



How to upgrade to a 2 gang Wi-Fi Extender socket

Includes Wi-Fi Extender + USB



Plan It: things you will need



Positioning your Wi-Fi Socket

Your Wi-Fi socket should be positioned half way between your router and Wi-Fi dead-zone. Use the signal strength on your mobile device to determine the mid-signal point.



Choose a location away from Bluetooth devices and other household electronics (cordless phone, microwave oven, baby monitor, etc.) to minimise signal interference.

Upgrading to a 2 gang Wi-Fi Extender socket



To start, make sure you are familiar with the safety warnings in this leaflet, the instructions supplied with the product and the mains supply is turned off.



At the consumer unit, find the trip switch which protects the circuit and turn it all the way off. The indicator window should stay green.



Test power is not supplied to the socket by using a plug in socket tester or multimeter. Unscrew the retaining screws on the socket so that it is released from the mounting box.

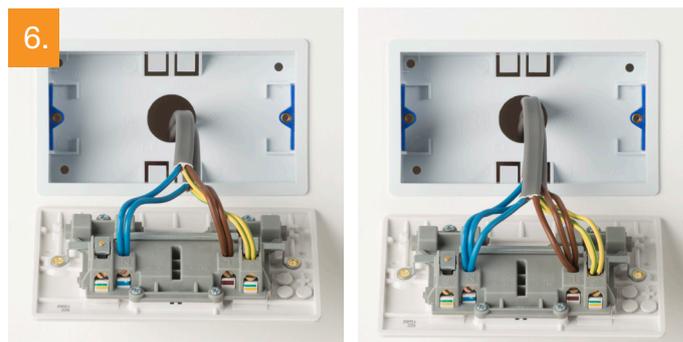


Gently ease the socket from the mounting box to show the wiring.

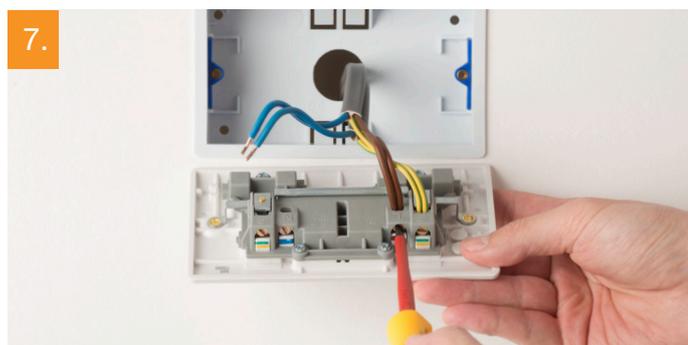
Upgrading to a 2 gang Wi-Fi Extender socket (continued)



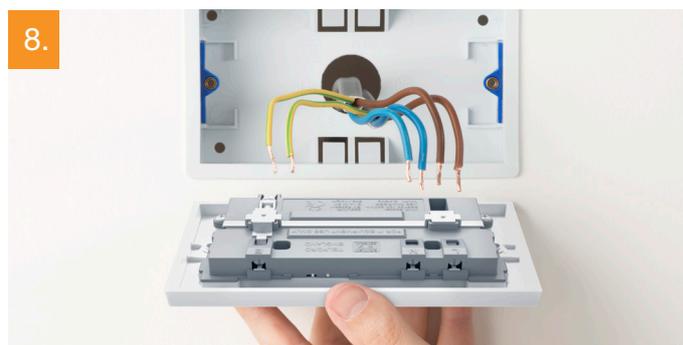
5. There will generally be three different wiring configurations. This photo shows a single wire of each colour connected to each terminal.



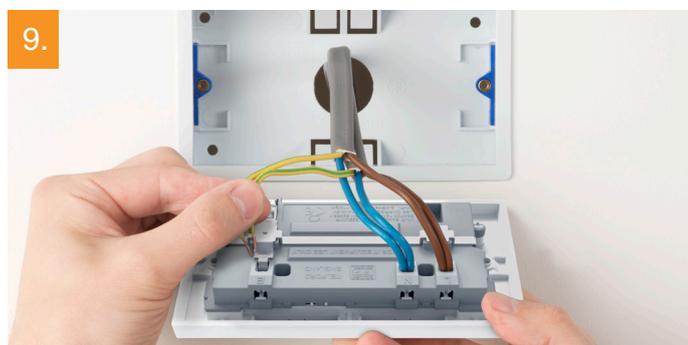
6. Alternatively, there could be two or three wires of each colour connected to each terminal.



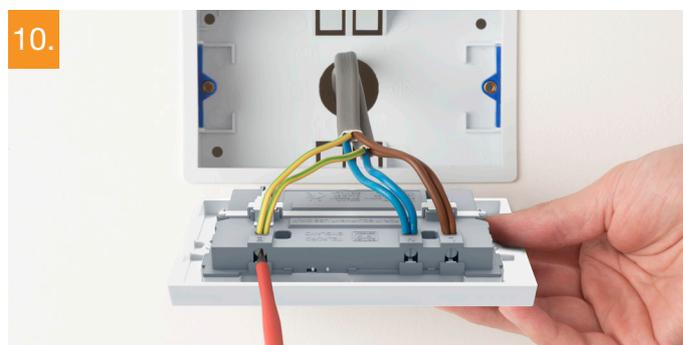
7. Whichever wiring configuration you find, unscrew each terminal screw to release the wires. You should now be able to remove the socket and place it to one side.



8. Line up the new socket and take note of where each terminal is located.



9. Place the blue wire(s) into the neutral terminal, brown into the live terminal and green/yellow into the earth terminal. The terminals on the socket are colour-coded to help locate the correct one.



