Manuals+ — User Manuals Simplified.

BG ELECTRICAL N300 Wi-Fi Socket Range Extender Instruction Manual

Contents

BG ELECTRICAL N300 Wi-Fi Socket Range Extender

Product Information:

WIFIIL/H Wiring Accessories Wi-Fi Socket Range Extender, N300

The WIFIIL/H Wiring Accessories Wi-Fi Socket Range Extender, N300 is a product that extends the range of your Wi-Fi signal by positioning it halfway between your router and the Wi-Fi dead-zone.
It has an LED Wi-Fi indicator, WI-FI signal antennas, screw cover, 2.1A USB charging socket, WPS/RST button, screw holes, live, neutral earth terminals, and a mounting box earth terminal. The USB port on the product can charge mobile devices such as mobile phones, MP3 players, and tablets.
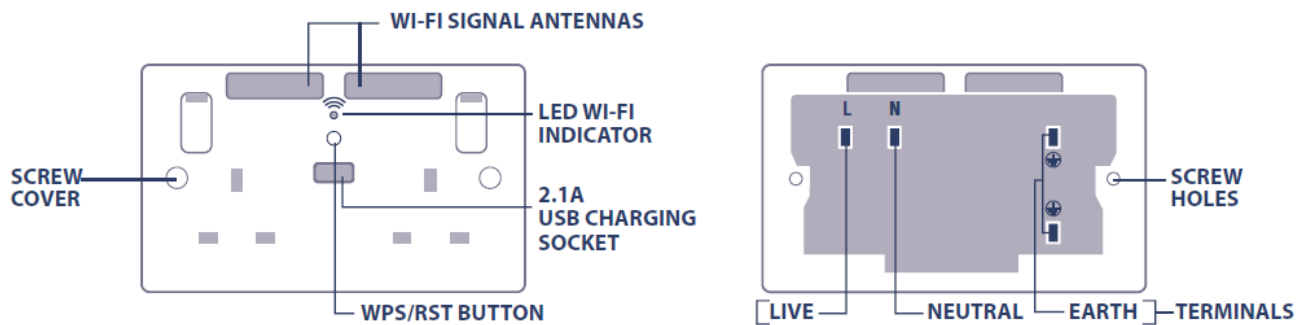
Safety Warning

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. INDOOR USE ONLY. 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 IET regulations (BS 7671). To prevent a fire hazard always use a cable of the correct rating, size & type for the application. Any bare earth wires must be covered with the appropriate green/yellow sleeving. Any decorative products MUST have an earth connection between the front-plate and back box.
Warning: do not exceed the load rating of this device as stated on rear of the product.

Environmental Protection: Dispose of the product responsibly in accordance with local regulations. This symbol is known as the "Crossed-out Wheelie Bin Symbol". When this symbol is marked
on a product or battery, it means that it should not be disposed of with your general household waste. Some chemicals contained within electrical/electronic products or batteries can be harmful to health and the environment. Only dispose of electrical/electronic/battery items in separate collection schemes, which cater for the recovery and recycling of materials contained within. Your co-operation is vital to ensure the success of these schemes and for the protection of the environment.
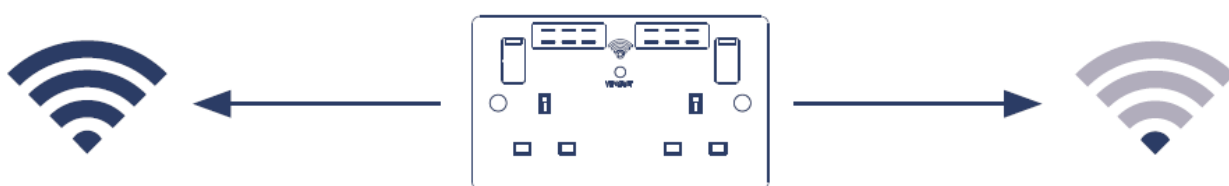
Product overview

Diagram labels (left unit): WI-FI SIGNAL ANTENNAS, LED WI-FI INDICATOR, SCREW COVER, 2.1A USB CHARGING SOCKET, WPS/RST BUTTON

Diagram labels (right unit): L, N, SCREW HOLES, LIVE, NEUTRAL, EARTH, TERMINALS

Product Usage Instructions

1. **Positioning Your Wi-Fi Socket:**
   - Place the Wi-Fi socket halfway between your router and the Wi-Fi dead-zone.

