Waveguide straights

Waveguide straights part number generation for quote and ordering purposes on page 2

**WG 18 straight**

**WG 15**
UBR 84 to CPR112G flange adaptor

A1 Microwave Waveguide's Division manufacture

Straight waveguide in aluminium, copper / brass or flexible waveguide

Flange adaptors using short waveguide straights

Integration with bends, twists, couplers can be manufactured to your precise requirements

**WG 10 straight**

**WG 17 flexible**

**WG 18 lightweight waveguide assembly**

A1 Microwave, Waveguide Division
Precision waveguide components. Build to print manufacturing.
## Waveguide straights

Waveguide straights part number generation for quote and ordering purposes

<table>
<thead>
<tr>
<th>WR code</th>
<th>Waveguide definition</th>
<th>Typical operating range (GHz)</th>
<th>Internal dimensions (mm)</th>
<th>Rectangular Plain 6/10 Hole</th>
<th>O-ring grooved 6/10 Hole</th>
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### Material code, standard is Aluminium
- A for Aluminium
- B for Brass
- C for Copper

### Paint finish code, standard is Black
- B for Matt black epoxy 80/161 (DTD 5555A) Scheme III
- W for Gloss white two pack polyurethane
- G for NATO Green Infra Red Reflective Matt
- U for passivated unpainted

### Part number is made up from the following information
- ST - “WR code” - “Flange code” / “Flange code” - “Length in mm” - “Material code” - “Paint finish code”

**Example:**

ST-137-UD/PD-350-A-B

for a Straight in WR137 with UDR 70 + PDR 70 flanges 350 mm long in Aluminium and painted black

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A1 Microwave, Waveguide Division
Precision waveguide components. Build to print manufacturing.
A1 Microwave, is internationally recognised for innovative design and manufacturing procedures. The Company acquired JMD Technologies in 2010 which had an established credibility in Precision Waveguide Component and Sub-Assembly production - WG 6 (WR 650) to WG 22 (WR 28), and has been manufacturing since 1990.

We supply specialist, non-standard items to the Defence, Aerospace, Marine, Satellite Communications, Commercial and High Power segments of the Markets.

Our Expertise covers 'Build to Print' from customers drawings through Design, Manufacture & Test up to 50 GHz.

Our Designs are appropriate to the clients individual specification.

Production is in a tightly controlled environment, utilising the latest CNC Milling and Turning facilities, Bending, Brazing and Assembly.

A1 Microwave have invested in our Quality Control Systems, equipment and procedures so as to meet the most rigorous of customer requirements, as part of this process we operate an ISO 9001:2000 Certified QA system.

We are always pleased to advise on and discuss your requirements.

A1 Microwave Ltd is a forward looking company with an active development programme and proven track record in product excellence. We are committed to producing a specific response to your requirements and look forward to hearing from you.

Our expertise includes brazing of Aluminium and Copper based Alloys, which allow complex components and sub-assemblies to be produced to exceptionally high standards.

Our latest in CNC Machines, of which the majority have four axis capability, A1 Microwave’s Waveguide Division possesses a sophisticated and flexible facility, which is able to address the most complex, high tolerance components, manufactured to the finest tolerances.

Our Brazing department has been established to meet BS1723 and MIL-B-7883 standards, thereby allowing the most demanding requirements to be fulfilled.

Our CNC milling and Turning facilities are capable of producing complex, high tolerance components which when combined with our precision Waveguide Bending capability offer a versatile and sophisticated manufacturing facility.

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