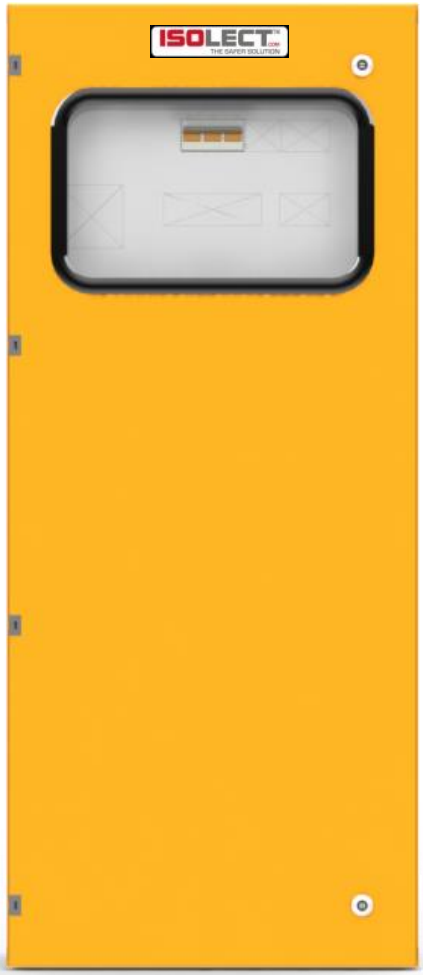
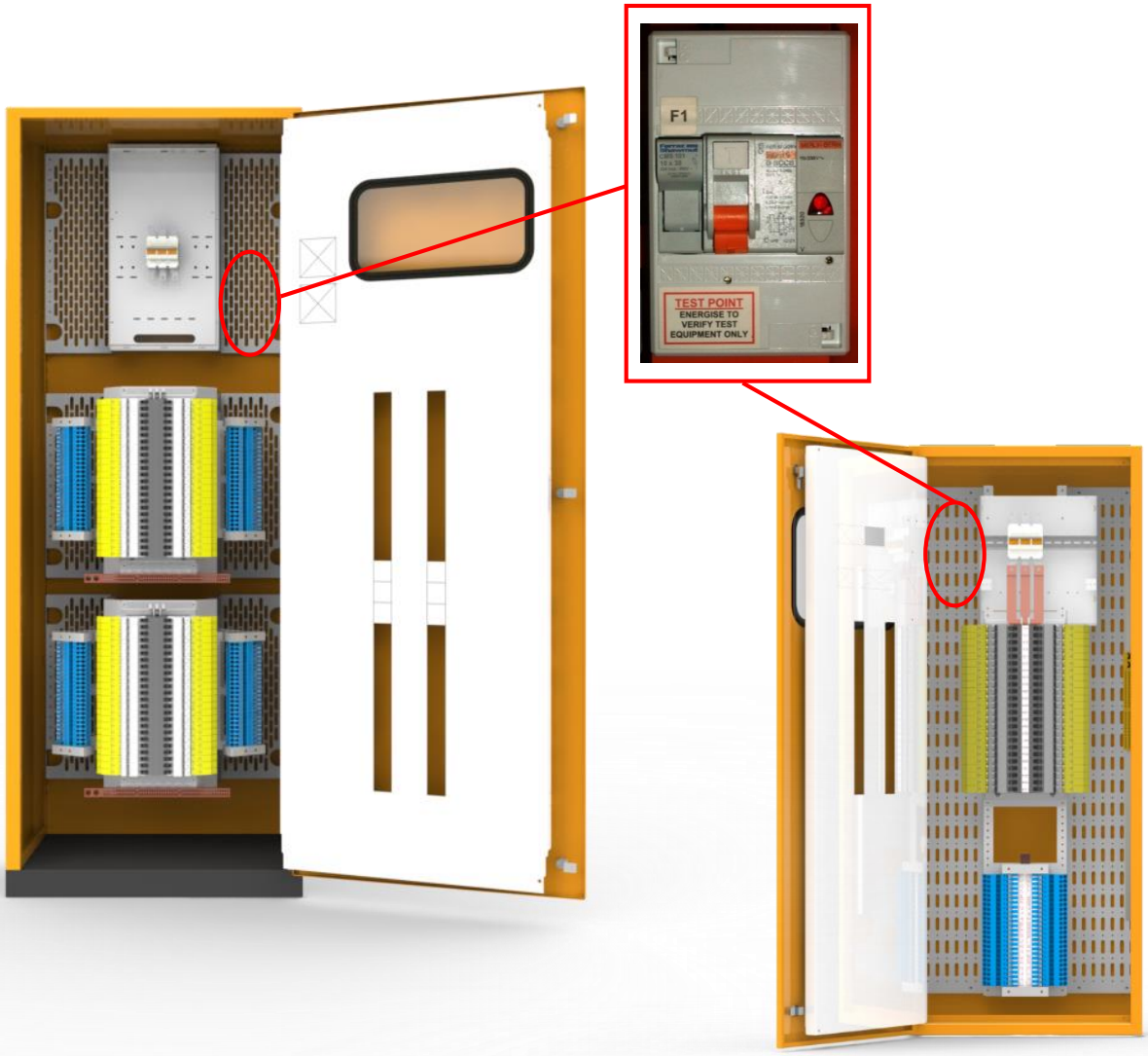

ISOLECT™
.COM
THE SAFER SOLUTION



PLEASE NOTE

For clarity, the following images show only a single circuit breaker on the chassis.

The chassis should always be fully populated with circuit breakers fitted and terminal covers in place!



- An optional Voltage test point can be provided.

Check that your voltage tester is functioning correctly.

