



- Flexible & Twistable Waveguide
- Protected from Environment
- Operating Temp. Range from -20°C to +100°C
- Wide Choice of Custom Flanges

Our flexible waveguides are manufactured from helically wound copper alloy strip material which allows the waveguides to twist and bend in the E and H planes simultaneously.

The flexible waveguide core is protected from the environment by a molded neoprene rubber jacket providing durability and full axis of motion over the operating temperature range of -20 to +100 degrees Celsius.

Flexible and Twistable Waveguide

Model: GFT (Flexible and Twistable Waveguide) & GFN (Flexible Non-Twistable Waveguide)

Electrical Specifications ▼

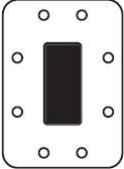

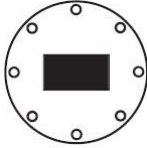
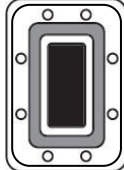

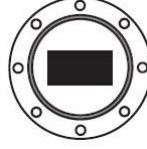
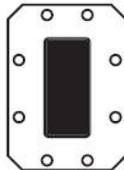

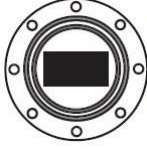
Waveguide Size		Frequency	Insertion loss	VSWR		Power Rating	
IEC	EIA	Operating	Maximum	Maximum	Maximum	GF75T	GF75N
70R	137WR	5.85-8.20 GHz	0.06dB/ft (0.20m)	1.07 <36in.(1 m)	1.11 >36in.(1 m)	1700W	2000W
84R	112WR	7.05-10.00 GHz	0.07dB/ft (0.23m)	1.09 <36in.(1 m)	1.12 >36in.(1 m)	1200W	1500W
100R	90WR	8.20-12.40 GHz	0.09dB/ft (0.30m)	1.09 <36in.(1 m)	1.12 >36in.(1 m)	700W	1000W
120R	75WR	10.00-15.00 GHz	0.13dB/ft (0.43m)	1.10 <36in.(1 m)	1.12 >36in.(1 m)	500W	750W
140R	62WR	12.40-18.00 GHz	0.16dB/ft (0.52m)	1.12 <36in.(1 m)	1.15 >36in.(1 m)	220W	400W
220R	42WR	18.00-26.50 GHz	0.38dB/ft (1.25m)	1.20 <36in.(1 m)	1.25 >36in.(1 m)	100W	150W

Mechanical Specifications ▼

Waveguide Size		Bending Radius Rating Minimum for GFT or GFN				Twisting Rating Maximum for GFT		Length Tolerance	Internal Pressure Rating Max
IEC	EIA	Static		Repeated		Static	Repeated	Static	Static
		E-Plane	H--Plane	E-Plane	H--Plane	+/-Deg/ft (m)	+/-Deg/ft (m)	+/- in/ft (%)	PSIG (kPa)
R70	WR137	4.0"/102mm	8.0"/203mm	16"/406mm	32"/813mm	64 (210)	18 (52)	0.13 (1%)	30 (207)
R84	WR112	3.0"/76mm	6.0"/152mm	12"/305mm	24"/610mm	79 (259)	20 (66)	0.13 (1%)	35 (242)
R100	WR90	2.5"/64mm	5.0"/127mm	10"/254mm	20"/508mm	96 (315)	23 (75)	0.13 (1%)	45 (311)
R120	WR75	2.1"/51mm	4.2"/102mm	8.5"/216mm	17"/432mm	112 (364)	28 (92)	0.13 (1%)	45 (311)
R140	WR62	1.8"/46mm	3.6"/92mm	7.0"/178mm	14"/368mm	136 (446)	34 (112)	0.13 (1%)	45 (311)
R220	WR42	1.2"/30mm	2.3"/60mm	4.7"/120mm	11"/240mm	160 (525)	44 (144)	0.13 (1%)	45 (311)

Waveguide Flanges ▼

Brass and aluminum waveguide flanges are manufactured in-house and maintained in inventory reducing product lead time so we can respond quickly to market demands. Both North American (EIA) and European (IEC) standard waveguide flanges are available in corrosion protected base metal or plated finishes.

Rectangular Flanges	Square Flanges WR42 to WR112 / R70 to 220	Round Flanges WR137 / R70
 <p>FLAT Contact CPR -02 UDR -22</p>	 <p>FLAT Contact COVER -03 UBR -23</p>	 <p>FLAT Contact COVER -06 UAR -26</p>
 <p>GROOVED Contact CPRG -01 PDR -21</p>	 <p>GROOVED Contact COVER -04 PBR -24</p>	 <p>GROOVED Contact COVER -07 PAR -27</p>
 <p>MINIATURE Contact CMR -09,10,11 UER -30</p>	 <p>CHOKE -05 CBR -25</p>	 <p>CHOKE -08 CAR -28</p>

* Number of holes for some flange styles depends on waveguide size

Waveguide Accessories ▼

Hardware, fixing and clamping kit accessories are available for use with our flexible waveguide products.

Part Number Guide ▼

GFT		137	36	IN	N	03	04	R
Flex Type			Flex Length					Flange Finish
Flex Twist	GFT		Unit Length	IN				-S Silver Plated
Flex Non Twist	GFN		inch	IN				-N Nickel Plated
			mm	MM				-T Tin Plated
			Jacket Type					-G Gold Plated
	Waveguide Size		Neoprene		-N			-R Iridite
	R70 / WR137	137	Silicone		-S			
	R84 / WR112	112				Flange Type		Flange Type
	R100 / WR90	090				CPRG - Grooved Contact	-01	-21 PDR - Rectangular Grooved
	R120 / WR75	075				CPRF - Contact Flat	-02	-22 UDR - Rectangular Flat
	R140 / WR62	062				Cover Flat - Square	-03	-23 UBR - Square Flat
	R220 / WR42	042				Cover Grooved - Square	-04	-24 PBR - Square Grooved
						Choke - Square	-05	-25 CBR - Square Choke
						Cover F WR137 - Round	-06	-26 UAR70 - Round Plain
						Cover G WR137 - Round	-07	-27 PAR70 - Round Grooved
						Choke WR137 - Round	-08	-28 CAR70 - Round Choke
						CMR - Standard Holes	-09	
						CMR - Clear Holes	-10	-30 UER - Clear Holes
						CMR - Tapped Holes	-11	-99 Special - Customer Specified

Standard
Neoprene Rubber Jacket
Brass Flanges

Special Request
Silicone Rubber Jacket -S
Aluminium Flanges -A