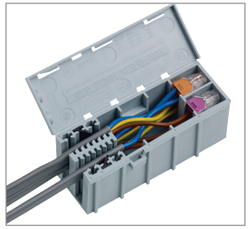
# Also Within The Range

## WAGOBOX

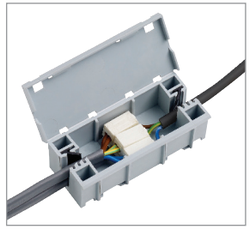
The original multi-purpose electrical enclosure for use with WAGO 222 & 773 series connectors.



- A multi-purpose enclosure
- Designed for use with WAGO 773 & 222 series connectors
- Compact quick grip cable clamps
- BS EN 60670-22
- For power and lighting applications
- BS 5733 (MF) applications
- Compact (108 x 39 x 44mm LxWxH)

## WAGOBOX Light

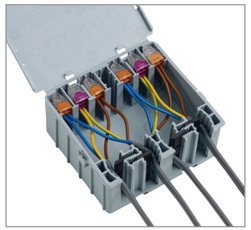
Electrical enclosure designed for lighting circuits.



- For WAGO 224, 260 & 294 connectors
- Connect twin & earth & flex cables
- Quick downlight connections
- No screws or fiddly clamps
- BS EN 60670-22 certified
- Compact (95 x 39 x 29mm LxWxH)

## WAGOBOX XL/XLA

A large capacity general purpose electrical enclosure for 1 or 2 circuits.



- For WAGO 2273 & 221 connectors (XL version)
- Connect 6242Y, NYM-J & Flex cables
- Lighting & Power Circuits
- BS 5733 (MF) applications
- XLA Version for WAGO 773 & 222 Connectors
- BS EN 60670-22 certified
- Compact (115 x 126 x 55mm LxWxH)

## WAGOBOX Capsule

IP68 Adaptable electrical enclosure for external cabling.

- For WAGO Push-wire & Lever connectors
- Connect Armoured, Hi Tuff & LV cables
- Ideal for Garden Lighting
- Available in Grey, Black & Clear
- BS EN 60529 IP68 certified
- Direct burial or surface and post mounting bracket options
- Compact: Lid diameter 92mm, height 122mm, body width 85mm

# WAGO Connectors

## 221 Series Lever Connectors

221-412 / 2-con
0.2 - 4mm² "s"/"st"
0.14 - 4mm² "f-st"
450V/4kV/2[1] - 32A

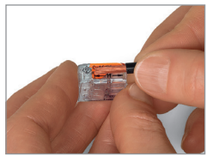
221-413 / 3-con
0.2 - 4mm² "s"/"st"
0.14 - 4mm² "f-st
450V/4kV/2[1] - 32A

221-415 / 5-con
0.2 - 4mm² "s"/"st"
0.14 - 4mm² "f-st"
450V/4kV/2[1] - 32A

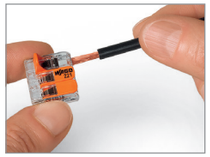
"s" solid "st" stranded "f-st" fine stranded

[1] In grounded (earthed) supply systems

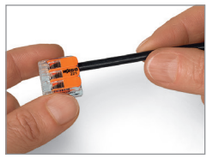
### Operating



1. Strip the conductor 11mm (4mm² version).



2. Open clamping unit using the lever and insert the conductor.



3. Lower the lever to close the clamp to complete the connection. 4. To remove, lift the lever and pull out the conductor.

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# WAGOBOX 221-4

## A Junction Box Innovation

# Installation Instructions

## For BS EN 60670-22 Accessory

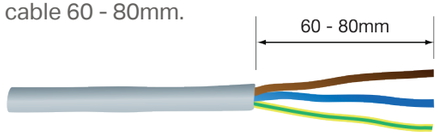
The WAGOBOX 221-4 enclosure is designed for use with WAGO 221-4xx series connectors. The WAGOBOX 221-4 is rated 400V/4KV and can support conductor sizes from 0.2mm² to 4mm². The maximum number of supported individual conductor connections is 20 at 0.2mm² and 20 at 4mm². Each cable clamp can grip cables with an overall diameter between 3mm and 8mm.

***If you are in any way unsure about any of the following steps or how to connect the circuit, then consult a qualified electrician.***

Simpler, Quicker, Safer...

**The WAGOBOX is easy to use and fast to fit.** Just follow the steps below and see how using the WAGOBOX 221-4 will revolutionise the way you work.

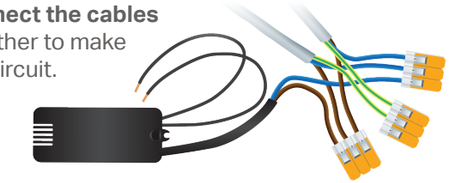
1. **Strip back the outer protective sheath** of the cable 60 - 80mm.