STEP 1

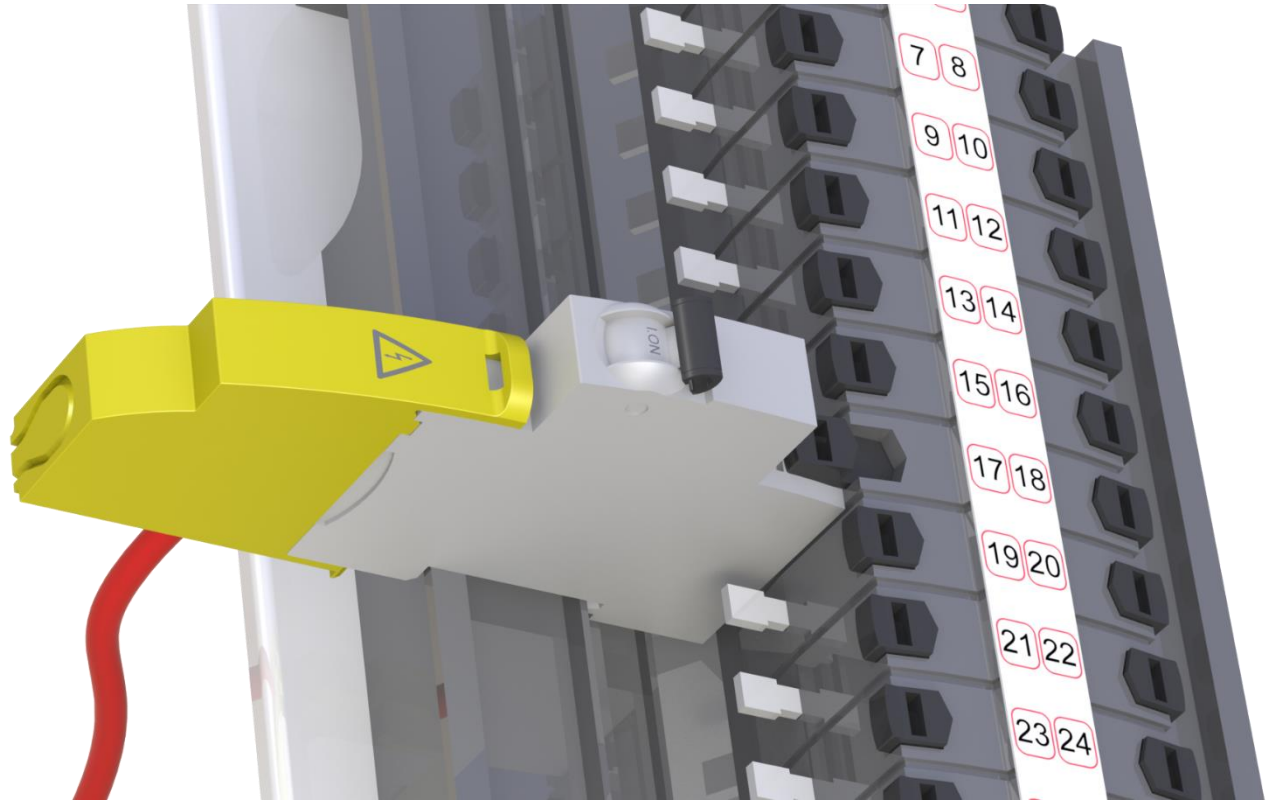
Before you begin, identify the:

ACTIVE

NEUTRAL

EARTH

of the circuit breaker you wish to replace.



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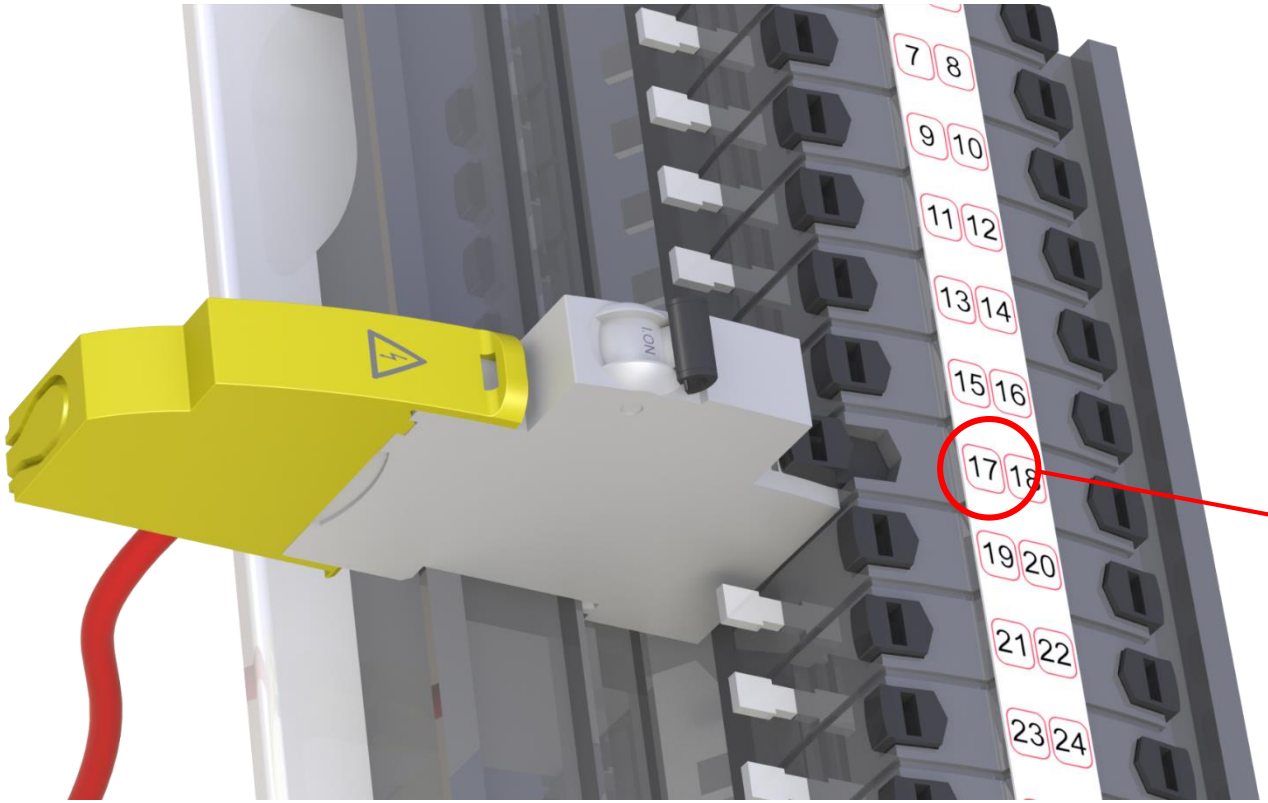

