NXUSBSKTIL/LPA/F

# WIRING & OPERATING INSTRUCTIONS

## *USB MODULE &13 AMP UNSWITCHED SOCKET WITH USB CHARGER*

**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.
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.

**If in doubt consult a competent electrician.**

**GENERAL INSTALLATION INSTRUCTIONS**

1) If using the new product to replace an old one, note the cable connections and wire up new product in the same way as the old one, with Earthing as stated in these instructions.

2) Ensure the mounting box (metal or patress) for either flush or surface mounting is the appropriate size for the product.

3) Route the cable through the most suitable entry point of the mounting box. If a metal box is used, a protective cable grommet should be used.

4) Cables should be prepared so a sufficient conductor length reaches the terminals. Strip the ends of the individual conductors so that an adequate length enters the terminals.

5) Carefully arrange the wiring to lie along the edges of the product or box, keeping the central area clear.

6) To assist with the correct installation please consult the appropriate wiring diagram on this leaflet.

7) When connecting the new accessory ensure that only the bare end of the wire enters the terminal, and no bare wires are visible.

Always tighten the terminal screws securely, but do not overtighten.

An earth connection should always be made between the mounting box earth terminal, and the accessory earth terminal, where fitted. If this earth wire is bare, it is essential that it is sheathed with a length of green/yellow sleeving.

8) Carefully position the accessory into the wall box, ensuring that no wires are trapped between the plate and the wall. Do not overtighten the screws.



9) Once work has been completed correctly, replace the fuse for the circuit, switch the power back on, and test.

The product is now ready for use.

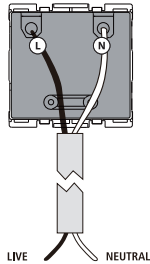
* Note - If your installation uses a four lug metal mounting box, remove the top and bottom lugs or bend fully back.

**DECORATIVE FRONT PLATE INSTRUCTIONS**

Always ensure wall surface is reasonably flat and smooth, with no bumps or projections.
To keep the finish of this product, wipe over with soft cloth periodically.
All Decorative products MUST have an earth connection between the front-plate and back box

### USB Module

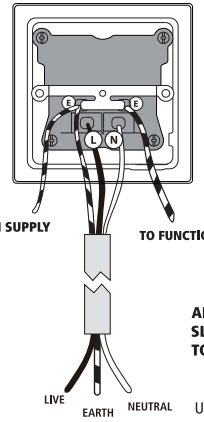
Connect the cables as shown in the diagram.






### 1 GANG 13 AMP UNSWITCHED SOCKET WITH USB CHARGER

Connect the cables as shown in the diagram.



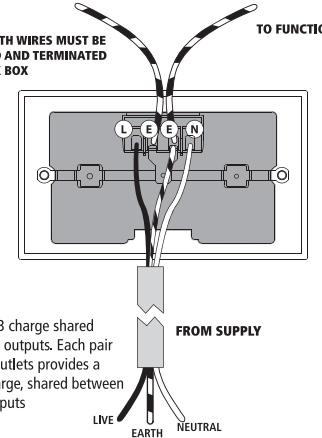

**ALL EARTH WIRES MUST BE SLEEVED AND TERMINATED TO BACK BOX**

USB charge shared between outputs



### 2 GANG 13 AMP UNSWITCHED SOCKET WITH USB CHARGER

Connect the cables as shown in the diagram.




4.2A USB charge shared between outputs. Each pair of USB outlets provides a 2.1A charge, shared between both outputs

## CONNECTION ADVICE

The diagram shows a single cable connection (radial or spur circuit), for a ring main circuit there will be two sets of connections.

EARTH = Green/Yellow Sleeving

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

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

To prevent fire hazard always use cable of the correct rating, size & type for the application.

This socket is fitted with with two linked terminals to provide a dual earth facility. This is for use in "clean earth" installations where additional earth capacity is required to comply with Regulation 607 of BS7671 IET Wiring Regulations.