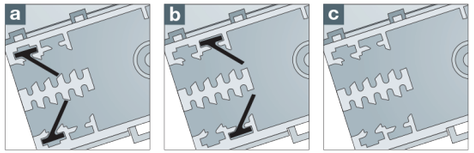

**Note:** Where a 221-415 is used as an earth connector it can be placed across the centre connector location above the mounting button feature. In this case, make the earth wires 10mm longer than the other wires.

2. **Select the appropriate number of WAGO 221-412, 221-413 and 221-415 connectors.**
   - 0.14-4mm2 (solid/stranded)
   - 0.2-4mm2 (solid/stranded)

3. **Connect the cables** together to make the circuit.



4. **Configure the cable clamp** by inserting the provided black plastic grippers in correct position according to size of cable being used.



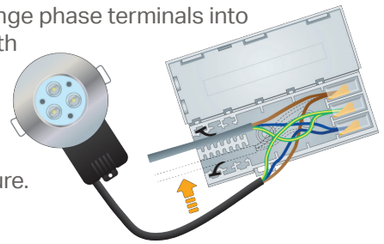

**a. Tight Position** for small diameter cables such as 1mm² twin and earth and small flex.

**b. Offset Position** for medium size cables such as 2.5mm², 4mm² twin and earth and flex.

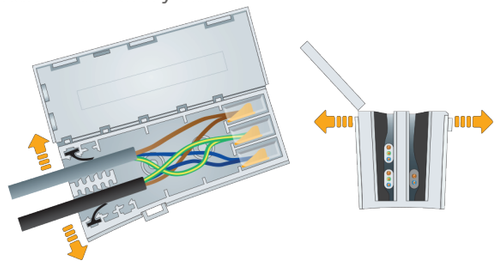
**c. No gripper.** The grippers can be removed to clamp larger cables, such as round flex, that are approximately 8mm in diameter.

5. **Option 1:** Arrange terminals into receptacles.

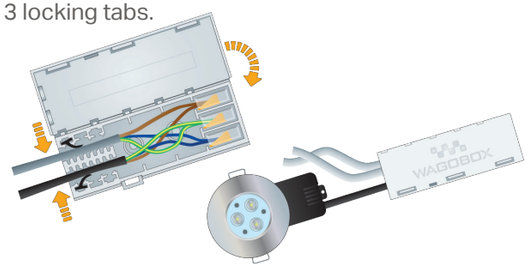
**Option 2:** Arrange phase terminals into receptacles with earth terminal folded back and horizontal above button mounting feature.



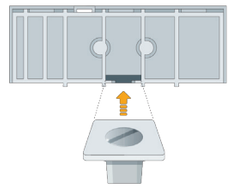
6. **Next, slide the cables into the gripper slots.** The cables should be arranged such that there are cables in both slots and not just one slot. This helps to evenly distribute pressure along the cable clamp. The tops of the cable clamp are chamfered to help get the cables into the slots, although it may be necessary to ease the sides of the clamp apart to make cable entry easier.



7. Try to keep cables of a similar size together in the same slot and simply **push them into the slot as far as they will go.** Once all the cables are installed, firmly squeeze the gripper end of the box together and snap shut the lid so that it is held securely by the 3 locking tabs.




8. If required, the WAGOBOX 221-4 can be fitted to a surface using the WAGOBOX mounting button feature. (sold separately, part No. 51009130 pack of 10)



# Installation Instructions

## For BS 5733-MF

(Maintenance Free Accessory)

In situations where you need to install a WAGOBOX 221-4 in an inaccessible location, the following instructions must be followed. This ensures the completed accessory complies with the requirements of BS 5733 for a maintenance free accessory. Only WAGO 221-412, 221-413 and 221-415 connectors are permitted for use with a WAGOBOX 221-4 in maintenance free locations.

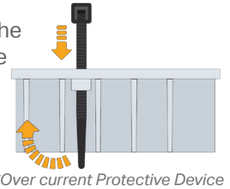
1. Please note the terminal ratings in the table below are different to those published by WAGO. These terminal ratings must be used when selecting the appropriate terminals to assemble a BS 5733 maintenance free accessory.

| Connectors | Max Current Rating | Max Cable mm² | Max Aggregate Current (max $I_{ag}$) |
|---|---|---|---|
| 221-4xx | 20A | 2.5 | 50A |

The Max Aggregate Current ($I_{ag}$) is the sum of all the possible currents through the WAGOBOX 221-4 in normal use. This limit must not be exceeded. Usually the max lag equals the number of phase terminals in the WAGOBOX 221-4 multiplied by the rating of the OPD* for the circuit. There are some exceptions to this rule, so if you are in anyway unsure how to calculate the maximum aggregate current please consult a qualified electrician. For further information on calculating the Max lag of a WAGOBOX 221-4 configuration please visit: www.connexbox.com

2. Follow WAGOBOX 221-4 BS EN 60670-22 installation instructions ensuring all phase terminals are installed into the receptacles of the WAGOBOX 221-4xx.

3. Secure the WAGOBOX lid using the tie-wrap locking point. Ensure the completed WAGOBOX is not covered by insulating material.



*Over current Protective Device