



# Installation Instructions

EF-[X] Range  
SW3-662 - v1.2

## 1. Introduction

EF-[X] is a range of adhesive backed multiband dipole antennas covering a range of frequencies. The antennas are ground plane independent and suitable for mounting on non-metallic surfaces including plastic device enclosures and vehicle windshields. Two of these antennas, with suitable spacing, can be used together for MiMo and diversity applications.

## 2. Select a Suitable Mounting Location

Please Note that installation on heat reflective glass or screens with heater elements, may cause significant de-tuning. Select a suitable mounting location for the antenna on the desired surface. The orientation of the antenna should normally be vertical although the antenna can be mounted with the cable exiting either upwards or downwards without affecting performance. When selecting a mounting location, care should be taken to ensure that at least 50mm (2") of separation is maintained between the antenna and nearby metal objects such as fittings, vehicle pillars or panels. Where possible, the coaxial cable should route away from the antenna and not be run alongside. When mounting the antenna to a device enclosure consideration should be given to clearance from internal components under the mounting panel. Ensure that the selected location will enable the coaxial cable to be easily routed to the equipment.

## 3. Fitting the antenna

For effective adhesion, the antenna should be only be installed at temperatures above 16°C (60°F). Clean the mounting location with the supplied alcohol swab and leave to dry. Peel away the backing tape from the antenna and press firmly to the mounting surface to ensure even contact.

## 4. Routing and Terminating Coaxial Cable(s)

Route the coaxial cable to the equipment, taking care to avoid running adjacent to existing wiring or fouling any moving component. The cable(s) must not be routed in front of any airbag device.

It is recommended to carry out a VSWR which should measure as specified in the product data sheet.

## 5. Notices



### DO NOT

- install on metal surfaces, as this will adversely affect the antenna performance.
- operate the transmitter when someone is within 20cm (8") of the antenna.
- operate the equipment in an explosive atmosphere.
- chew parts or put them in mouth, keep away from unsupervised children.



Waste electrical products should not be disposed of with household waste. All electronic products with the WEEE logo must be collected and sent to approved operators for safe disposal or recycling. Please recycle where facilities exist. Many electrical/electronic equipment retailers facilitate "Distributor Take-Back scheme" for household WEEE. Check with your Local Authority or electronic retailers for designated collection facilities where WEEE can be disposed of for free.



### Directive 2011/65/EU (RoHS 2)

RoHS 2 compliance is declared per Directive 2011/65/EU and its subsequent amendments with exemption 6.c applied.

### REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals, EC 1907/2006)

This product contains Lead (CAS No. 7439-92-1) which is classified as an SVHC (Substance of Very High Concern) as being toxic to reproduction under Article 57c. of REACH. **Do not chew parts or put them in mouth, keep away from unsupervised children. Dispose of parts as WEEE waste do not send to landfill.**

Waiver: This document represents information compiled to the best of our present knowledge. It is not intended to as a representation or warranty of fitness of the products described for any particular purpose. This document details guidelines for general information purposes only. Always seek specialist advice when planning installations and ensure that antennas are always installed by a properly qualified installer in compliance with local laws and regulations.