

# W8AMZ

## Amateur Radio Products

www.w8amz.com

231-855-0281

# G5RV Mutli-Band Antenna

### Common Specifications:

2 KW Full Legal Limit

#14 stranded copper wire per NEC code

All black wire for easy concealment

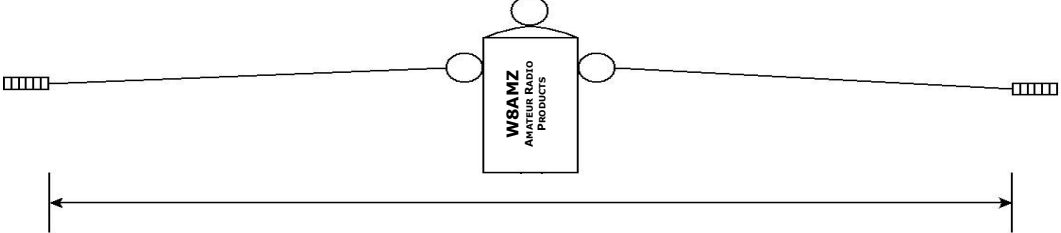
High quality SO-239 connector for direct coax connection

A **MINIMUM** of at least 70' of coaxial feedline is **REQUIRED**

Antenna is preassembled and ready to hang

Suitable for horizontal - flat top or inverted-V configuration

INSTALLATION  
CONSIDERATIONS



- 10M—40M **LITE-G5RV ANTENNA** Length: 51'
- 10M—80M **FULLSIZE-G5RV ANTENNA** Length: 102'
- 10M—160M **DOUBLE-G5RV ANTENNA** Length: 204'

Recommended installation height for best results.

10M—40M	<b>LITE-G5RV</b>	- At Least 16'
10M—80M	<b>FULLSIZE-G5RV</b>	- At Least 32'
10M—160M	<b>Double-G5RV</b>	- At Least 64'

Recommended dimensions above are approximate for the flat-top (horizontal) G5RV.

Even though the G5RV is a "compromise" antenna, it performs well on most HF ham bands and generally requires an antenna tuner. It is also reported to operate quite well on 6M and 2M.

G5RV antennas should be put up as a flat-top configuration, however they can be installed as an inverted-V as long as the angle of both sides is not less than 60 degrees each. It is recommended that you support and suspend the center of the G5RV as high as possible. The matching section (Window-Line) should descend at a right angle to the antenna.

**W8AMZ - G5RV Antennas** are designed to meet NEC code and are made of high quality components, including black insulated 14-gauge stranded copper wire. National Electrical Code requires a minimum of 14 gauge wiring for permanent residential installation.

**W8AMZ - G5RV Antennas** are very rugged in design, utilizing 450Ω balanced Window-Line constructed from copper-clad steel wire, to withstand high winds and rough weather. The center insulator and SO-239 connector-ends are epoxy filled for truly waterproof construction, resulting in a very strong connection to the Window-Line for enhanced durability and years of trouble free service. The included light weight, high quality, PVC dog-bone insulators are 100% UV-stable unlike common Nylon insulators.

**W8AMZ - G5RV Antennas** are designed to handle the full 2KW legal limit.

**W8AMZ - G5RV Antennas** are generally easy to tune using the antenna tuner built-in most current model radios or an inexpensive external antenna tuner.

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The W8AMZ G5RV Antenna is proudly made in the USA

Even more so, all except one component of this antenna are US manufactured

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### INSTALLATION & USE

1. The G5RV Antenna requires no additional soldering or assembly. The antenna is completely assembled, and ready to hang right out of the package.
2. Due to the multiband nature of a G5RV, an antenna tuner is recommended for proper SWR tuning.
3. Ideally the center insulator should be supported and hung as high as possible, optimally a minimum of 16' for the 40m, 31' for the 80M, and 62' for the 160M version, above the ground.
4. Attach rope to each of the end insulators of the antenna and suspend from appropriate tree or other structure. Allow a slight amount of sag if attaching to trees to allow for wind swaying.
5. Both radiating elements should be hung horizontally under ideal conditions, however they can be installed as a semi-inverted-V as long as the total angle between both elements stays greater than 170°
6. The matching section (window-line) should descend at a right angle to the radiating elements.
7. A **MINIMUM** of 70 feet of 50Ω coaxial feedline is **REQUIRED** to be used between the vertical balanced window line and your HF radio / antenna tuner. This antenna design does not use expensive baluns for matching. The coaxial feedline works in conjunction with the balanced window line to form the matching network. This long standing, highly regarded antenna design is not only less expensive, but also more forgiving in less-than-ideal installation environments than Windoms or other off-center fed dipoles.
8. Adequately weatherproof the coaxial connection with Self Sealing Coax Heat Shrink Tubing w/ internal sealer, available from *W8AMZ Amateur Radio Products* or a coax sealing type of product to prevent or minimize line contamination.

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## CAUTION

**ERECT ALL ANTENNA PARTS OUT OF REACH OF PEOPLE AND ANIMALS**  
**POWER LINES ARE DEADLY! STAY AWAY FROM POWER LINES!**  
**STAY AWAY FROM ANTENNA WHEN TRANSMITTING**  
**MARK ALL ANTENNES AND FEEDLINES AS DANGEROUS**

<p><b>CAUTION – High Voltage will be present on antenna when transmitting so locate accordingly.</b></p>
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