

Flexible Twistable Waveguide WFLX Series

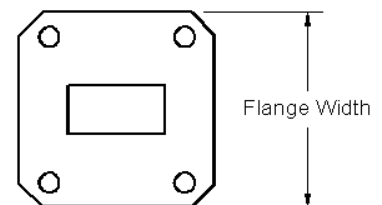
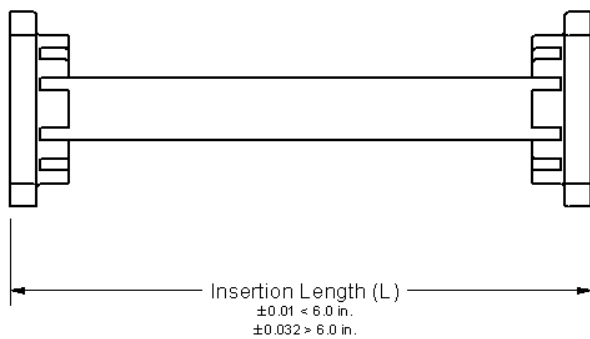


Flexible Twistable Waveguide

ALLEN AVIONICS offers a wide variety of Flexible – Twistable Waveguide (WFLX SERIES) in many different sizes from WR-650 to WR-42. These sections twist and flex in both E–Plane and H–Plane without any adverse effect on the Attenuation or the VSWR. Standard Flex – Twist Waveguide are brass material with brass flanges. These sections come with or without Neoprene/Vinyl Jacket.

MODEL #	WAVEGUIDE SIZE	FREQUENCY RANGE (GHz)	Typical VSWR (/2 ft. section)	Typical ATTEN. (dB/ft. section)
WFLX / WR650 / ...	WR-650	1.12 – 1.70	1.06	0.005
WFLX / WR430 / ...	WR-430	1.70 – 2.60	1.07	0.010
WFLX / WR284 / ...	WR-284	2.60 – 3.95	1.09	0.018
WFLX / WR229 / ...	WR-229	3.30 – 4.90	1.07	0.023
WFLX / WR187 / ...	WR-187	3.95 – 5.85	1.09	0.050
WFLX / WR159 / ...	WR-159	4.90 – 7.05	1.09	0.060
WFLX / WR137 / ...	WR-137	5.85 – 8.20	1.09	0.070
WFLX / WR112 / ...	WR-112	7.05 – 10.0	1.10	0.080
WFLX / WR102 / ...	WR-102	7.00 – 11.0	1.10	0.090
WFLX / WR90 / ...	WR-90	8.20 – 12.4	1.10	0.100
WFLX / WR75 / ...	WR-75	10.0 – 15.0	1.12	0.150
WFLX / WR62 / ...	WR-62	12.4 – 18.0	1.12	0.200
WFLX / WR51 / ...	WR-51	15.0 – 22.0	1.21	0.210
WFLX / WR42 / ...	WR-42	18.0 – 26.5	1.20	0.350

Operating Temperature for the Flex–Twist Waveguide Sections: – 55°C to 130°C



MODEL DESIGNATION

Code	Description
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1	Series (WFLX)
2	Waveguide Size
3	Insertion Length, L (in.)
4	Flange Code (Input/Output) (see chart)
5	Jacket Neoprene – N Vinyle – V

SAMPLE

<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
WFLX/	WR75/	12.0/	CF/FS/	N

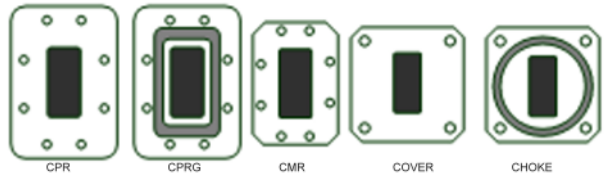
**COMPLETE PN=
WFLX/WR75/12.0/CF/FS/N**

Contact Factory With Your Specific Needs For:

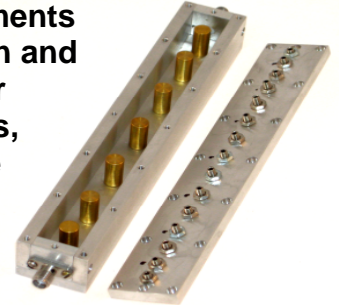
- Electrical Performance
- Mechanical Configuration
- Insertion Loss

FLANGE CODE CHART

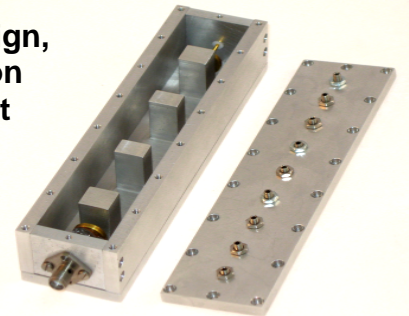
Flange Style	Connector Code
CPR Flange	CPR
CPRG Flange	CPRG
CMR Flange	CMR
Cover Flange	CF
Choke Flange	CH



ALLEN AVIONICS INC manufactures many other types of microwave Filters. Our engineers will help you pick the right filter to meet all the requirements you have for performance, size and cost. Our advanced simulation and modeling software will design and do optimization of Circular Post Coupled filters, Metal-Insert Filters, Iris Coupled Filters, Comblaine and Interdigital Filters. All of our Filters can be custom designed for your application and we offer fast prototypes. No need to wait five or six weeks to test your idea or check your system.



**Allen Avionics Inc. started in 1960 And has 49 years experience in design, Production, quality and they use it on every product they make. Check out the Allen Avionics web site for all their products.
www.allenavionics.com**



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