



# UA221

## Passive Antenna Splitter

User guide for Shure UA221 series passive antenna splitters.  
Version: 1 (2019-J)

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# UA221

## Passive Antenna Splitter

### General Description

The Shure UA221 is a bi-directional splitter/combiner which can be used to route the RF signal from a single antenna to two inputs, or to connect two antennas to a single input. The UA221 Antenna Splitter/Combiner Kit includes:

- (2) Single-input, dual-output passive antenna splitters
- (4) Coaxial cables
- (2) BNC male-to-male adapters
- (2) BNC bulkhead adapters

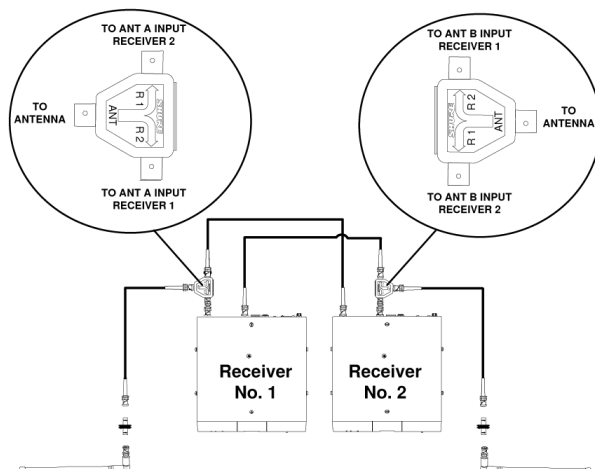
UA221 splitters are intended for use with Shure Wireless Systems. Use Shure ½-wave or directional antennas and Shure 50 Ω low-loss antenna cables when configuring the wireless system.

Model	Frequency Range	Pass DC/Block DC
<b>UA221</b>	10-1000 MHz	Block
<b>UA221-C-J</b>	10-1000 MHz	Pass
<b>UA221Z</b>	1000-2000 MHz	Block
<b>UA221Z-C-J</b>	1000-2000 MHz	Pass

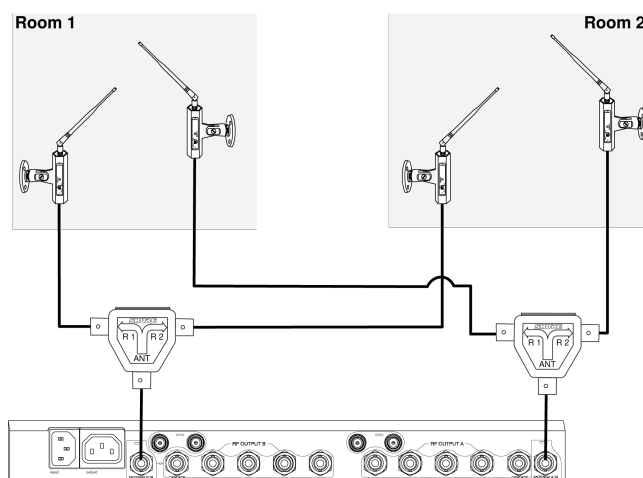
### Installing the UA221 Splitters

Use two UA221 Splitters and the supplied BNC male-to-male adapters and coaxial cables to split the RF signal from a single pair of antennas to the antenna inputs of two receivers.

**Note:** Antennas must be compatible with the operating frequency range of the receiver.



*In this configuration, use UA221 or UA221Z, or ensure the receiver's DC bias is disabled.*



*When using powered antennas, use UA221-C-J or UA221Z-C-J.*

## Specifications

### Frequency Range

<b>UA221/UA221-C-J</b>	10 MHz-1000 MHz
<b>UA221Z/UA221Z-C-J</b>	1000 MHz-2000 MHz

### Voltage Standing Wave Ratio (VSWR)

2:0

### Impedance

50  $\Omega$

**Isolation**

20 dB

**Insertion Loss**

2 dB (3 dB splitter loss not included)

**Dimensions**

64 x 48 x 22 mm (H x W x D)

**Weight**

45.3 g (1.6oz.)

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## Furnished Accessories

### Furnished Parts

<b>0.5 m (2 ft.) Coaxial Antenna Cable (4)</b>	UA802
<b>BNC Bulkhead Adapters, lockwasher, nut (2)</b>	95A8647
<b>BNC Male-to-Male Adapter (2)</b>	95A8738