   - Use the signal strength indicator 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 minimize signal interference.

2. **Wiring Instructions:**
   - Power off before commencing work and always isolate the power at the consumer unit/fuse box.
   - If replacing an existing socket (removal), unscrew the socket from the wall/mounting box.
   - **Note the cable connections:** There will generally be three different wiring configurations, this illustration shows a single wire of each color connected to each terminal (there could be two or three wires of each color connected to each terminal) + an additional connection between the mounting box earth terminal and the socket earth terminal.
   - Unscrew each terminal to release the wires.
   - Connect the wires to the appropriate terminals on the Wi-Fi socket.

     Wire Identification – Twin & Earth Cable

     Note – As from 1st April 2004 new colour codes for hard wire installations were introduced.

     EARTH = Green/Yellow Sleeving

     NEUTRAL = Black (pre Apr 04) / Blue (after Apr 04)

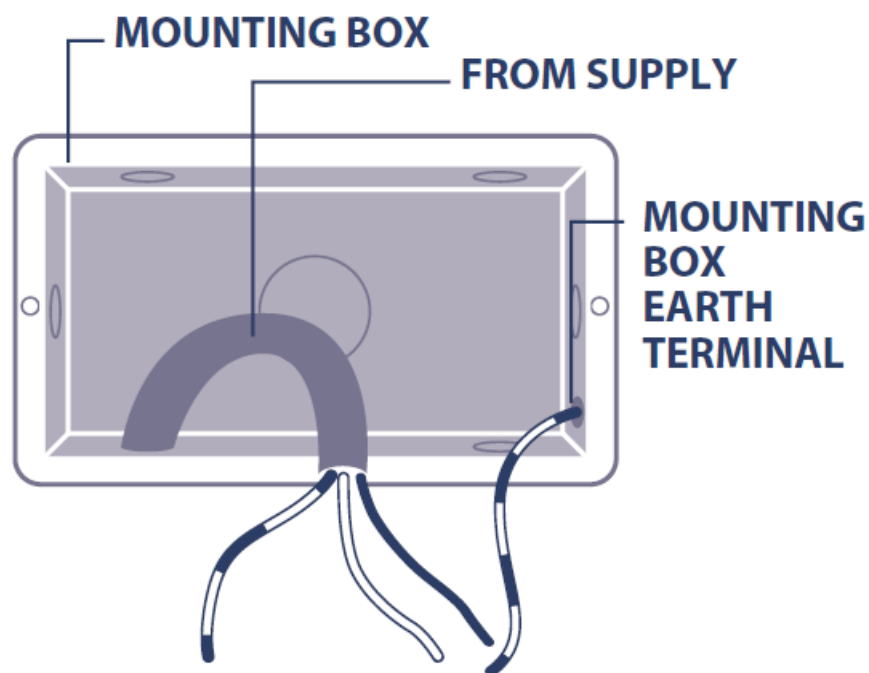   **LIVE** = Red (pre Apr 04) / Brown (after Apr 04)