- Before you begin, identify the:

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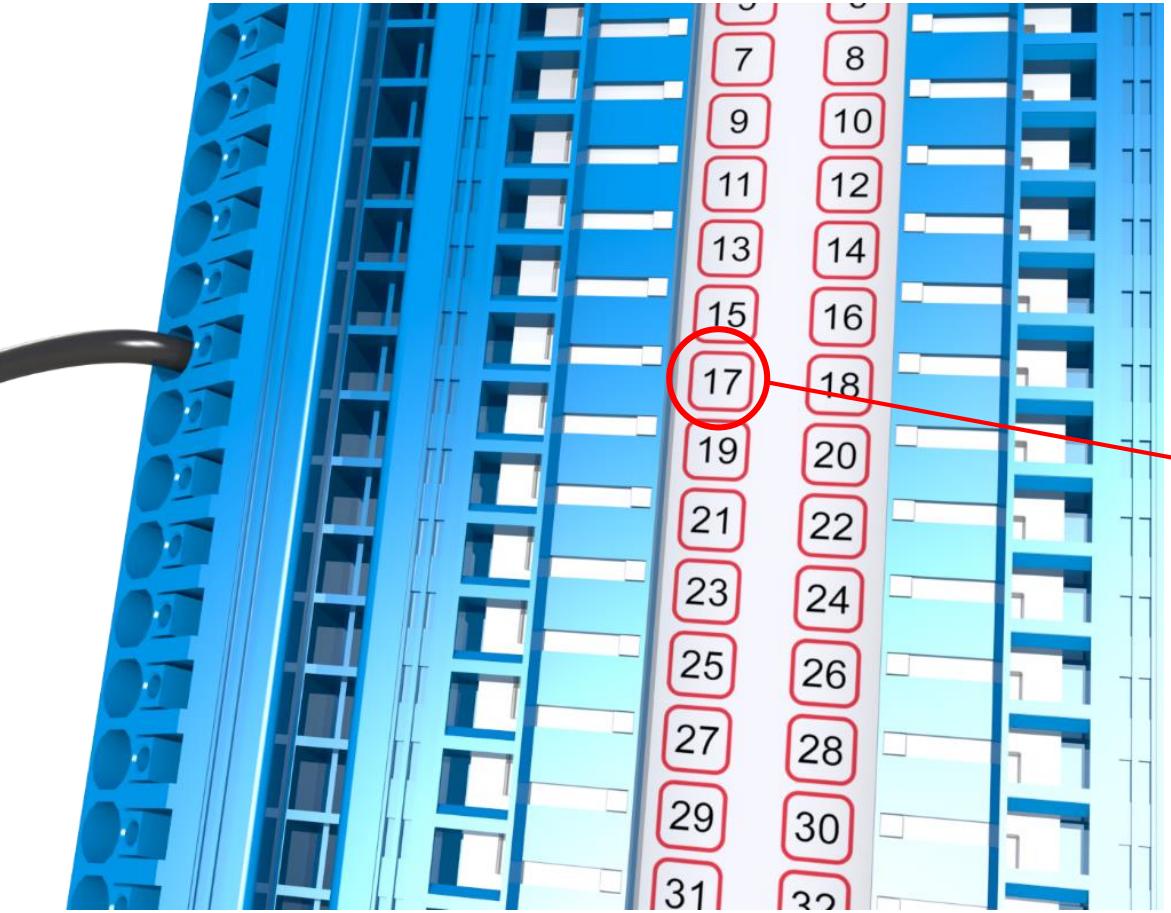
Each circuit is identified by a number.



