

TWISTABLE RECTANGULAR FLEXIBLE WAVEGUIDE

Application:

Microwave and satellite communication transmission.

Feature :

The flexible waveguide with stable transmission performance can be bent and twisted and have characteristic of Low VSWR, low attenuation. Within the allowable range, after bending, torsion the performance is same. Operating temperature range: $-40^{\circ}\text{C} \sim +75^{\circ}\text{C}$, storage Temperature: $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$

Flange:

IEC/EIA standard

Jacket:

WG jacket is made of environmentally friendly materials including

Technical Specification:

silicone rubber, polyester, vulcanized rubber. The standard length (300, 600, 900, 1000 mm) waveguide using the first two molded jacket, the special length waveguide using vulcanized rubber hand brush jacket.



TYPE	BRA-70 (WR137)	BRA-84 (WR112)	BRA-100 (WR90)	BRA-120 (WR75)	BRA-140 (WR62)	BRA-220 (WR42)
EIA standard	WR137	WR112	WR90	WR75	WR62	WR42
Outer sheath	S-7 Vulcanized rubber Silicone rubber	S-7 Vulcanized rubber Silicone rubber	S-7 Vulcanized rubber Silicone rubber	S-7 Vulcanized rubber Silicone rubber	S-7 Vulcanized rubber Silicone rubber	S-7 Vulcanized rubber Silicone rubber
Inner size (mm) (mm)	34.85×15.80	28.50×12.60	22.86×10.16	19.85×9.525	15.80×7.90	10.67×4.32
length range (mm)	100 - 3000	100 - 3000	100 - 3000	100 - 3000	100 - 3000	100 - 3000
Max torsion angle(deg/m)	108	210	240	340	350	400
Min bend radius (mm) E	100	76	66	64	54	41
Min bend radius (mm) H	200	152	120	120	105	78
Freq(GHz)	5.85 – 8.20	7.05 – 10.00	8.20 – 12.40	10.00 – 15.00	12.40 – 18.00	17.70 – 26.50
Attenuation (dB/m)	0.35	0.45	0.70	0.90	1.00	2.5
Average power(Kw)	2.0	1.20	0.50	0.75	0.40	0.1
VSWR	1.10	1.10	1.10	1.15	1.15	1.25
Operating temperature range	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C
Storage Temperature	-55°C ~+85°C	-55°C ~+85°C	-55°C ~+85°C	-55°C ~+85°C	-55°C ~+85°C	-55°C ~+85°C
Flange	FDP70 FDM70	FDP84 FDM84 FBP84 FBM84	FDP100 FDM100 FBP100 FBM100	FBP120 FBM120 FDP120 FDM120	FBP140 FBM140 FDP220 FDM140	FBP220 FBM220