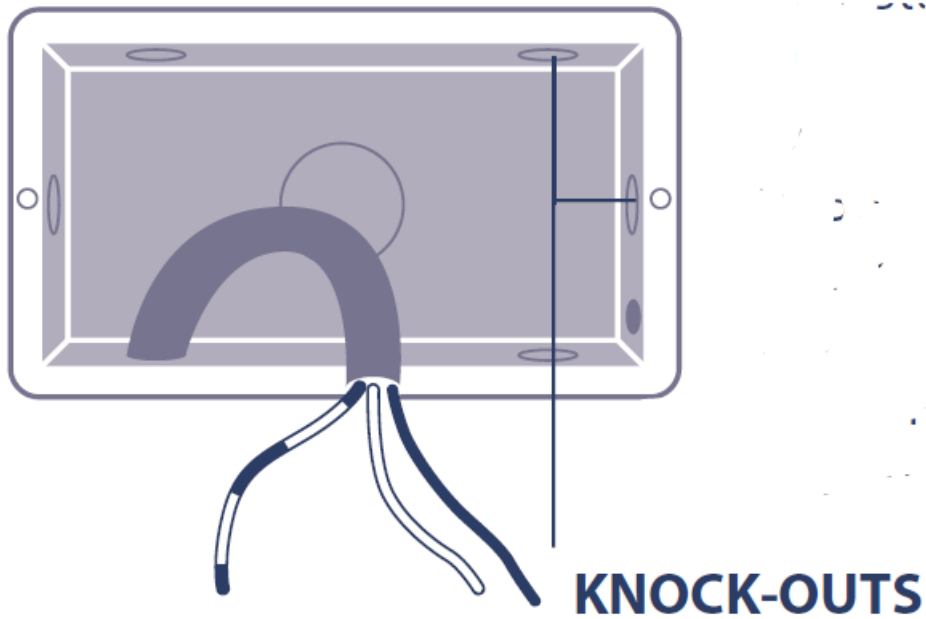

E
N
L

3. **USB Charger Information:**
   - The USB port on the product can charge mobile devices such as mobile phones, MP3 players, and tablets.
   - The front surface of this product may become warm in use. This is normal and not cause for concern.
   - The USB output input is 5.0V DC 2.1A, 10.5W MAX.
   - The efficiency at low load(10%) is >79.04%, and the efficiency at no load power consumption is >70.08%.
   - The USB port number is 1, and the USB PCBA model name is N/A.
   - The manufacturer's model identifier is WIFIIL/H.

Replacing an existing socket (removal)

1. Unscrew the socket from the wall/mounting box.
2. Note the cable connections: There will generally be three different wiring configurations, this illustration shows a single wire of each colour connected to each terminal (there could be two or three wires of each colour connected to each terminal) + an additional connection between the mounting box earth terminal and the socket earth terminal.
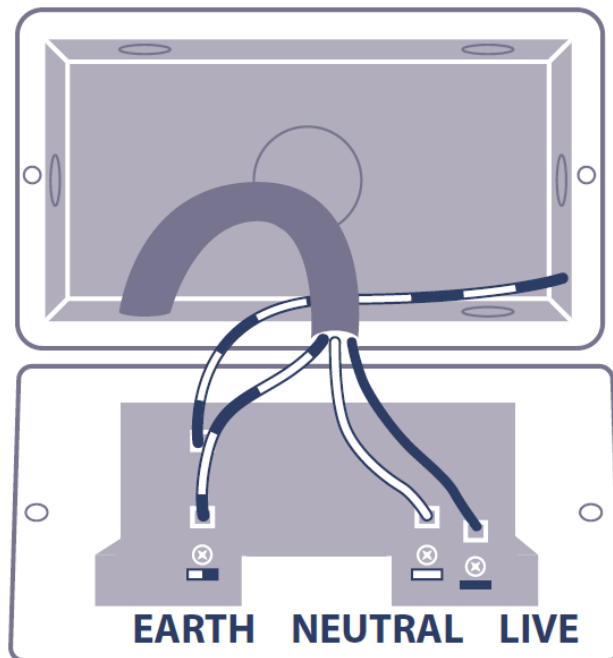3. Unscrew each terminal to release the wires.

New installation

KNOCK-OUTS

1. Install the mounting box (metal or patress) for either flush or surface mounting, ensuring appropriate size of product. (mounting box to be purchased separately)
2. Select the most suitable entry point of the mounting box (knock-out) and route the supply cable through.
3. Cables should be prepared so a sufficient conductor length reaches the terminals. Strip the ends of the individual conductors leaving an adequate length bare to enter terminals.
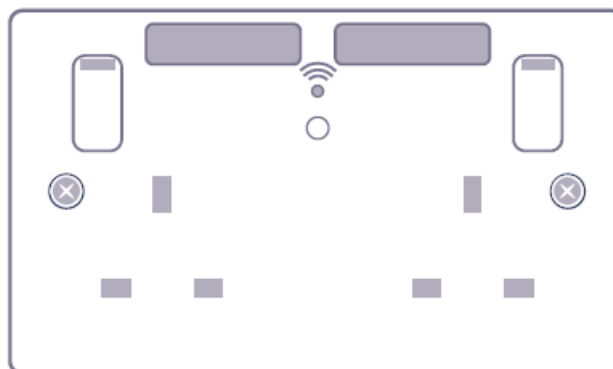
Wire up your socket

1. Line up the new socket to the mounting box and take note of where each terminal is located.
2. Connect each wire to the matching terminal. (refer to key in step 2) An earth connection should always be made between the mounting box earth terminal and the socket earth terminal. Make sure no copper wire is exposed & that only the bare end enters the terminal.
3. Tighten terminal screws securely. (do not over tighten)

Complete the installation

1. Carefully position the accessory into the mounting box, ensuring that no wires are trapped between the plate and the wall, and secure with screws (do not over tighten). Then set screw covers in place (optional).