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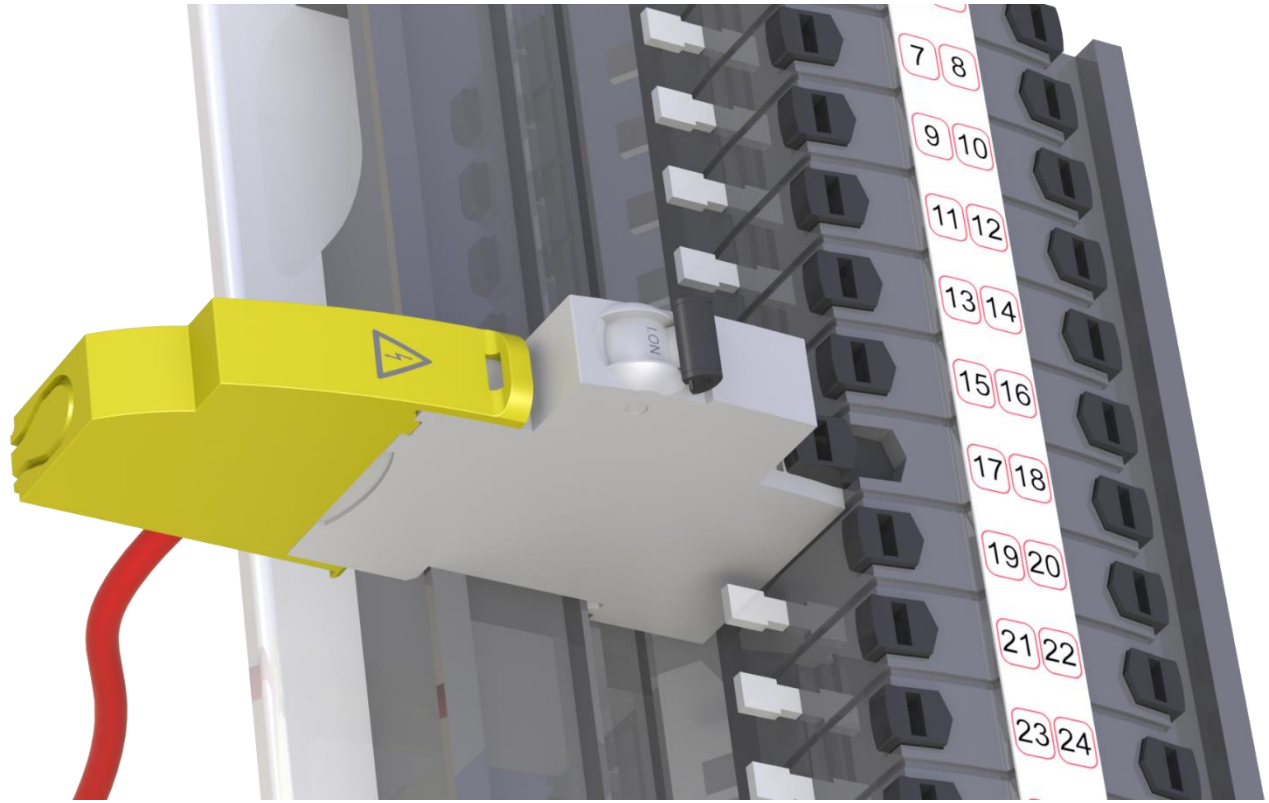
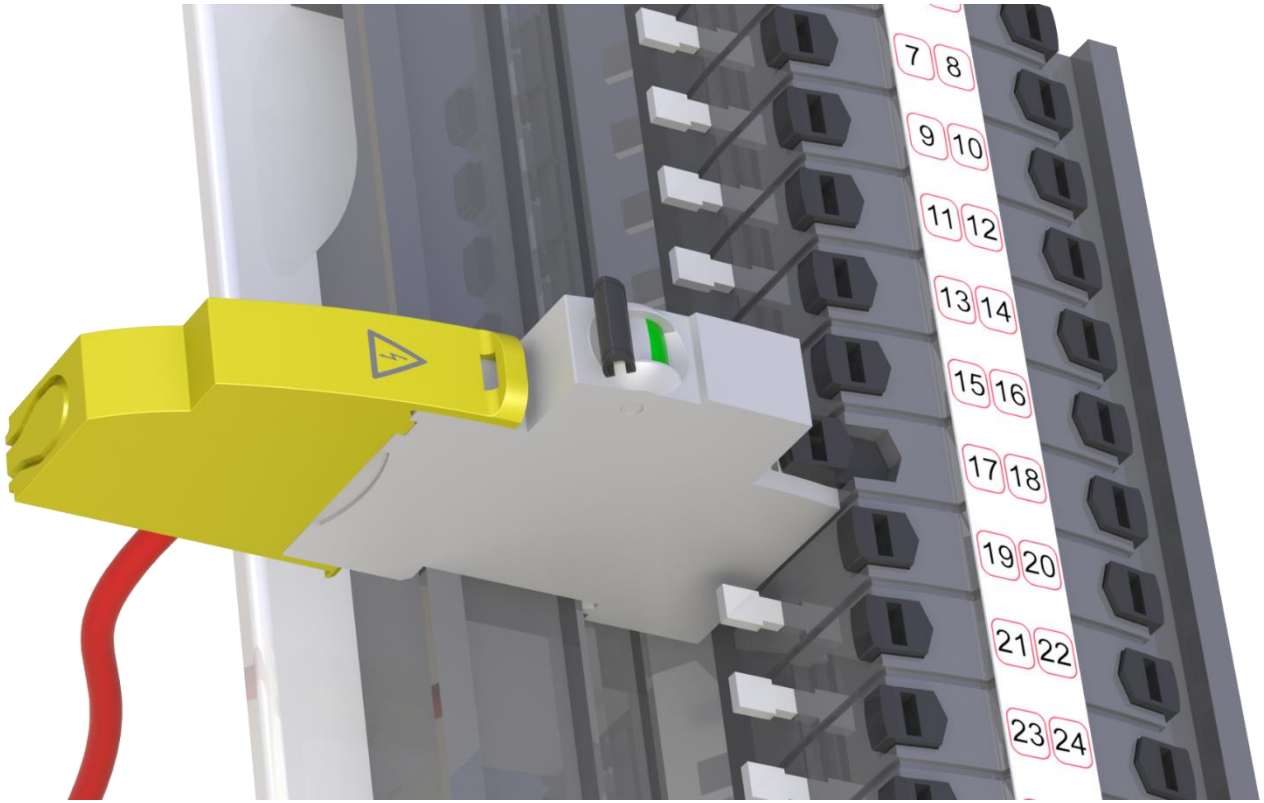
STEP 2

