Labgear

20 Element Compact Log Periodic Aerial

LABLPCT   USER GUIDE

4G Lte800 READY

Congratulations on the purchase of your log periodic aerial. The aerial is ideal for the reception of all available signals in strong and medium areas.

● Built in filter removes any signals from Lte 800 4G mobile phone transmitters

● F type connection

● Superior rejection of impulse noise - the largest cause of picture freezing and signal dropout on Freeview reception

● Gain 7.5dBi

● Highly directional

● Very low wind resistance

● Supplied fully assembled with mast clamp, F connector and rubber weather boot

Installation Instructions

For optimum results install the aerial using double screened CAI approved digital coax cable and screened coax outlets. You will need to fit the coax cable with the F type connector supplied to connect to the downlead (not supplied) to the F socket on the aerial.

1. Prepare the Coax Cable: Firstly fit the rubber weather boot provided, to the aerial end of the cable. Strip the end of the cable as shown in Fig. 1. Once you have stripped the cable, twist the braid and pull it back on itself, make sure that no braid is touching the copper core, this will cause a short on the cable and you will not get any signal.

2. Fitting the F connector: Now, simply twist on the 'F' connector supplied and trim the central conductor.
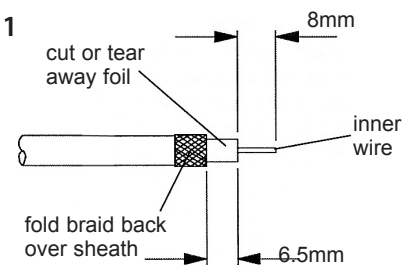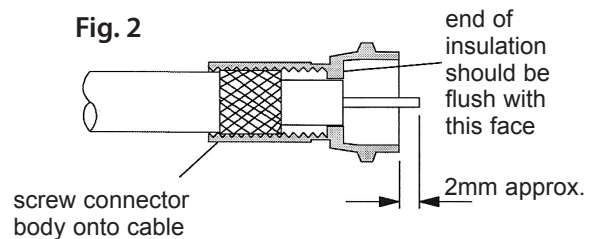
Fig. 1

8mm

cut or tear away foil

inner wire

fold braid back over sheath

6.5mm

Fig. 2

end of insulation should be flush with this face

screw connector body onto cable

2mm approx.

For best results the aerial should be mounted on an outdoor aerial mast and pointed in the direction of the nearest transmitter* making sure it is in a position where the transmitter signal will not be obstructed by nearby trees and buildings. If you are in any doubt about the direction in which the aerial should be pointing or the orientation of the aerial (horizontal for main transmitter, vertical for relay transmitter) check your neighbours' aerials.
The plate for the bracket has extra holes drilled at right angles to allow vertical mounting of the aerial.

The aerial comes fully assembled.
If mounting on an existing mast check that the mast is in good condition and firmly fixed.

3. Use the mast clamp supplied and tighten the wing nuts tightly until the aerial is held firmly in a horizontal position as shown in Fig. 3 and 4.
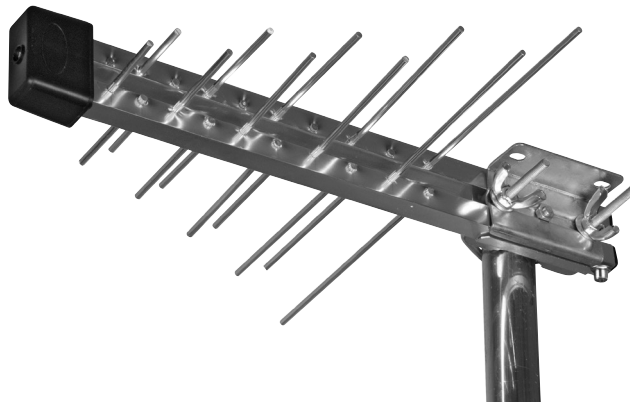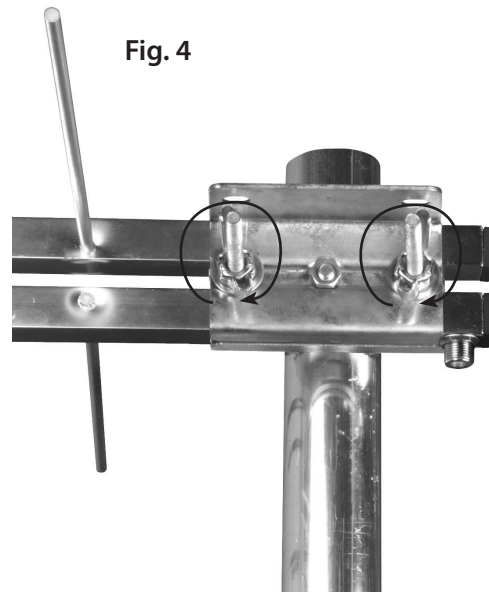
Fig. 4

Fig. 3

4. Connect the aerial downlead to the 'F' socket on the back of the aerial (be careful not to over tighten the F connector) see Fig. 5.

