WAGOBOX XLA

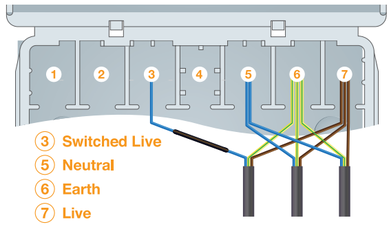
Part No. 60358440

Installation Instructions

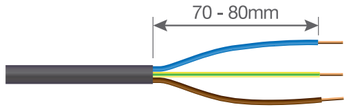
For BS EN 60670-22 Accessory
(see overleaf for Maintenance Free installation.)

The WAGOBOX XLA is simple to install just follow these steps:

1. Decide on the arrangement of connectors for the circuit to be installed using either the left or right side of the WAGOBOX XLA. In this example the right side is being used to connect a switch to a lighting circuit.

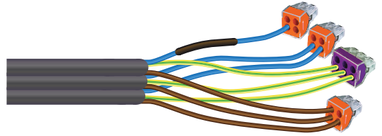


2. Prepare the cables by **stripping back 70 - 80mm of the outer sheath.**

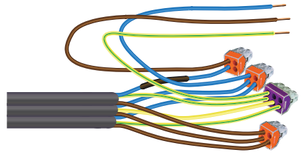


3. Select the appropriate connectors for the circuit.

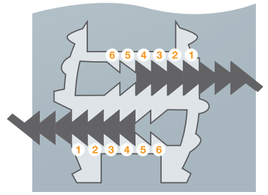
4. Connect up the circuit:



5. If there are cross connections between the two sides of the WAGOBOX XLA these connections should be made before the connectors are slid into place. These consist of single core wires cut to length.



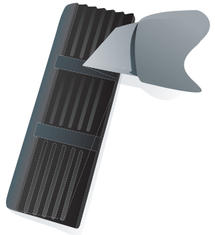
6. Next set up the cable grippers to suit the cable diameter. The grippers are designed to work with cable diameters between 3mm and 15.5mm. There are 6 gripper positions available, with each position altering the clamp diameter by +/- 2.5mm.



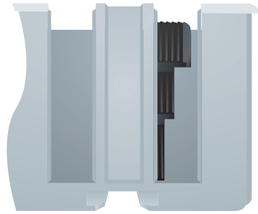
Typical gripper selections:

Position	Cable Diameter
1	3mm
2	5.5mm
3	8mm
4	10.5mm
5	13mm
6	15.5mm

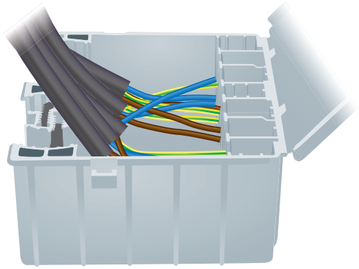
7. Note: It is possible to install cables of different sizes into the same gripper. Cut the gripper along the flat section into two or three parts depending on the different sizes being fitted. We suggest keeping similar cable sizes together in the same slot.



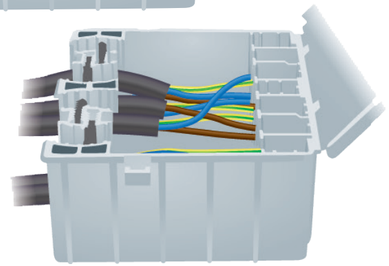
8. Install the largest cable at the bottom of the gripper slot first. Then the next size on top and the smallest last. Fit the gripper first, then each section of cable in turn to prevent the cables moving up the gripper slot.



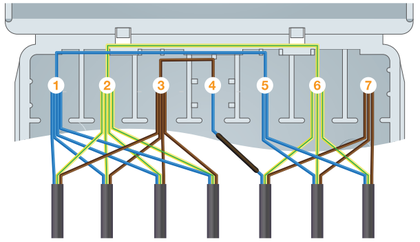
9. Where cables are the same diameter, put the grippers into place first, then put the connectors in position leaving the cables projecting out of the enclosure.



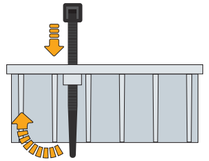
10. Then simply slide the cables down into the gripper slots.