Switch the circuit breaker toggle to the **OFF** position



- Switch the circuit breaker toggle to the **OFF** position



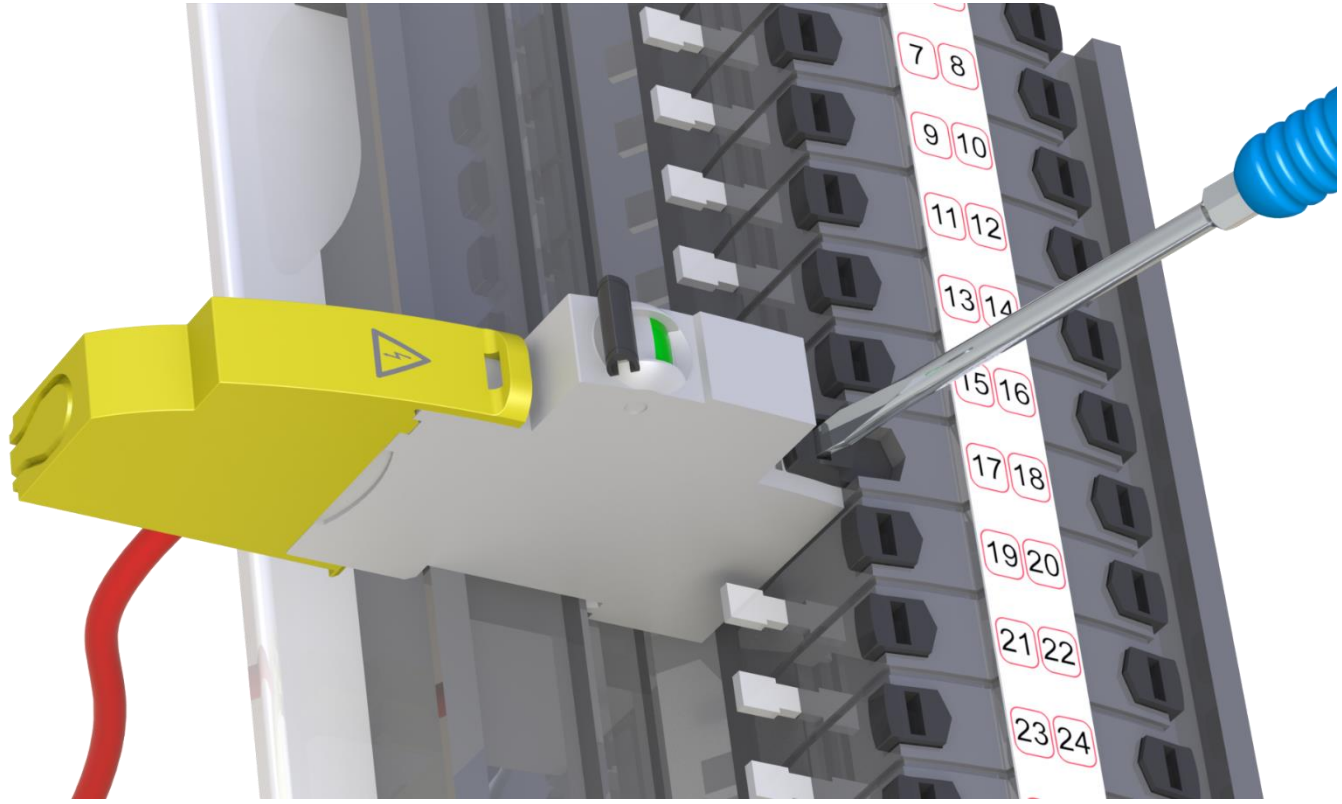
- Switch the circuit breaker toggle to the **OFF** position

STEP 3

Using the black chassis isolation slide, isolate the circuit breaker pole

WARNING

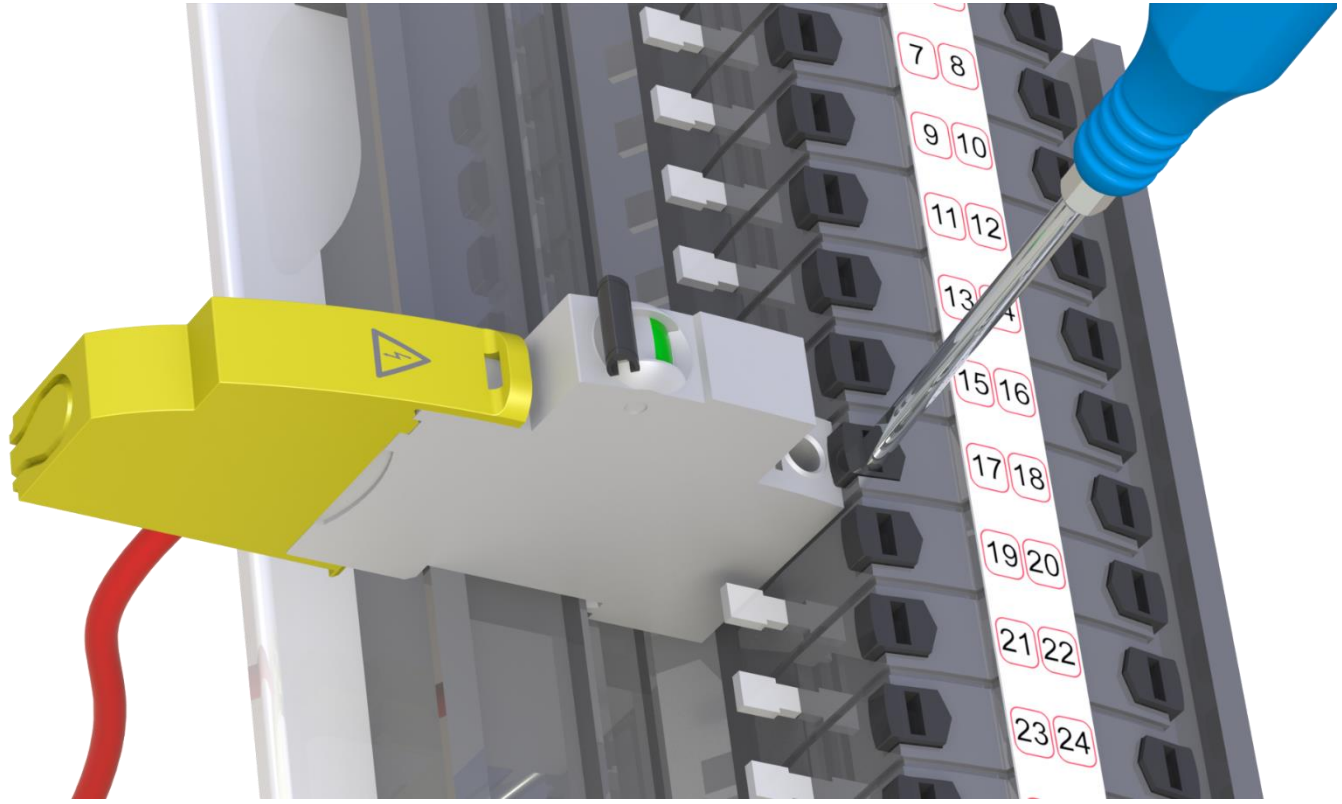
DO NOT OPERATE THE BLACK ISOLATION SLIDE WITH THE CIRCUIT BREAKER ON!



