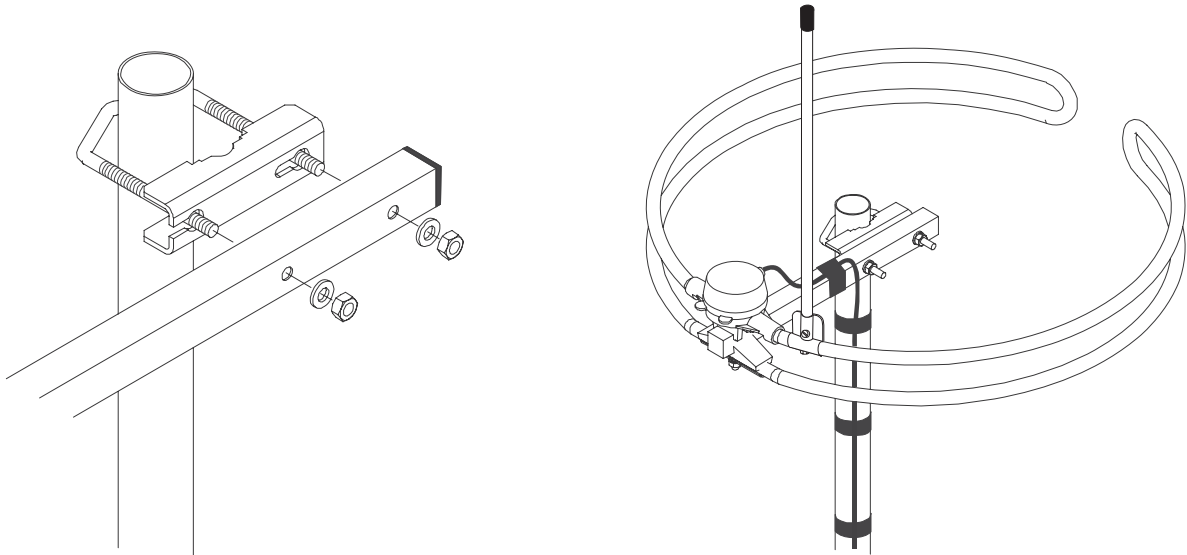


# DFMO Omnidirectional combined FM & DAB antenna/aerial



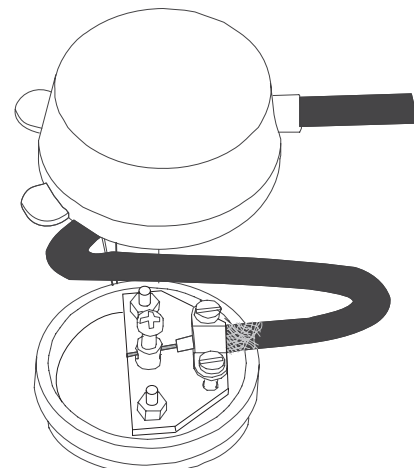
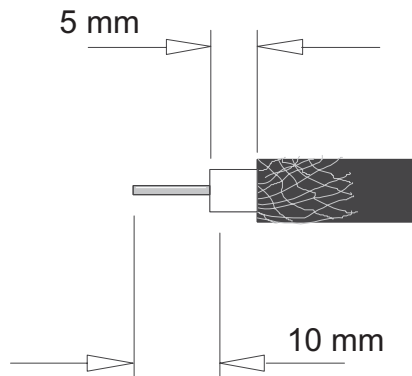
## Aerial assembly

Remove any tape/elastic bands around the boom, dipole and elements and assemble as shown below (with drawings). Ensure all wing nuts are securely tightened. Aerials are mounted as shown. Fix the aerial to a suitable mast using the clamp assembly as shown. Check that all fixings are tight.



## Fitting coaxial cable

Use good quality double screened coaxial cable (sometimes known as satellite cable). Remove cover from terminal box and push cable through aperture. Do not enlarge hole as it may allow water ingress. Trim off approximately 15mm of the outer cable sheath with a craft knife or similar to expose braid (and foil if double screened). Fold braid back over sheath (cut away foil flush to outer sheath) to expose plastic dielectric. Cut away dielectric to leave 10 mm of the centre copper wire exposed. Loosen clamp screws, slide cable under clamp and push centre wire through hole in terminal post. Braid should be positioned underneath clamp but not beyond it. Tighten braid clamp screws before tightening the centre conductor screw (do not over-tighten). Ease cap down cable and fit securely onto terminal box.



## Reception hints

**DAB aerial** - in areas classed as having DAB service this aerial will frequently give satisfactory results when mounted in a reasonably clear position in a roof space. In weak-signal (fringe) areas, outdoor mounting in a clear high position may be necessary. This aerial is omnidirectional and will not normally need any adjustment after fitting.

This aerial is suitable for direct connection to the antenna socket of any DAB portable radio or tuner. With the majority of portables the internal aerial must be disconnected first. The aerial may be used in conjunction with a signal distribution amplifier having a suitable input, or with a passive splitter, to feed multiple outlet points.

**FM aerial** – In areas classed as having FM service this aerial will frequently give satisfactory results when mounted outdoors in a clear high position (ideally 1 metre above your roof and any other aerials). It may work adequately in a loft space in a strong signal area but signals may be degraded by loft insulation, roof tiles etc. This aerial is notionally omnidirectional but it may be beneficial to vary direction slightly for best results after mounting.

This aerial is for direct connection (or via a suitable wall outlet plate) to the antenna socket of any FM tuner or portable radio that has an appropriate antenna input socket fitted. A diplexer such as the PROception proCOM21VU or proCOM31T may be used to combine the DAB and FM signals with TV signals from other aerials. In strong signal areas a passive splitter such as the PROception proMHS12P or proMHS14P may be used to feed multiple outlet points.

This aerial can also be used with a suitable signal distribution amplifier from the PROception range. In some areas FM signals can be extremely strong and it may be necessary to fit an attenuator on the VHF input of the amplifier to prevent signal overload, the effect of which is to degrade all signals passing through the amplifier.



***Safety: Working at height – carry out work outdoors at height only if you are competent in the use of ladders and related access equipment. Always work safely within your own limitations, ensuring that all equipment used is appropriate and is in good condition.***

Further advice may be downloaded from: [www.blake-uk.com/downloads](http://www.blake-uk.com/downloads) on:

• reception problems • distributing TV signals around the home • general recommendations.

**Digital UK Coverage checker** <http://www.digitaluk.co.uk/> (select detailed view box).

BBC Reception Advice 08700 100123, e-mail [reception@bbc.co.uk](mailto:reception@bbc.co.uk), web: [www.bbc.co.uk/reception](http://www.bbc.co.uk/reception)

 <https://www.facebook.com/blakeukltd>  <https://twitter.com/blakesaerials>

| Product ref. | Description                                 | No. of elements | Frequency (MHz)            | Forward gain        | Front to back ratio | Acceptance angle      | Approx. size  |
|--------------|---|-----------------|----------------------------|---------------------|---------------------|-----------------------|---------------|
| DFMO         | Omnidirectional combined FM and DAB antenna | 2               | FM: 86-108<br>DAB: 175-240 | FM: 0dB<br>DAB: 0dB | 0dB                 | FM: 360°<br>DAB: 360° | 0.55 diameter |

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