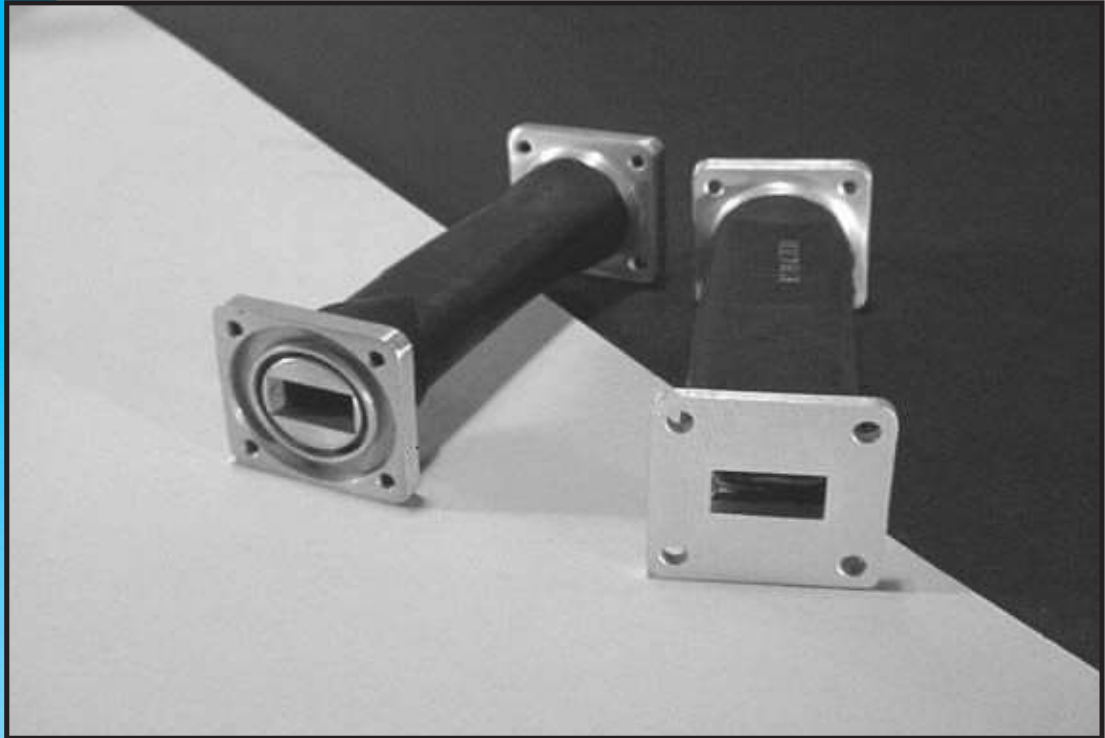


FLEXIBLE SEAMLESS WAVEGUIDE



PENN ENGINEERING offers a wide variety of Flexible Seamless Waveguide Sections in many different sizes and configurations. These sections flex without impairing VSWR or attenuation. Standard Flex sections are silver plated brass with brass flanges with or without neoprene/vinyl jacket. Seamless flex will hold pressure with or without jacket.

Aluminum flanges are also available.

We will quote you on custom Flex sections built to your specifications.

PENN ENGINEERING COMPONENTS

12750 RAYMER ST.
N. HOLLYWOOD
CALIFORNIA 91605

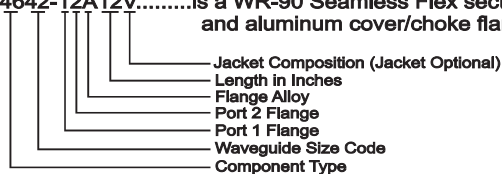
(818) 503-1511

FAX (818) 764-0195

www.pennengineering.com

Ordering Information - To order use the following example:

Model 4642-12A12V.....is a WR-90 Seamless Flex section 12" long w/ Vinyl Jacket and aluminum cover/choke flanges



ALLOY: A=ALUMINUM B=BRASS

FLANGE: 1=COVER 2=CHOKE 3=CMR 4=CPRG 5=CPRF

JACKET: N=NEOPRENE V=VINYL

(See last page for complete list of flanges and materials)

FLEXIBLE SEAMLESS WAVEGUIDE SPECIFICATIONS

MODEL NO.	EIA WR SIZE	FREQ. RANGE GHz	*VSWR	**ATTEN.	Typical Mechanical Specifications				CW Power In Watts	Peak Power In Kilowatts
					Bend Radii to Centerline					
					With Jacket (in Inches) E-Plane	H-Plane	Without Jacket (in Inches) E-Plane	H-Plane		
4628	22	33.0-50.0	1.35	1.000	.75	1.13	.44	.94	75	12
4630	28	26.5-40.0	1.30	0.500	.75	1.13	.44	.94	150	20
4632	34	22.0-33.0	1.30	0.350	.88	1.25	.57	.88	200	30
4634	42	18.0-26.5	1.20	0.320	.88	1.25	.57	.88	300	39
4636	51	15.0-22.0	1.20	0.320	.90	1.40	.63	1.0	500	70
4638	62	12.4-18.0	1.12	0.150	1.00	1.88	.69	1.25	1,000	90
4640	75	10.0-15.0	1.10	0.120	1.13	2.25	.63	1.25	1,500	140
4642	90	8.20-12.4	1.10	0.100	1.75	2.50	1.25	1.50	3,000	180
4644	102	7.00-11.0	1.10	0.060	2.00	2.88	1.30	1.94	4,000	300
4646	112	7.05-10.0	1.10	0.060	2.25	3.25	1.40	1.82	4,000	315
4648	137	5.85-8.20	1.10	0.050	2.38	3.38	1.50	2.07	5,000	500
4650	159	4.90-7.05	1.10	0.040	4.00	6.00	1.60	2.25	6,000	1,100
4652	187	3.95-5.85	1.08	0.030	4.38	6.50	1.94	3.00	6,500	1,250
4654	229	3.30-4.90	1.07	0.020	6.50	8.00	2.13	3.25	8,000	1,550
4656	284	2.60-3.95	1.07	0.018	7.00	9.50	2.94	5.50	10,000	2,000
4658	340	2.20-3.30	1.07	0.010	10.0	16.0	4.25	6.00	16,000	3,700
4660	430	1.70-2.60	1.07	0.010	12.0	25.0	4.82	6.63	20,000	4,700
4664	650	1.12-1.70	1.06	0.010	20.0	40.0	14.0	28.0	20,000	10,700

*VSWR is per 2 Ft. Section

**Attenuation (Insertion Loss) is dB per Ft.