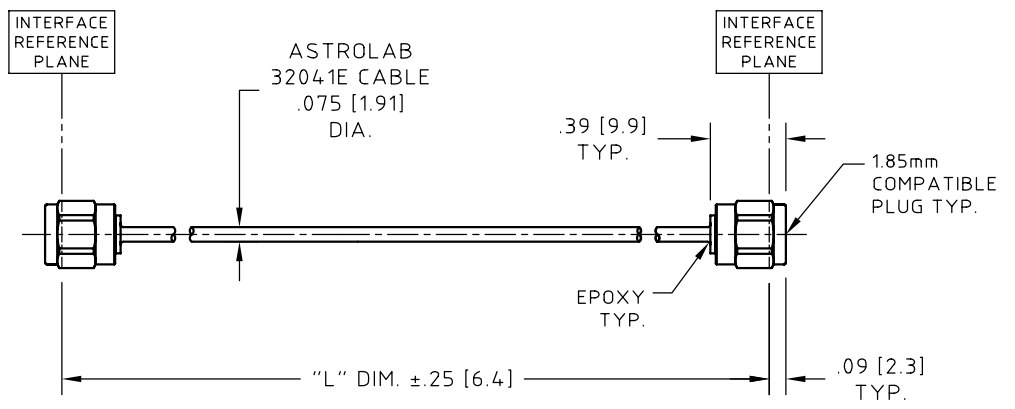
microbend V-XX  
F

ALL microbend CABLE ASSEMBLIES ARE 99.9% LEAD FREE BY WEIGHT



SHOWN ABOVE IS TYPICAL INSTALLATION

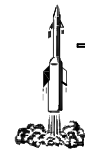
- NOTES:
- CABLE EXCEEDS MIL-DTL-17.  
INNER CONDUCTOR... SILVER PLATED OFHC SOLID COPPER WIRE.  
DIELECTRIC... TFE FLUOROCARBON.  
INNER BRAID... SILVER PLATED OFHC FLAT COPPER WIRE BRAID.  
BARRIER LAYER... POLYIMIDE/ALUMINUM TAPE.  
OUTER BRAID... 304 STAINLESS STEEL WIRE BRAID.  
OUTER JACKET... EXTRUDED FEP.
  - CONNECTORS MEET MIL-PRF-39012.  
BODY, NUT AND BACK NUT,  
STEEL, CORROSION RESISTANT PER ASTM A-582,  
UNS No. S30300, COND. A, NON MAGNETIC,  
PASSIVATED PER SAE-AMS-2700 OR ASTM A-967.  
NO DICHROMATE SOLUTIONS USED.  
BACK NUT IS NICKEL ALLOY PLATED.  
CENTER CONDUCTOR,  
BERYLLIUM COPPER ALLOY PER ASTM B-196,  
UNS No. C17300, TEMPER TD04(H).  
GOLD PLATED .000050 IN MIN. THK. (1.27 MICRO METERS)  
PER ASTM B-488, CODE C, TYPE II, OVER  
NICKEL PLATE, .000050 IN MIN. THK. PER SAE-AMS-QQ-N-290,  
OR ASTM B-689 TYPE 1.  
DIELECTRIC,  
POLYTETRAFLUOROETHYLENE (PTFE) PER ASTM D-1710  
OR ASTM D-4894, TYPE I, GRADE 1.  
EPOXY,  
TWO-COMPONENT HIGH TEMPERATURE EPOXY SYSTEM.
  - ELECTRICAL CHARACTERISTICS: (SEE MAXIMUM VALUES IN CHART).
  - TECHNICAL DATA:  
OPERATING TEMPERATURE RANGE:  
-55°C TO +125°C.  
PULL STRENGTH TO 17 LBS.



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	02/05/04
ELEC. R.F.	02/10/04
MECH. A.W.	02/10/04
Q.C. A.G.	02/10/04



**ASTROLAB**® INC.  
WARREN, NJ  
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TITLE <b>CABLE ASSEMBLY, 1.85mm COMPATIBLE PLUG</b>		SCALE 1:1	CODE IDENT. 16301	DWG NO. microbend V-XX	REV F
THDS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STDS. FOR FEDERAL SERVICES 1950 SUPL. TO HANDBOOK H 28.					

F	ECN No. 11499	10/24/07	EB	
REV.	DESCRIPTION	DATE	BY	APPROVED