

# B4RN<sup>®</sup>

## House Kit - Quick Installation Guide

The preferred method of installation of the Fibre Wall Outlet (FWO) and the Customer Connection Enclosure (CCE) is provided in this leaflet.

If a different installation method is required, please discuss with a champion or a member of the B4RN team who has been trained in the installation of FWO & CCE.

No other equipment or additional wiring should be added or installed in either the CCE or FWO. If additional equipment or wiring has been installed into the CCE or FWO the B4RN connection will not be made live.

For any additional support or advice on installing the FWO or CCE that is not in the standard way please email: [connections@b4rn.org.uk](mailto:connections@b4rn.org.uk) to discuss. It MUST have approval from the Head of Connections

**If in doubt, contact B4RN: 01524 555887**

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## Installing the Fibre Wall Outlet (FWO)

The FWO comes with a pre terminated fibre optic cable attached which needs to be fed through the pre drilled hole in the wall to the outside box. Ideally the two boxes should be 'back to back' and the surplus cable is coiled up inside the outside box (see over).

The router will generally be wall mounted above the FWO. However, if the router is required to be placed on a surface or in a different place, a longer fibre cable can be provided at extra cost.

The cable can be protected in the wall with a short length of white 5mm duct or 7mm black duct. These may need to be fed through the hole in the wall with the help of a long straight rigid wire or by taping it to the drill bit and pulling it back through.

To protect the cable from damage inside the cavity and from loose rubble or vermin a length of 8mm copper pipe or protective sleeving could be used.

## Tools and Equipment

Masonry drill, spirit level

Suitable drill bits in size and length to suit supplied screws and plugs

Protective sleeve if required (copper pipe, plastic tube), suitable sealant

Suitable filler / cement

## Safety Equipment

Personal protective equipment (PPE)

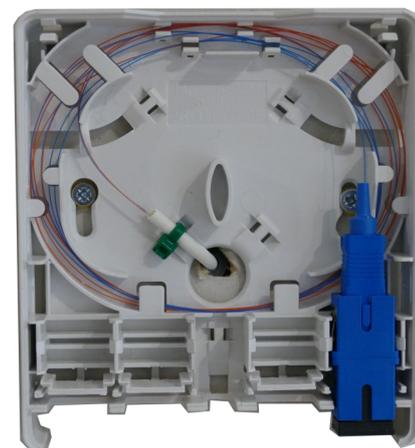
Goggles or safety glasses, pipe and live wire detector