- Using the black chassis isolation slide, isolate the circuit breaker pole

WARNING

DO NOT OPERATE THE BLACK ISOLATION SLIDE WITH THE CIRCUIT BREAKER ON!



- Using the black chassis isolation slide, isolate the circuit breaker pole

WARNING

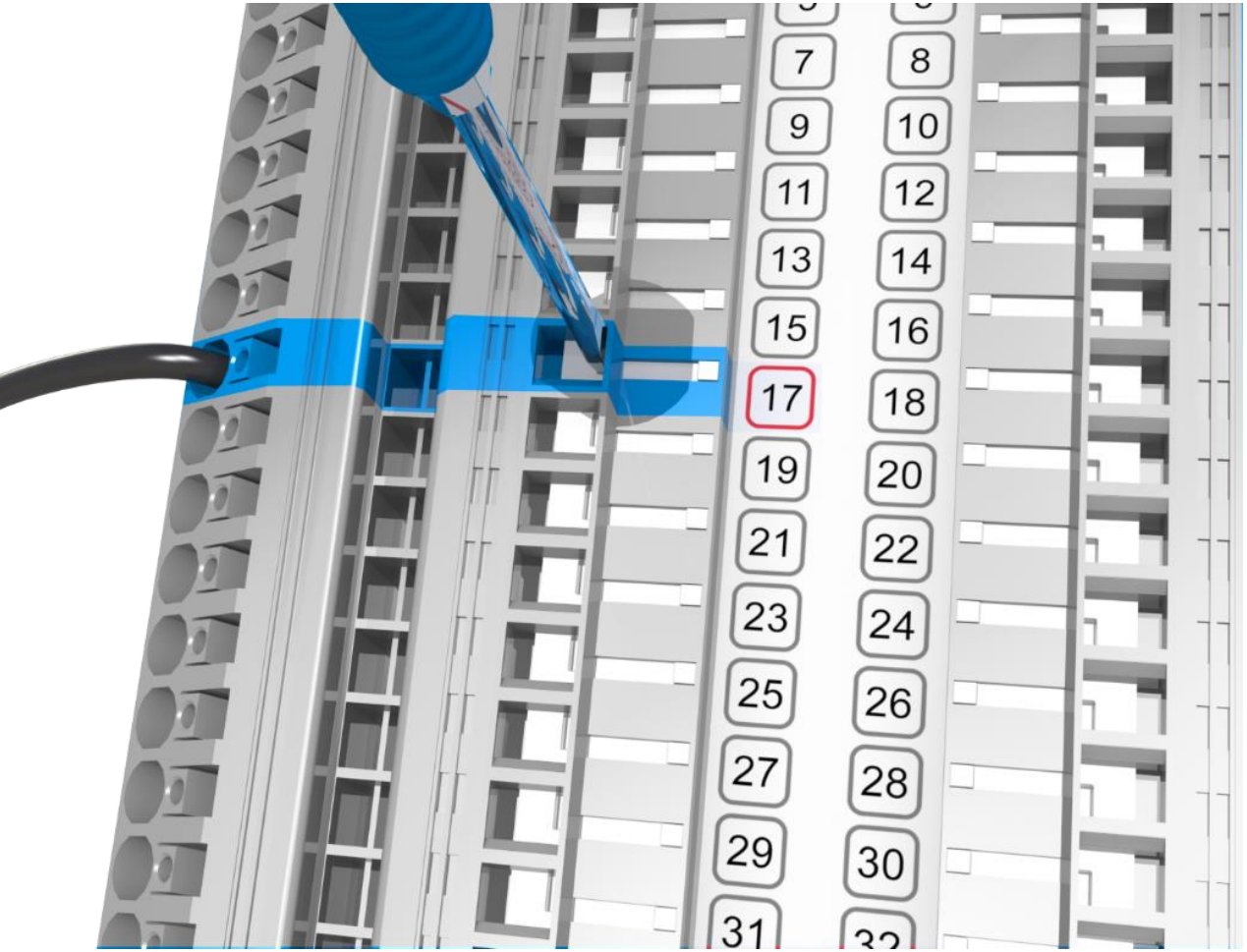
DO NOT OPERATE THE BLACK ISOLATION SLIDE WITH THE CIRCUIT BREAKER ON!

STEP 4

Using the insulated neutral slide, disconnect the **NEUTRAL** terminal from the neutral bar

WARNING

DO NOT OPERATE THE NEUTRAL SLIDE IF THE CIRCUIT BREAKER IS ON OR THE CHASSIS SLIDES ARE ENERGISED!