5. Slide the weather boot over the 'F' connector and socket to make a good seal - see Fig. 6.
Make sure that the coax cable is taped to the mast. Use insulating tape, to secure the the coax downlead to the mast.

6. Finally connect the aerial to your TV or other reception device and check the picture. Fine adjust the direction of the aerial to obtain the optimum signal reception.
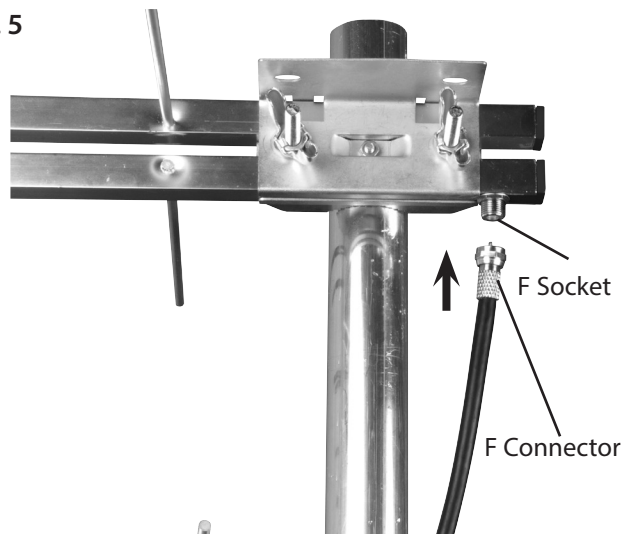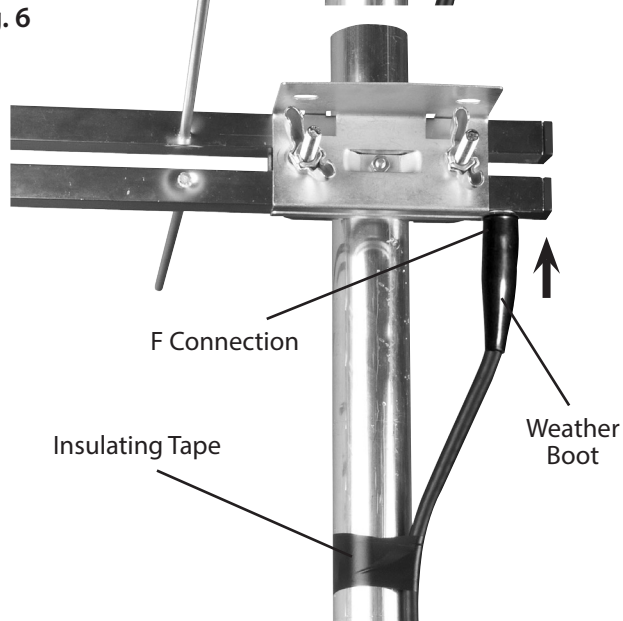
Troubleshooting

No picture:
Check all connections from aerial to TV.

Poor picture:
Check all connections from aerial to TV.
Check aerial is properly aligned to the correct transmitter.
If the aerial has been loft mounted try mounting outside.

Make sure new digital coax cable has been used throughout the installation.
Check the transmitter signal is not obstructed by nearby trees or buildings.

If in a very weak signal area or for long cable runs, installing a masthead amplifier will improve the signal.

If in a strong signal area the signal strength may need to be reduced by fitting an attenuator.

Specifications

Frequency Range MHz	470-790
TV Channels	21-60
Forward Gain dBd	5.3
Forward Gain dBi	7.5
Front/Back Ratio dB	>17.0
Beam Width +/-deg.	+/-30°
PCB Balun	LTE800 Filter
Connector	F-Type
Length	445mm
Width	315mm

Fig. 5

F Socket

F Connector

Fig. 6

F Connection

Insulating Tape

Weather Boot

Caution
When mounting the assembled aerial, always observe safety precautions and use the correct equipment.
Unless you are competent in the use of ladders and other access equipment, do not work outdoors at roof height.

If in any doubt, refer to a qualified aerial installer.

For further information, please contact:
Customer careline: 08457 573479
(Local Rate - UK Only)
Technical Support: www.philex.com/support/

Other Useful Websites for Digital Advice:
*To find out what DTT channels should be available locally and to find out where your nearest transmitter is (distance and compass bearing) visit: Digital UK Website:
http://www.digitaluk.co.uk/postcodechecker/