2. Once installation has been completed correctly, replace the fuse for the circuit, switch the power back on at the consumer unit and test.

Insulation testing

This socket outlet is designed to withstand insulation resistance testing at 500V as defined by BS1363-2.

- Perform insulation test between Line & Neutral at 250V.
- 500V test may be performed between Line & Earth, Neutral & Earth. Or,

- Disconnect all Neutral connection in the socket and connect into terminal block before replacing the socket prior to test.

USB Charger Information

2.1 A USB port for charging mobile devices such as mobile phones, MP3 players and tablets.

2.1A 5V output fromthe USB output

- 2.1 A is sufficient power output to charge the majority of USB products.
- The total output current achieved is dictated by specific device being charged and other external factors, such as the quality of charging cable being used.
- Overload protection for connected devices.

Low energy stand-bymode

- When not in use the USB socket is in a low energy stand-by mode. The USB circuits on this socket are designed to withstand insulation resistance tests at 500V.A reading of
  0.4 +/-0.05 is typically caused by the USB socket
  Note – The front surface of this product may become warm in use. This is normal and not cause for concern.

Additional Advice for Decorative Products
Fixing method varies depending on which product range is supplied. Always ensure wall surface is reasonably flat and smooth, with no bumps or projections. Metal front plates WITH screw fixing holes, fix the unit to the back box using two fixing screws supplied. All Decorative products MUST have an earth connection between the front plate and back box. Front plates WITHOUT screw fixing holes. These products comprise main unit with integral gasket, and front plate as separate item. Fix unit to back box using two fixing screws supplied. Clip front plate onto main assembly, ensuring screwdriver notch is located bottom right hand corner. To remove plate, place medium size flat bladed screwdriver in notch and lever off against gasket.

Care

To maintain the high quality appearance of decorative finish switches and sockets, BG Electrical recommend the use of a soft cloth periodically to clean the front face. When installing a decorative product please ensure that the wall is decorated, finished and free of moisture prior to installation. BG Electrical recommends avoiding using, but not restricted to, these substances from becoming in contact with the decorative metal front-plates when cleaning or decorating:

- Adhesive tape, including low tack masking tape
- Solvents
- White spirit
- Multi surface cleaners
- Industrial multipurpose cleaning wipes
- Wet wipes
  Using items like those listed above may cause a degrading effect to the front-plates lacquer/plated finish, although the function will remain unaffected.

Wi-Fi Socket Setup Instructions

Ensure that your Wi-Fi socket is connected to the power supply as per 'Wiring instructions'. 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:

Wireless Setup
There are three installation methods to connect to the Wi-Fi socket:

- Web browser – Using your computer, smart phone or tablet's internet browser (Safari, Chrome, Firefox, Edge, Internet Explorer).
- QR code – Scan the QR code to take you directly to the setup page.
- WPS (Wi-Fi Protected Setup) – One touch setup, no configuration needed.

Web browser setup

- Connect to a new Wi-Fi network called "Wi-Fi Socket" (no password is required).
  ***Note**: if the "Wi-Fi Socket" network is not showing, please reset the Wi-Fi socket.
- Enter the URL **http://WiFi-Socket.repeater.net** into your browser search bar.

- Select the Wi-Fi network to be extended.
- Enter your Wi-Fi router password.
- Ensure the tick-box "Set the same SSID & Password " is ticked. This will change the "Wi-Fi Socket" 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.