- Using the insulated neutral slide, disconnect the **NEUTRAL** terminal from the neutral bar

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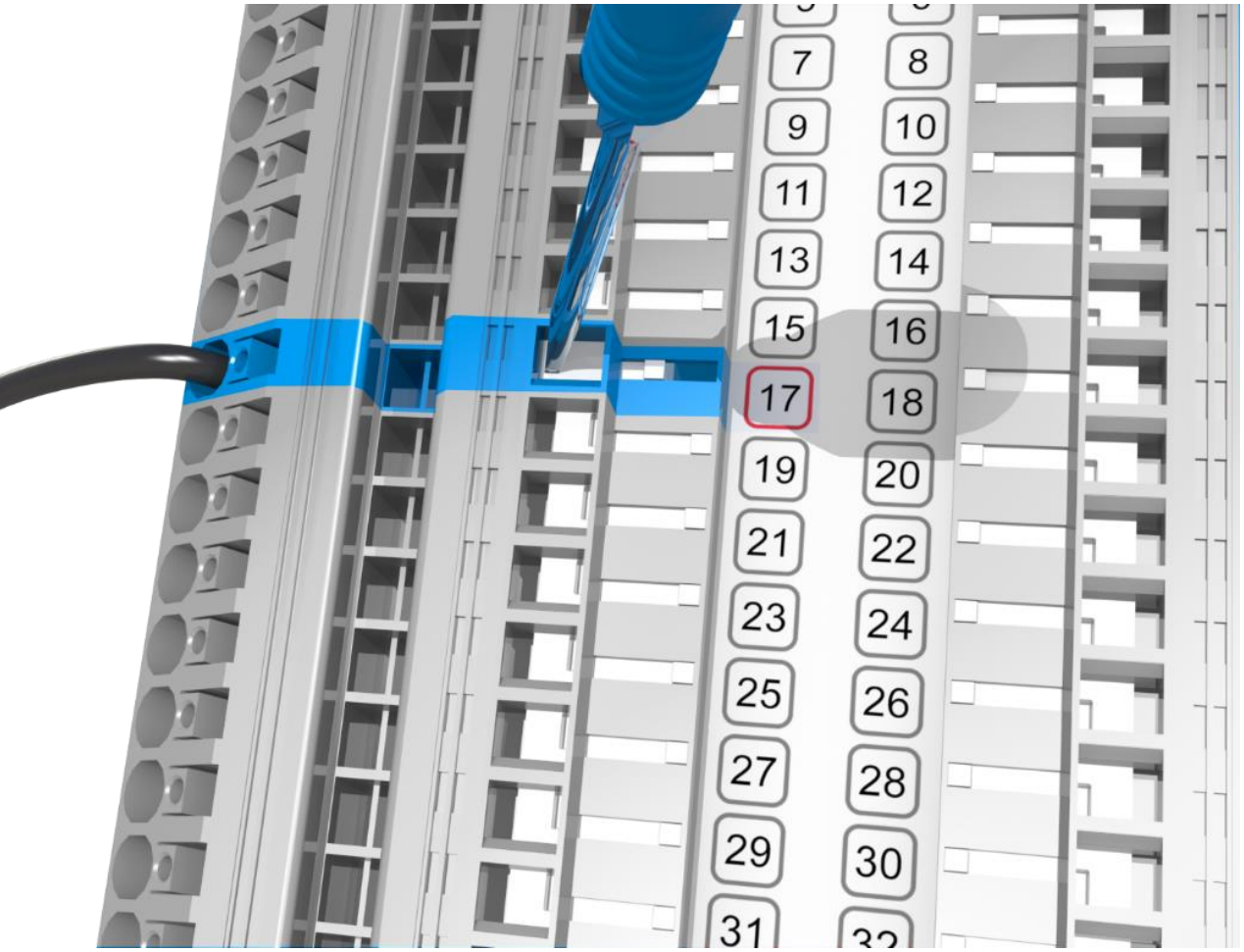