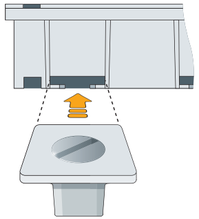
11. Repeat installation process for left hand side of the WAGOBOX XLA. The example below illustrates how the WAGOBOX XLA can be used to connect a switching circuit (right side) to four light fittings (left side).



12. Once cable installation is complete, the WAGOBOX XLA lid can be closed and secured using the cable-tie locking points.



13. If required the WAGOBOX XLA can be fixed to a surface using the fixing button feature. Simply fix the button in the required position and slide the WAGOBOX XLA into place using one or both of the fixing slots in the base.



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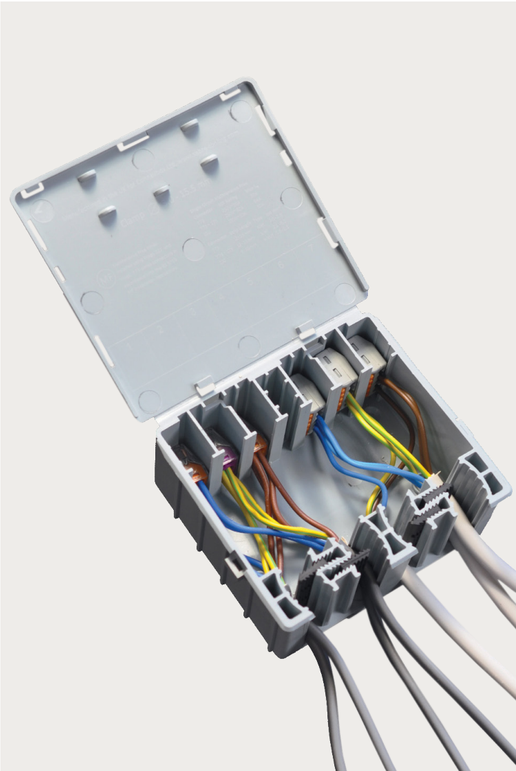
WAGOBOX XLA

A Junction Box Innovation



WAGOBOX XLA

Connectors

The WAGOBOX XLA general purpose electrical enclosure is designed to be used with the WAGO 222 and 773 series connectors.

Overview

The WAGOBOX XLA is rated up to 450V and can support conductor sizes from 0.08mm² to 6mm².

The maximum permitted number of separately supplied individual circuits is 2.

The maximum number of individual conductor connections is 36, based on the installation of twelve 3-core cables of 1mm².

The maximum number of 6mm² connections is 12, based on installation of six 3-core cables.

The cable clamps can grip up to 12 cables with an overall diameter between 3mm and 15mm.

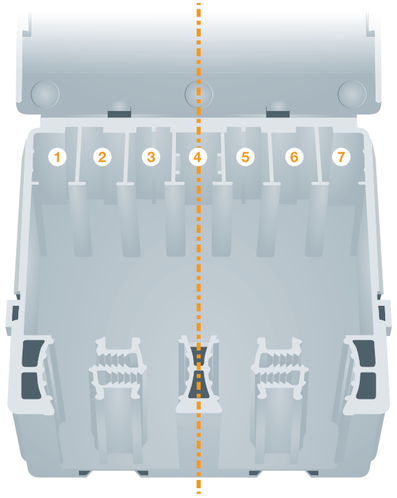
Familiarisation

1. **The internal layout of the WAGOBOX XLA** can be considered as two halves, a left and right side with a smaller central connector receptacle between the two.

2. There are seven connector receptacles inside the WAGOBOX XLA. The centre receptacle (4) provides some extra capacity and can be used with WAGO 221 series connectors.

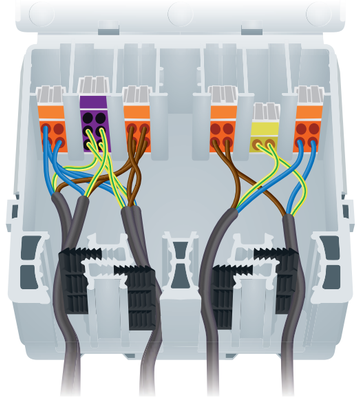
3. Both the left and right side of the WAGOBOX XLA have 3 slots for 222 and 773 series connectors (numbered 1, 2, 3 & 5, 6, 7).

