DUALCOM PRO - AERIAL FITTING GUIDE

GUIDE

DualCom Pro - Aerial Fitting Guide

Guide

INTRODUCTION

> **WHEN COMPLETING AN UPGRADE OR REPLACEMENT ON AN EXISTING INSTALLATION, PLEASE ENSURE YOU ALWAYS USE THE AERIAL SUPPLIED WITH THE NEW DEVICE.**
> **THIS WILL ENSURE THE BEST MOBILE SIGNAL FOR YOUR INSTALLATION. SOME OLDER AERIALS DO NOT PROVIDE ACCESS TO 4G AND IF USED, COULD LEAD TO SIGNAL-RELATED ISSUES AND FAILURES.**

In order to ensure your DualCom Pro achieves the best possible signal available we encourage you to complete the following steps.

Step 1 - Use a Signal Analyser to determine the optimum location for the aerial/s and follow the advice from the Signal Analyser section below.

Step 2 - If you do not have a Signal Analyser, power up the DualCom Pro, connect the aerial/s, go through the commissioning process and check the signal strength before permanently fitting the aerial. We recommend a signal strength on the DualCom Pro of at least 3 (30%)
or above.

> **STEPS 3 & 4 ARE ONLY IF YOU ARE FITTING A DUAL RADIO AERIAL. PLEASE SKIP TO STEP 5 IF YOU ARE FITTING A SINGLE RADIO AERIAL.**

Step 3 - If you are using a dual radio product, make sure that both aerials are at least 2 metres apart.

Step 4 - If using a dual radio product, position the aerials in a vertical orientation.

Step 5 - Keep your devices aerial/s cables away from high voltage cables or any other aerial cables.
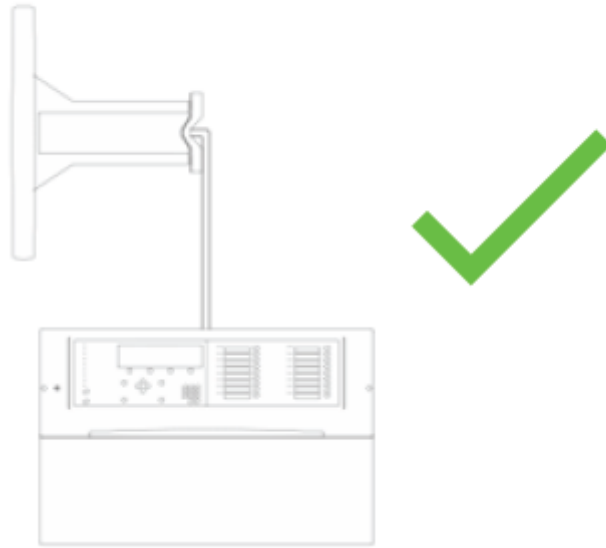
Step 6 - Keep your aerial/s in open space and 1 metre away from large metal objects or sources of interference (i.e. wiring, lighting, electrical installations, computers, control panels, fuse boards, routers, etc.)

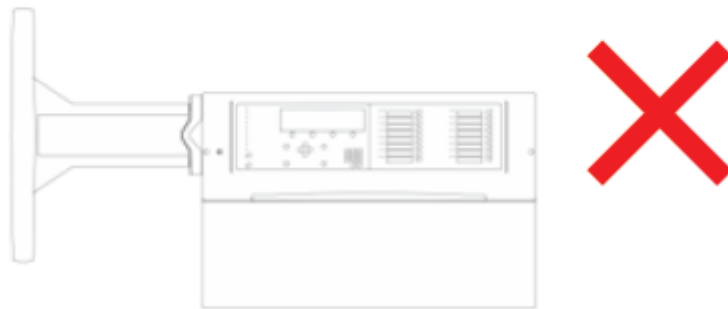**Step 7** - Do not tightly coil any excess aerial cable. Try and make large loops if possible.

See below for examples of good and bad single & dual aerial set-ups.