Please note – this is a set-up website only that is hosted by the Wi-Fi socket. For more information or support please visit **www.bgelectrical.uk**
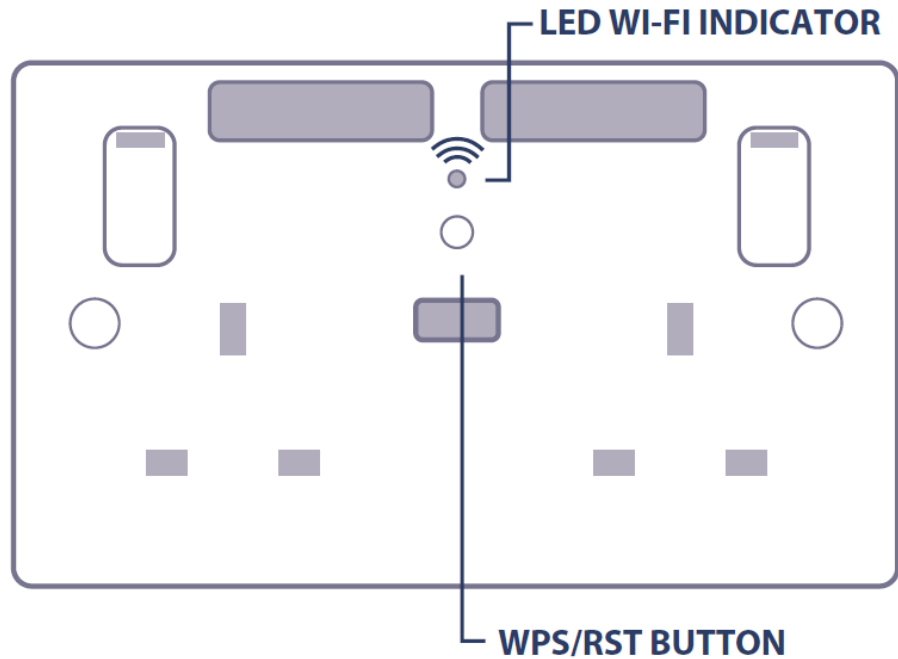
QR code setup

- On your smartphone or tablet, connect to a new Wi-Fi network called "Wi-Fi Socket" (no password is required).
  ***Note**: if the "Wi-Fi Socket" 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 the tick-box "Set the same SSID & Password" is ticked.
- This will change the "Wi-Fi Socket" 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 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 connectio 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.

LED WI-FI INDICATOR

WPS/RST BUTTON

Resetting Your Wi-Fi Socket

- Press and hold the WPS/RST button on the front of the Wi-Fi socket for 5 seconds
- The LED will blink amber/blue and then extinguish.
- Wait for a blue blinking LED to return.
- Your Wi-Fi socket is now ready to setup

Turning Off theWi-Fi Function (Holiday Mode)

- Press the WPS/RST button 3 times to turn off the RF (Wi-Fi) signal. The LED will extinguish.
- To turn the functionality back on, press the WPS/RST button 3 times. The LED will show solid blue and Wi-Fi connectivity will be restored.

  *__Note__: The 13A socket outlets work independently and are unaffected by holiday mode.

FAQ's

The "Wi-Fi Socket" network is not showing in my list of networks?
A: Please reset your Wi-Fi socket (Refer to the 'Resetting your Wi-Fi socket' section) then try again.
I can't see the login page after typing http://WiFi-Socket.repeater.net in the browser, or by scanning the QR code?
A1: Make sure your computer/phone/tablet is connected to the "Wi-Fi Socket" Wi-Fi network.
A2: Ensure your Wi-Fi socket is connected to the power and the blue LED indicator is lit. Once connected, reset the socket.
How do I reset the Wi-Fi socket?
A: Refer to the 'Resetting your Wi-Fi socket' section.
My router doesn't have a WPS button, what do I do?
A: Please use the 'Web browser' method to setup your Wi-Fi socket.

Setup Advice & How-to Guides

Visit **www.bgelectrical.uk/wifi** for additional support

Technical

- Voltage : 220-240V ac
- Frequency : 50/60Hz
- Rating : 13A
- Terminal capacity : 3 x 2.5mm² 3 x 4mm² 2 x 6.0mm²
- Min box depth (profiled plates) : 25mm
- Min box depth (flat plates) : 35mm or 25mm with spacer provided.
- WiFi Specification: N300 MBPS, 2.4GHz
- Network Standards: 802.11 b/g/n
- **Note** – The front surface of this product may become warm in use. This is normal and not cause for concern. Lic No.1182

  ASTA Approved

  The ASTA quality mark is evidence that the product has been independently tested to comply with the relevant clauses of the applicable standards.

Batch Code Explanation
yy Wxx Manufacturing date code, year of manufacture (yy) and week of manufacture (Wxx)

Address/Helpline

Luceco PLC
Stafford Park 1
Telford TF3 3BD
ENGLAND

(EU) Luceco SE
C/ Bobinadora 1-5
08302 Mataró
SPAIN

If you have further technical assistance you can get in touch with our
Technical Helpline on:
+44 (0)3300 249 279
technical.support@bgelectrical.co.uk

Documents / Resources

BG ELECTRICAL N300 Wi-Fi Socket Range Extender [pdf] Instruction Manual
N300 Wi-Fi Socket Range Extender, N300 Wi-Fi, Socket Range Extender, Range Extender, Extender