WAGOBOX XLA from CONNEXBOX®
www.connexbox.com

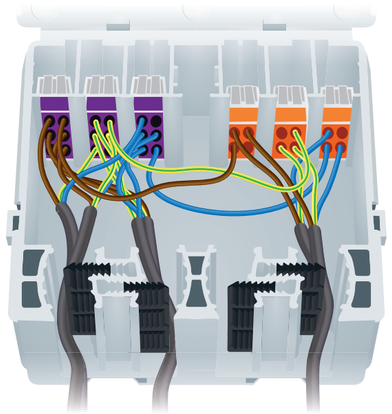


4. The WAGOBOX XLA is designed to support either one or two circuits that can be supplied together or separately. It is important to ensure that this is indicated on the lid using permanent marker or labels.

5. When two separate circuits are being supported no connections between the left and right side are permitted. Each side must be dedicated to one circuit only.

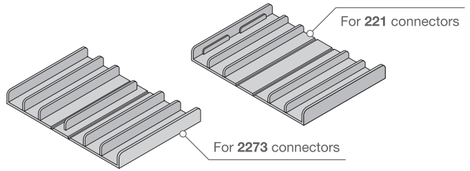


6. When a single circuit is being supported then cross linking between each side of the enclosure is permitted.

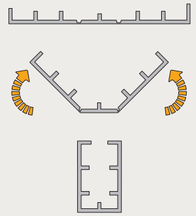


2273 & 221 Series Connector Adapters

The WAGOBOX 2273 and 221 connector adapters should be used when using WAGO 2273 and 221 series connectors with the WAGOBOX XLA to ensure compliance with BS EN 60670-22.

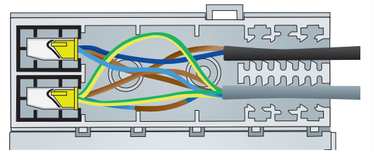


The adapters are intended to be fitted into the connector receptacles inside the WAGOBOX XLA. Each adapter provides a slot designed to hold the appropriate connector type safely and securely preventing excessive movement and inadvertent extraction of the connector or connected wire.



The adapters are supplied flat. To use, fold into a rectangular shape with the side fins facing inward. Insert into the connector receptacle.

Shown with 2273 adapters and connectors in position.



Maintenance Free

Installation Instructions

Instructions for BS 5733-MF Accessory

In situations where you need to install a WAGOBOX XLA in an inaccessible location then the following instructions must be followed. This will ensure your completed accessory complies with the requirements of BS 5733 for a maintenance free accessory.

1. For maintenance free locations only WAGO 222, 773, 2273 and 221 connectors must be used. Note that 2273 and 221 connectors require the use of adapters.

2. BS 5733 only permits **single circuits** to be terminated into a maintenance free accessory.

3. Apply BS 5733 Rating Requirements. Please note the connector ratings in the table below are different to those published by WAGO. These connector ratings must be used when selecting appropriate connectors to assemble a BS 5733 maintenance free accessory.

Connector Series	Max. Current Rating	Max. Cable csa mm²	Single Side Max. Aggregate Current (I_{ag})
773 2273	20A	2.5	50A
222 221	20A	2.5	50A
773-173	32A	6	64A

The Single Side Max Aggregate current (I_{ag}) is the sum of all the possible currents through either the left or right side of the WAGOBOX XLA in normal use. This limit must not be exceeded. Usually the max lag equals the number of phase terminals multiplied by the rating of the Overcurrent Protective Device for the circuit. There are some exceptions to this rule so if you are in anyway unsure how to calculate the maximum lag please consult a qualified electrician or contact Connexbox Ltd for support.

4. Follow the BS EN 60670-22 installation instructions ensuring all the phase connectors are neatly fitted into the receptacles in the WAGOBOX XLA.

5. Secure the WAGOBOX XLA lid using the tie-wrap locking points.