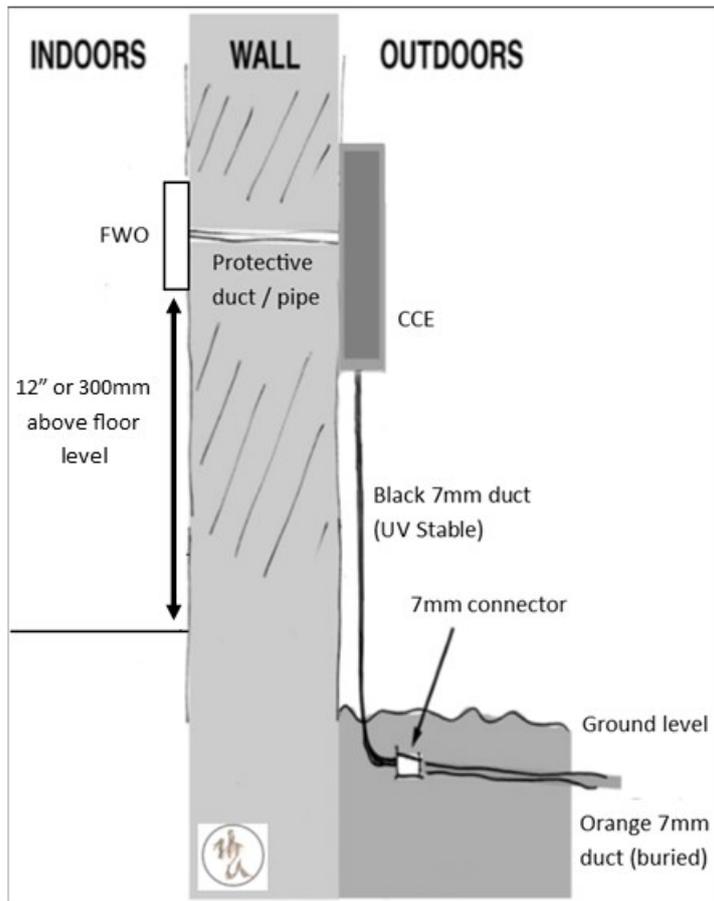
## Safety

- Do I clearly understand what is required?
- Am I trained to do the work and familiar with the equipment/task?
- Are the tools & equipment in a safe condition?
- Do I have approved documentation for the task?
- Have I informed others who may be affected by my work?
- Do I have the correct PPE?
- Are there any hazards? Have they been minimised or removed?



Caution: to secure the FWO you will need to remove the blue pigtail. Tape or secure to the top of the box, tighten up the screw, and then replace the blue pigtail. **Check no fibre will be damaged when replacing the lid.**





**Preferred method of installation**

## STEPS

Assess the best place for the installation

1. Use the template overleaf to mark and check the position of the FWO and the hole for the fibre entry. Use a stud detector to check for services. Check outside for the external position of the CCE.
2. Drill the wall and push through the protective tube between the inside and outside.
3. Using the template mark and drill the fixing holes for the CCE. Cut ducting flush with wall. Drill out the central hole in the Customer Connection Enclosure (CCE).
4. Install plugs and attach CCE to the external wall.
5. Return inside to feed the fibre cable through the large hole and fix the FWO in place by locating the screws in the rear face of the FWO and twisting back.
6. Carefully remove the FWO lid and lift out the blue connector. Either tape or blu-tac this on top of the box so

## Drilling House Walls

When drilling house walls be sure to get the owners express permission first. Have them agree to exactly what you intend doing (and ensure you've taken the precautions regarding electrical cables, pipes, battens etc).

Drilling from the inside-to-outside can result in a small lump of render or stone chipping off the outside wall. Do warn the householder. Drill slowly, switch off hammer action for last part of drilling and do not apply excess force.

Drilling from the outside-to-inside can similarly cause extended damage to interior finish (though this is usually covered up by the FWO).

Also consider accuracy - where you start drilling will be predictable but where your drill comes out the other side will be less so!

Whichever way you drill please ensure from inside-to-out is a slight downward slope of a few degrees so that any moisture will not run back into the house. The hole can be sealed using suitable building sealant to prevent water ingress or draughts.

that the fibre does not snag. Level the box and tighten the screws. Replace the pre terminated blue connector into the unit and carefully wrap the fibre in place. Take care when replacing them that the fibre does not get trapped when the lid is replaced.

## **Outside the property**

1. Gently wrap in the white protective fibre.
2. Bring approximately 60mm of of black 7mm duct into the bottom right entry point of the outside box. Secure with a p-clip.
3. Install foam seals (provided) and secure in place with a cable tie. Seal the other entry points with the other foam pieces.
4. Close the CCE door a secure.
5. This is the standard installation, if you require a different method please contact your locally trained installer.

# Exterior Customer Connection Enclosure (CCE) Template



TOP

Fixing point

CUSTOMER  
CONNECTION  
ENCLOSURE  
(CCE)

W0306558-25933

White fibre cable entry point (from property). Wrap gently inside the box. Do not secure.

7mm black duct entry point (from the network). Secure with cable tie.

Fixing point

Fixing point

250mm

**Interior Fibre Wall Outlet (FWO) Template**  
(Note: The distances between the fixing points are to scale. However, the clearances stated around the FWO are **not** to scale.)

