

Rectangular Waveguide Product Line

UBS stocks rectangular waveguide raw materials in sizes ranging from WR-28 to WR-650. UBS is also able to manufacture products from other industry standard waveguide sizes upon request. In addition to the standard line of waveguide products offered in this catalogue, UBS also is a supplier of OEM products to the military and commercial communications industry. UBS has the experienced staff and the resources to develop and manufacture waveguide components specific to your OEM application.

Rectangular Waveguide Section Numbering System

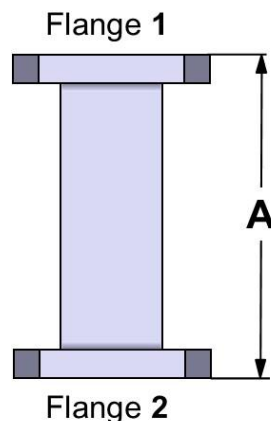
The UBS rectangular waveguide section numbering system, allows the end user to specify the exact waveguide section(s) required.

Example 1

- You require a WR-42 straight section(S), 12" long.
- The waveguide material selected is bronze(B).
- Flange 1 is to be grooved(G) to accept a gasket
- Flange 2 at the other end is to be flat cover(C).
- The flange mounting holes are to be threaded(T2).

Part number - 111 - WR42 - B - S - 12.00 - X - X - G - T2 - C - T2

Series No.	111
WG Size	WR42
WG Material	B
Section Shape	S
Dimension A	12.00
Dimension B	X
Dimension C	X
Flange 1	G
Flange 1 Mounting	T2
Flange 2	C
Flange 2 Mounting	T2



NOTE: Dimensions "B" and "C" do not apply and are left as "X" in the part number.

Materials

Straight and complex sections can be specified from a choice of high conductivity copper, bronze or aluminum. Flexible waveguide is manufactured from a convoluted beryllium-copper alloy material that is fully pressurizable and is flexible in both the E and H planes. Longitudinal twists are not possible with this type of flexible waveguide. If a rigid longitudinal twist section is required, a suitable one can be specified from the UBS 112 series. For longitudinal twist use the 118 series of flexible twistable waveguides.

Section Dimensions

The maximum length of rigid waveguide is 6 ft, flexible waveguide is 2 ft, and flexible twistable waveguide is 4 ft.

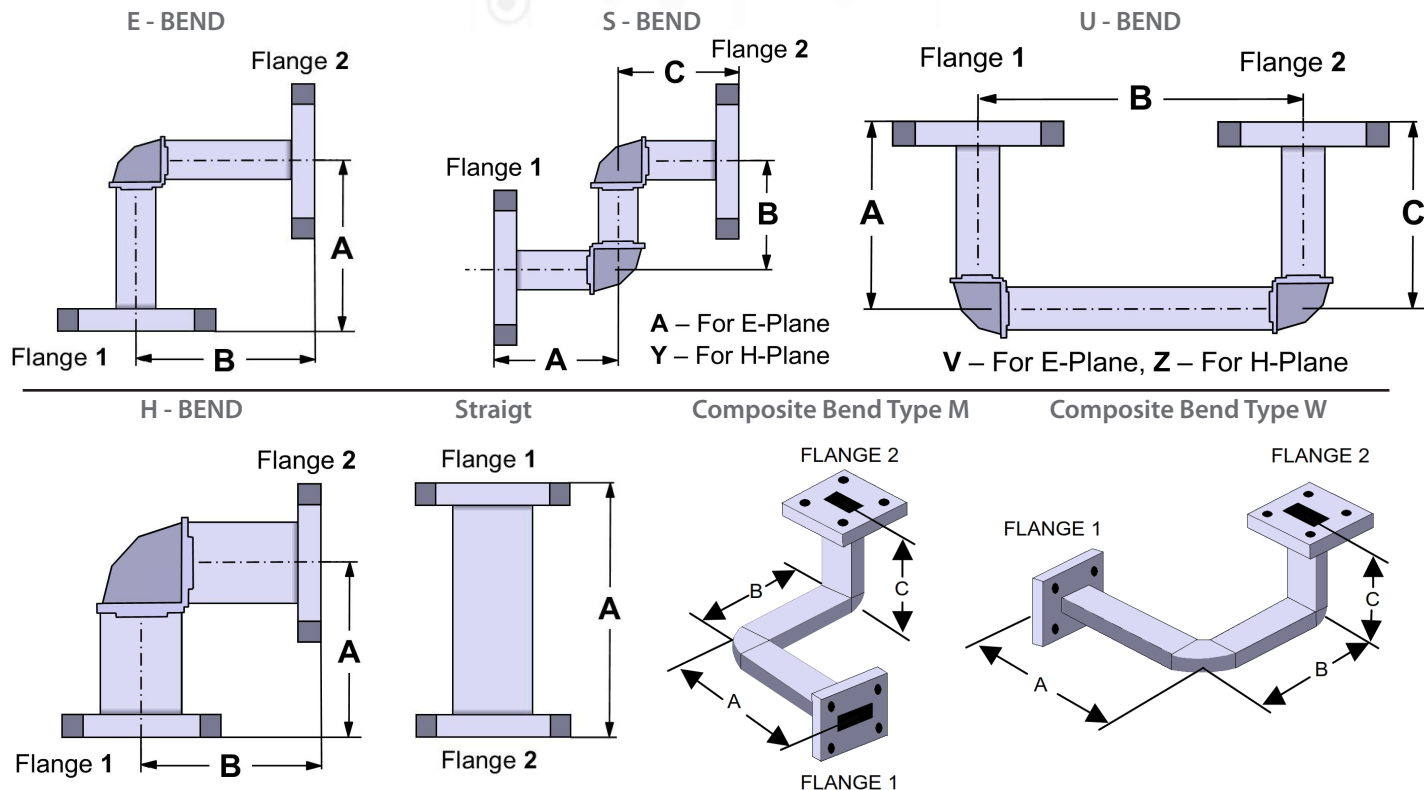
Tips and Suggestions

Large sections manufactured from copper should be avoided. Instead use bronze for additional strength. It is strongly recommended that a single large complex section be constructed by specifying several smaller and less complicated sections for assembly by the user on site

You are advised to contact UBS for assistance in specifying large complex sections to best meet your requirements.

Rectangular Waveguide

Series No: 111



Ordering Data

Part number - 111 - X - X - X - X - X - X - X - X - X - X

Series No. _____

WG Size _____

WG Material _____

Section Shape _____

Dimension A _____

Dimension B _____

Dimension C _____

Flange 1 _____

Flange 1 Mounting _____

Flange 2 _____

Flange 2 Mounting _____

Waveguide Section

E	E-BEND
H	H-BEND
S	Straight Solid
F	Straight Flex
A	S-BEND E-PLANE
Y	S-BEND H-PLANE
V	U-BEND E-PLANE
Z	U-BEND H-PLANE
W	Composite Bend Type W
M	Composite Bend Type M

Flange Configuration

Flange Type	C - Cover G - Groove CHOKE CMR, CPR(F, G)
Flange Mounting Holes	T1 - Through Holes T2 - Threaded A - Alternating

Material

C	Copper
A	Aluminum
B	Bronze

Electrical Specification

VSWR	< 1.06:1
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STANDARD FINISH: is electroless corrosion protection for the metal surface. Non standard configurations and finishes (Silver, Nickel, Cadmium plating) are available upon request. Waveguide sizes up to WR-650 available. Contact our sales department with your requirements.

(specifications are subject to change without notice)

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