



Model

# GRMWFC477

Ground Independent

compact UHF CB whip, 65 cm

UHF CB 477 MHz

2.1 dBi Gain

- Stainless steel whip with delrin, copper and brass mount ferrule.
- Mounts to any bracket with minimum 10 mm diameter hole.
- 4.5 metres RG58 stranded cable.
- FME female connector fitted.
- FME male to UHF male adaptor supplied.
- 50 watts maximum input power.

## INSTALLATION GUIDE

[www.zcg.com.au](http://www.zcg.com.au)

### ANTENNA DESCRIPTION

GRMWFC477 is a ground independent, half wave, end fed UHF mobile antenna. The stainless steel whip with phasing coil stands 65 cm tall and delivers 2.1 dBi gain.

The stainless steel, delrin, copper and brass construction provides an extremely robust and durable antenna capable of surviving the harshest of conditions and treatment.

4.5 metres of RG58 stranded cable bottom exits through the mounting base. The cable is fixed into the base, so the antenna top cannot be removed.

An FME female connector is fitted to the cable.

A FME Male to UHF Male adaptor is included in the kit to provide another common connector option.

A detailed specification sheet is available to download from [www.zcg.com.au](http://www.zcg.com.au)

### TUNING

The antenna has been factory tuned for the UHF CB Radio frequency 477 MHz.

VSWR has been optimised to better than 1.5:1 across the entire bandwidth.

### SELECTING THE MOUNTING POSITION

The lightweight design makes this antenna suitable for mounting in any position on a vehicle such as the bull bar or guard, the boot of a sedan or to a truck mirror.

Secure the antenna into any bracket with a minimum 10 mm diameter hole using the nut and washer on the threaded base.

The antenna can also be mounted in locations other than on a vehicle.

No metal ground plane is necessary for the antenna to operate effectively.

To achieve best performance from your antenna, these are the important principles you should consider when selecting the mounting point :

1. **Mount the antenna in as high a place as possible.**
2. **Mount the antenna as far away from other antennas and metallic objects as possible to avoid distortion of the 360° omnidirectional pattern and interference. At least 350 mm side clearance is desirable, preferably more.**
3. **Mount the antenna vertical, not at an angle.**

### INSTALLATION GUIDE

Remove the nut and washer from the threaded base, slip them down the cable and over the connector. Pass the cable through the hole of your mounting bracket.

Thread the washer and then the nut back up the cable and onto the threaded base.

From underneath, tighten the nut to secure the antenna firmly to the bracket.

**IMPORTANT :** Leave some slack in the cable at the point where the cable bottom exits the threaded base so as not to place unnecessary tension on the cable.

Route the RG58 cable carefully to your UHF radio. Ensure that the cable is not stretched excessively and there are no sharp kinks. Avoid high heat areas in the engine bay.

Use cable ties, but do not pull so tight as to crush the cable. A damaged feeder cable is a cause of high VSWR and reduced performance.

Insert the FME female connector into your UHF radio. If this does not suit, then an FME male to UHF male adaptor is supplied to provide another common connector option.

The maximum input power rating is 50 watts.

**Installation is now complete.**