10. Make sure that the wires are fully inserted into the terminal and that no bare copper wire is visible. Tighten the screws securely onto the copper wire, not the outer sheathing.



11. Gently press the socket back into place over the mounting box. Take care not to trap any wires between the wall and the socket.



12. Insert and tighten the retaining screws provided. Use a spirit level to make sure that socket is level. Restore the power at the consumer unit and test.

Wireless setup

After the initial power up the LED indicator will illuminate with a solid blue light. After a short period of time the indicator will then start to blink and the product will then be ready for set-up. Proceed with your preferred method of connection.

There are three installation methods to connect to the Wi-Fi socket;

QR code - Scan the QR code to take you directly to the setup page.

Web browser - using your computer, smart phone or tablet's internet browser (Safari, Chrome, Firefox, Edge, Internet Explorer).

WPS (Wi-Fi Protected Setup) - One touch setup, no configuration needed.

QR code setup



- On your smartphone or tablet, connect to a new Wi-Fi network called “BG” (no password is required).
**Note: if the BG network is not showing, please reset the Wi-Fi socket.*

- Scan the QR code.

- Select the Wi-Fi network to be extended.



- Enter your Wi-Fi router password.

- Ensure tick-box “Set Local & Internet SSID as the same” is ticked. This will change the BG network name to match your current router network name.

- Click ‘Next’.

**Note: Should you need to change the network encryption mode, choose from the drop-down menu. Default is WPA2-PSK. Refer to your router handbook for further details.*

- Click ‘Apply’.

- The Wi-Fi socket should show a solid blue LED, and is now ready to use.

- Your device will connect using your existing Wi-Fi network name.

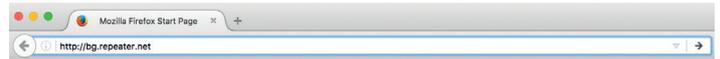
Web browser setup



- Connect to a new Wi-Fi network called “BG”. (no password is required)

**Note if the BG network is not showing, please reset the Wi-Fi socket.*

- Enter **http://bg.repeater.net** into your browser search bar.



- Select the Wi-Fi network to be extended.

- Ensure tick-box “Set Local & Internet SSID as the same” is ticked. This will change the BG network name to match your current router network name.

- Click ‘Next’.

**Note: Should you need to change the network encryption mode, choose from the drop-down menu. Default is WPA2-PSK. Refer to your router handbook for further details.*

- Click ‘Apply’.

- The Wi-Fi socket will show a solid blue LED, and is now ready to use.

- Your devices will connect using your existing Wi-Fi network name.

WPS (Wi-Fi protected) setup

- Press and hold the WPS button on your router for 5 seconds.

**Note: WPS connection may differ for each manufacturer, please refer to your router handbook for your specific WPS connection method.*

- Press the WPS/RST button once on the Wi-Fi socket.

- The LED will blink orange whilst connecting to your router.

- Once connected, the LED will light solid blue.

- Your devices will connect using your existing Wi-Fi network name.



Things to think about

For your safety, this product must be installed in accordance with local Building Regulations.

If in any doubt, or where required by the law, consult a competent person who is registered with an electrical self-certification scheme. Further information is available online or from your Local Authority.

Please read carefully and use in accordance with these safety wiring instructions. Before commencing any electrical work ensure the supply is switched off at the mains. Either by switching off the consumer unit or by removing the appropriate fuse. Wiring should be in accordance with the latest edition of the IET regulations (BS 7671) To prevent fire hazard always use cable of the correct rating, size & type for the application.

Any bare earth wires must be covered with appropriate green/yellow sleeving. Warning do not exceed the load rating of this device as stated on the rear of the product.

Always refer to and follow precisely the manufacturer's instructions when fitting a new socket. Any electrical installation must comply with Building Regulations, specifically Part P, which came into effect on 1 January 2005, with the amended version coming into effect on 6 April 2006. A further update came into force on 6 April 2013. Refer to these regulations before carrying out any electrical work. Download at www.planningportal.gov.uk.

Replacing a socket is non-notifiable under Part P, and therefore it is not necessary to have the work carried out by a qualified electrician, or to inform your local authority building inspector of the work, except in high-risk areas, or special locations, such as bathrooms.

For a full list of these locations, refer to Part P. Part P strongly advises taking advice from a qualified electrician for carrying out any DIY electrical work. All electrical work must be tested and inspected.

This guide shows fitting a metal socket onto a plastic flush mounting box and the instructions shown over page only relate to plastic mounting boxes. If you have metal mounting boxes, earthing requirements will vary, so refer to the manufacturer's guidelines.

If the socket you are changing has two earth terminals, this means that it has a dual earth facility, which is required if you need to comply with Regulation 607 of BS7671. As always, follow the manufacturer's guidelines and recommendations in such instances.

If you find earth wires are bare, you must sheathe them with green and yellow sleeving.

Colours used in hard-wire installations (including cables supplying sockets) have changed in recent years. The table below shows the different colours for wires, prior to and after April 2004.

Pre April 2004	
LIVE	Red
NEUTRAL	Black
EARTH	Green and Yellow

Post April 2004	
Brown	
Blue	
Green and Yellow	

The information in this leaflet shows post April 2004 wiring.

How to upgrade to a 1 gang USB socket

How to upgrade a 2 gang socket

How to upgrade to a 2 gang USB socket

How to upgrade a cooker control outlet

How to upgrade a dimmer switch

How to upgrade a light switch



View more of our 'How to' guides online at bgelectrical.uk