**Note – The front surface of this product may become warm in use. This is normal and not cause for concern.**

## USB CHARGER INFORMATION

The max power in Watts (W) of each USB outlet is shown on the surface of the product.
When two devices are connected the power output is shared, meaning devices may charge more slowly than with a normal single plug charging.



The charger offers variable voltage fast charge power output from a single USB outlet. Note, the fast charge is only available when one device is connected. When two devices are connected the output power is reduced to a fixed 5V output.
Please refer to the technical table for performance details.

**Low energy stand-by mode**

When not in use the USB sockets are in a low energy stand-by mode.
The USB circuits in this socket are designed to withstand insulation resistance tests at 500V. A reading of 10MΩ minimum is typically achieved by the USB socket.

**Charging Performance**

Several factors can have an impact on the USB charging performance.
Please check the specification table for the output rates and charging protocols of the USB A and C ports, output is reduced when two devices are connected.
The charging performance is dictated by the device connected; a device will have a limit on the power it can receive.
The USB cable plays a significant role in charging speed. Lower quality cables may have higher resistance, limiting the amount of current that can pass through, slowing charging speeds. Higher quality or certified cables, especially for fast charging, can improve performance.
Care should be taken when inserting and removing cables from the USB ports to prevent damage.
Please check your device compatibility instructions to determine whether this product matches your equipment requirements.



| Spec | 21W AAAA (Double Socket) | 12W AA (Single Socket) | 45W AC (Module) | 22W AC (Single Socket) |
|---|---|---|---|---|
| USB Output | 5.0V DC 2.1A, 10.5W MAX | 5.0V DC 2.4A, 12.0W MAX | Type C:<br>5V DC 3.0A 15.0W MAX<br>9V DC 3.0A 27.0W MAX<br>12V DC 3.0A 36.0W MAX<br>15V DC 3.0A 45.0W MAX<br>20V DC 2.25A 45.0W MAX<br>Type A:<br>5V DC 3.0A 15.0W MAX<br>9V DC 3.0A 27.0W MAX<br>12V DC 2.5A 30.0W MAX<br>Type C + Type A:<br>5V DC 5.4A 27.0W MAX | Type C:<br>5.0V DC 3.0A 15.0W Max<br>9.0V DC 2.4A 21.6W Max<br>12.0V DC 1.5A 18.0W Max<br>15.0V DC 1.4A 21.0W Max<br>20.0V DC 1.0A 20.0W Max<br>Type A:<br>5.0V DC 3.0A 15.0W Max<br>9.0V DC 2.4A 21.6W Max<br>12.0V DC 1.5A 18.0W Max<br>Type C + Type A:<br>5V DC 3.0A 15.0W MAX |
| Input | 230V~ 50Hz | 230V~ 50Hz | 230V~ 50Hz | 230V~50Hz |
| Average active efficiency | >79.04% | >79.94% | >80.82% | >81.39% |
| Efficiency at low load(10%) | >70.08% | >71.00% | >77.24% | >72.48% |
| No load power consumption | 1 Port <0.10W<br>2 Port <0.30W | 1 Port <0.10W<br>2 Port <0.30W | 1 Port <0.10W<br>2 Port <0.30W | 1 Port <0.10W<br>2 Port <0.30W |
| USB Port number | 4 Ports,<br>2.1A per pair | 2 Ports | 2 Ports(1 type A, 1 type C) | 2 Ports(1 type A, 1 type C) |
| Manufacturers model identifier | x24U44* | x23U2* | EMUSBAC45* | x23UAC22* |
| Note | x = range,Ez, Lz; * = insert colour, 'W'; z = Metal finish 'BS'. | | | |



## TECHNICAL

Voltage : 220-240V ac
Frequency : 50/60Hz
Rating : 13A
Terminal capacity : 3 x 2.5mm² 3 x 4mm² 2 x 6.0mm²
Terminal Screw Max Torque : 0.8Nm



## ENVIRONMENTAL PROTECTION

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.

## BATCH CODE EXPLANATION

yyWxx: Manufacturing date code; year of manufacturing (yy) and week of manufacturing (Wxx)

**LPA Channel Electric, RG18 3ST.**
**Please retain this information for future reference.**