Figure 1 - Single Aerial Installs Good & Bad
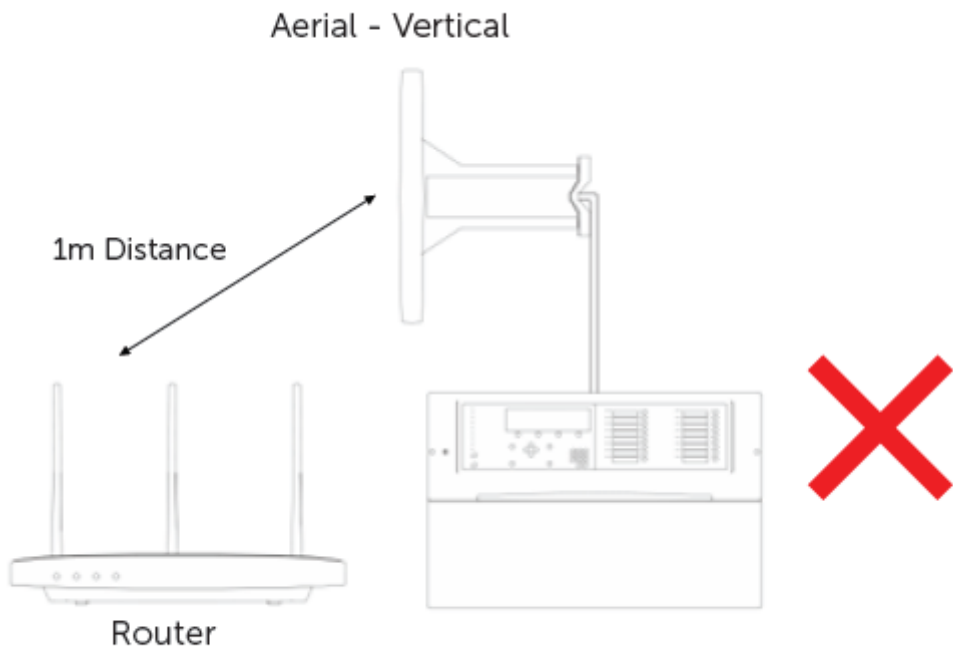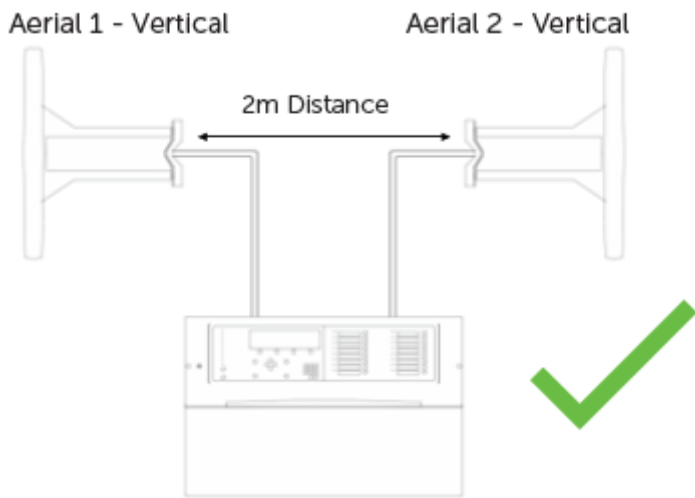
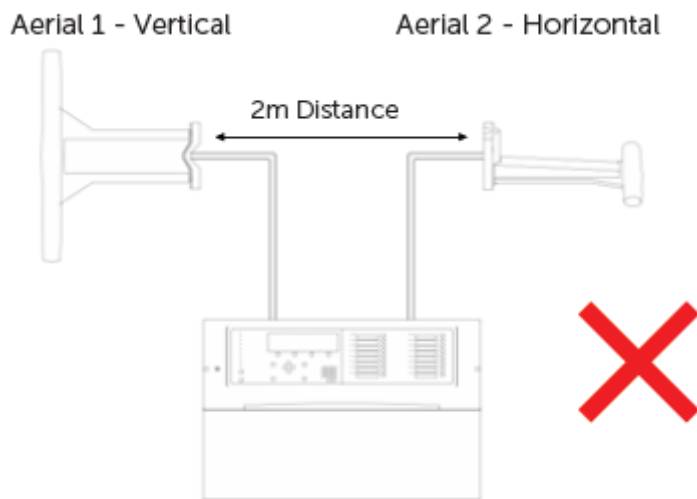Aerial - Vertical

Aerial - Vertical

Figure 2 - Dual Aerial Installs Good & Bad

Aerial 1 - Vertical   Aerial 2 - Horizontal

2m Distance

CSL SIGNAL ANALYSER - CS2389

Using the Signal Analyser, you must ensure that there are enough base stations (2 or more) available at the site and that they can supply sufficient signal strength (30% and above). This device will help determine the optimum location for the DualCom's aerials to be mounted.