



Wiring Accessories

Wi-Fi Socket Range Extender, N300

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.

If in doubt always consult a competent electrician.

MAINTENANCE

To keep the finish of this product, wipe over with a soft dry cloth periodically.

Environmental Protection



This symbol is known as the "Crossed-out Wheellie 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.

Positioning Your Wi-Fi Socket

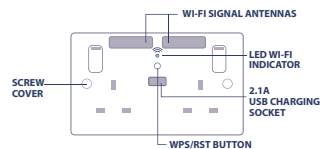
Your Wi-Fi socket should be positioned half way between your router and the Wi-Fi dead-zone use the signal strength indicator on your mobile device to determine the mid-signal point.



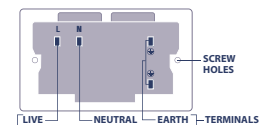
Choose a location away from Bluetooth devices and other household electronics (cordless phone, microwave oven, baby monitor, etc.) to minimise signal interference.

Product Overview

Wi-Fi Socket Range Extender



Rear of Socket



Wiring Instructions

1 Power off

BEFORE COMMENCING WORK ALWAYS ISOLATE THE POWER AT THE CONSUMER UNIT / FUSE BOX.



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)



USB Charger Information

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

2.1A 5V output from the 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-by mode

- 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 0.4Ω +/-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.

USB Output	5.0V DC 2.1A, 10.5W MAX
Input	220-250V ~ 50/60Hz
Average active efficiency	>79.04%
Efficiency at low load(10%)	>70.08%
No load power consumption	<0.10W
USB Part number	1 Part
USB PCBA Model name	CH-Wi-Fi-Power-U
Manufacturers model identifier	x22UWR*
Note	x = range, 4, 8, 9, Ez, Fz, PC, Dy, Sz, Tz, Nz, Cz, MC5z * = insert colour: 'W', 'B' or 'G'; y = PCD/PC finish 'WH', 'CL', 'BS', 'PC', 'BC', 'AB', 'SB', 'MB', 'MG', 'CH', 'BN'; z = Metal finish 'BS', 'PC', 'BN', 'AB', 'PR', 'SL'.

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 frontplates 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 frontplate and back box. Frontplates WITHOUT screw fixing holes. These products comprise main unit with integral gasket, and frontplate as separate item. Fix unit to back box using two fixing screws supplied. Clip frontplate 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.

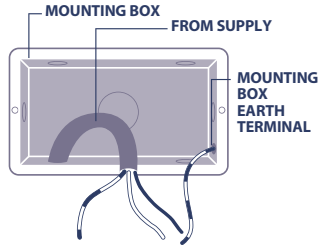
BG Electrical recommends avoiding using, but not restricted to, these substances from becoming in contact with the decorative metal front-plates when cleaning or decorating:

- 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.

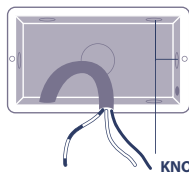
2a Replacing an existing socket (removal)

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.



OR

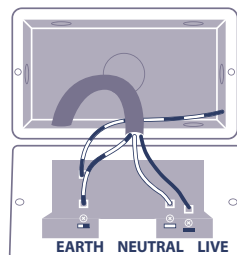
2b New installation



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.

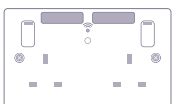
3 Wire up your socket

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)



4 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.



5 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.

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://Wi-Fi-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.



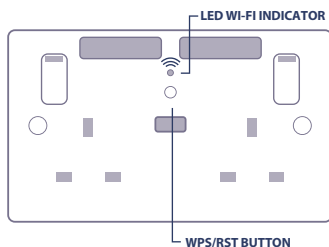
- Select the Wi-Fi network to be extended.
- Enter your Wi-Fi router password.
- Ensure the tick-box "Set the same SSID & Password" is ticked.
- This will change the "Wi-Fi Socket" network name to match your current router network name.
- Click 'Next'.
**Note: Should you need to change the network encryption 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 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.



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 the Wi-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://Wi-Fi-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.

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.

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

yyWxx 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



(UK) DECLARATION OF CONFORMITY

Product	
<ul style="list-style-type: none"> • Product name – Wi-Fi Socket Range Extender, N300(x22UWR) • Type / batch or serial number range 21W25 to 23W25 	
Name and address of the manufacturer or his authorised representative:	
Luceco plc, Luceco UK Ltd. Building E, Stafford Park 1 Telford, Shropshire TF3 3BD, UK	
The object of the declaration described above is in conformity with the relevant legislation:	
Radio Equipment Regulations 2017 as amended The Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 as amended The Ecodesign for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019	
References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared:	
BS 1363-2:2016+A1:2018 EN 62368-1:2014+A11:2017 EN 62680-1-1:2015 EN 62311:2020 ETSI EN 301 489-1 V2.2.3	ETSI EN 301 489-17 V3.2.4 EN IEC 61000-6-1:2019 EN 61000-6-3:2007+A1:2011 ETSI EN 300 328 V2.2.2 EN50563: 2011+A1:2013 + 2019/1782
Signed for and on behalf of Luceco UK Ltd	
Name: David Cleaver	Signature:
Position: Senior Product Manager	On [18/06/2021]



(EN) EU DECLARATION OF CONFORMITY

Product	
<ul style="list-style-type: none"> • Product name – Wi-Fi Socket Range Extender, N300(x22UWR) • Type / batch or serial number range 21W25 to 23W25 	
Name and address of the manufacturer or his authorised representative:	
Luceco plc, Luceco Southern Europe, S.L. C/ Bobinadora 1-5 08302 Mataró Barcelona (SPAIN)	
The object of the declaration described above is in conformity with the relevant legislation:	
2014/53/EU as amended 2011/65/EU as amended 2009/125/EC as amended	Radio Equipment Directive Directive Restriction of the use of certain hazardous substances in electrical and electronic equipment Directive on Ecodesign Requirements for Energy-Related Products
References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:	
BS 1363-2:2016+A1:2018 EN 62368-1:2014+A11:2017 EN 62680-1-1:2015 EN 62311:2020 ETSI EN 301 489-1 V2.2.3	ETSI EN 301 489-17 V3.2.4 EN IEC 61000-6-1:2019 EN 61000-6-3:2007+A1:2011 ETSI EN 300 328 V2.2.2 EN50563: 2011+A1:2013 + 2019/1782
Signed for and on behalf of Luceco SE S.L	
Name: David Cleaver	Signature:
Position: Senior Product Manager	On: [18/06/2021]