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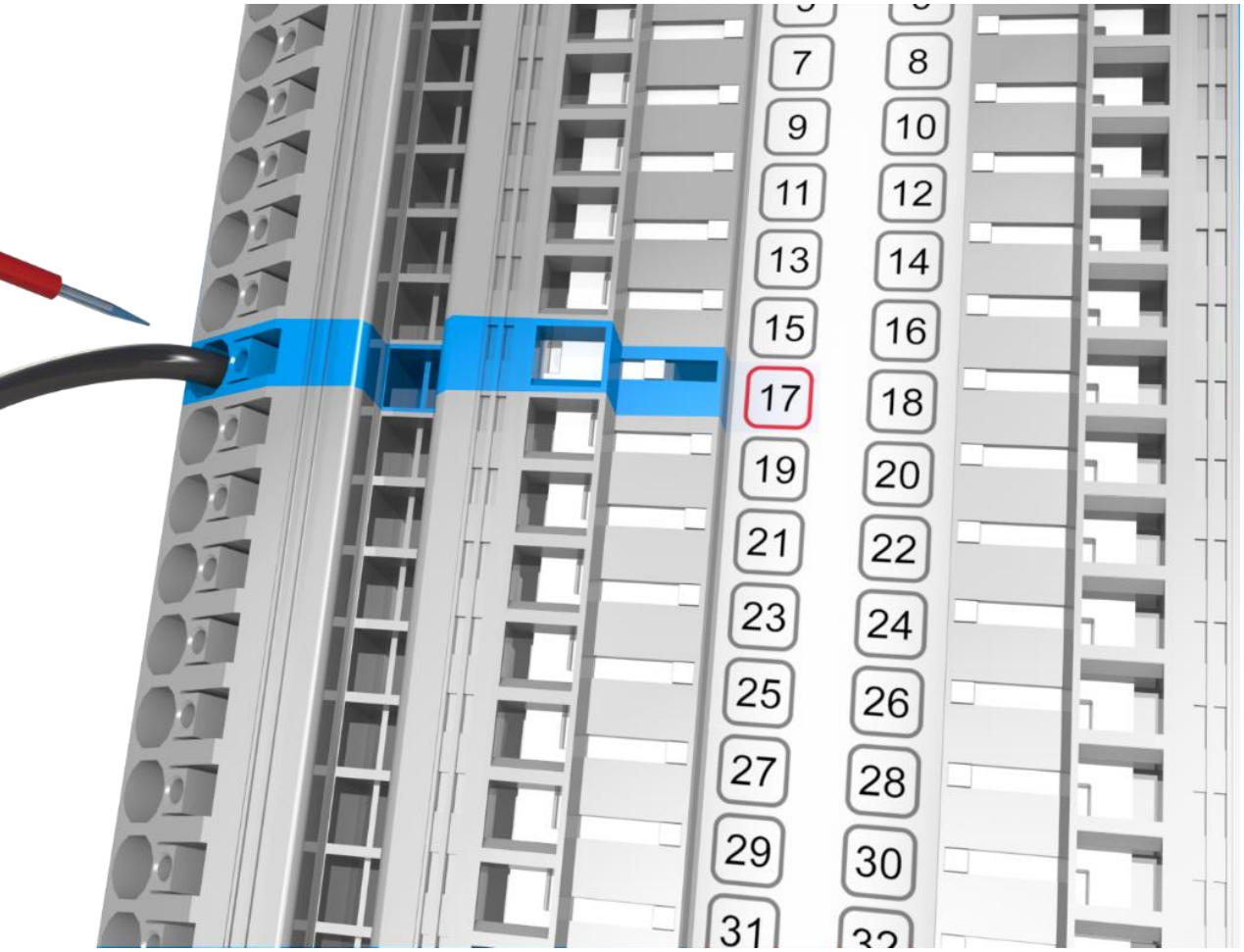
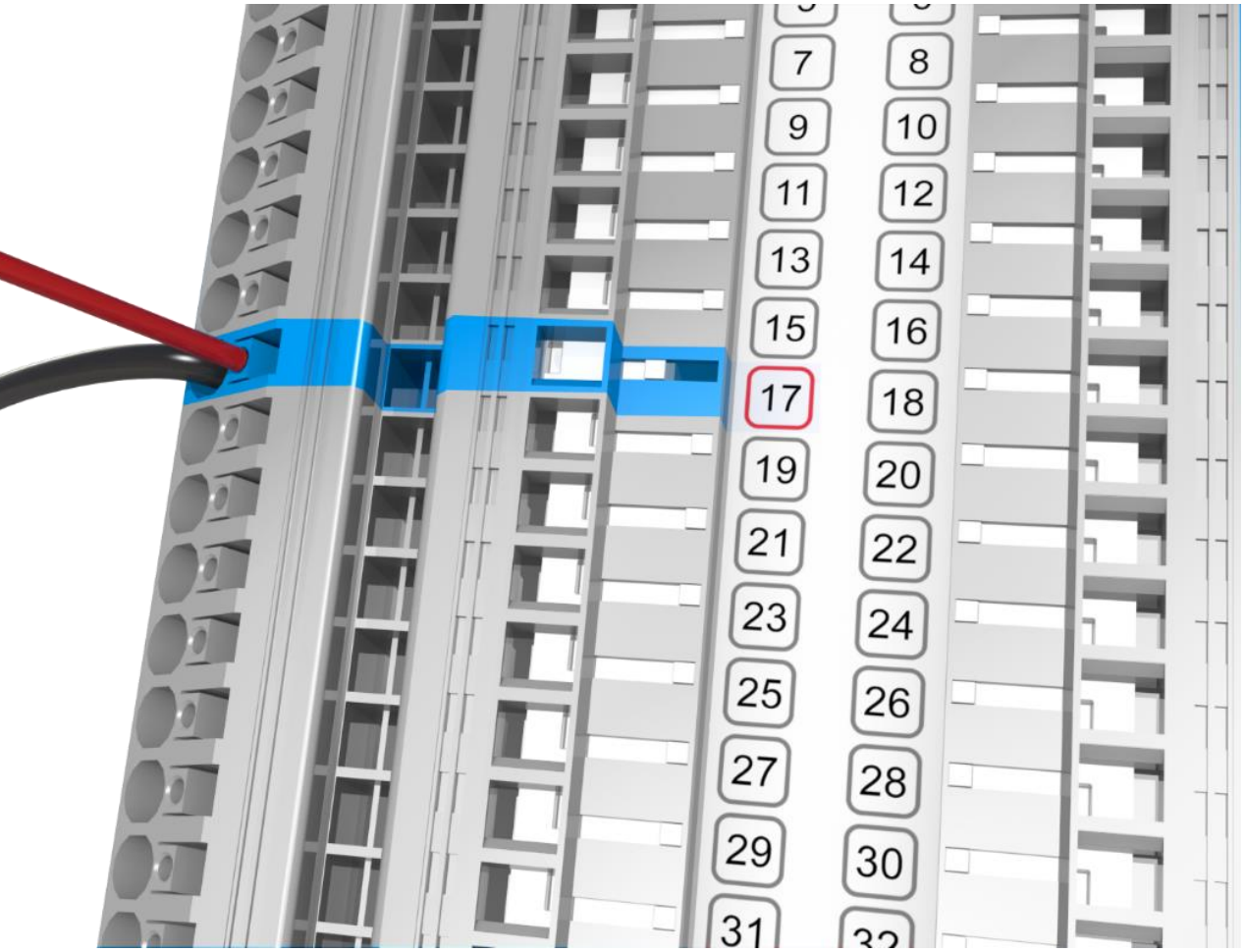


- Use the Voltage tester to test from the neutral cable termination to earth.

  This will verify the neutral is no longer live.

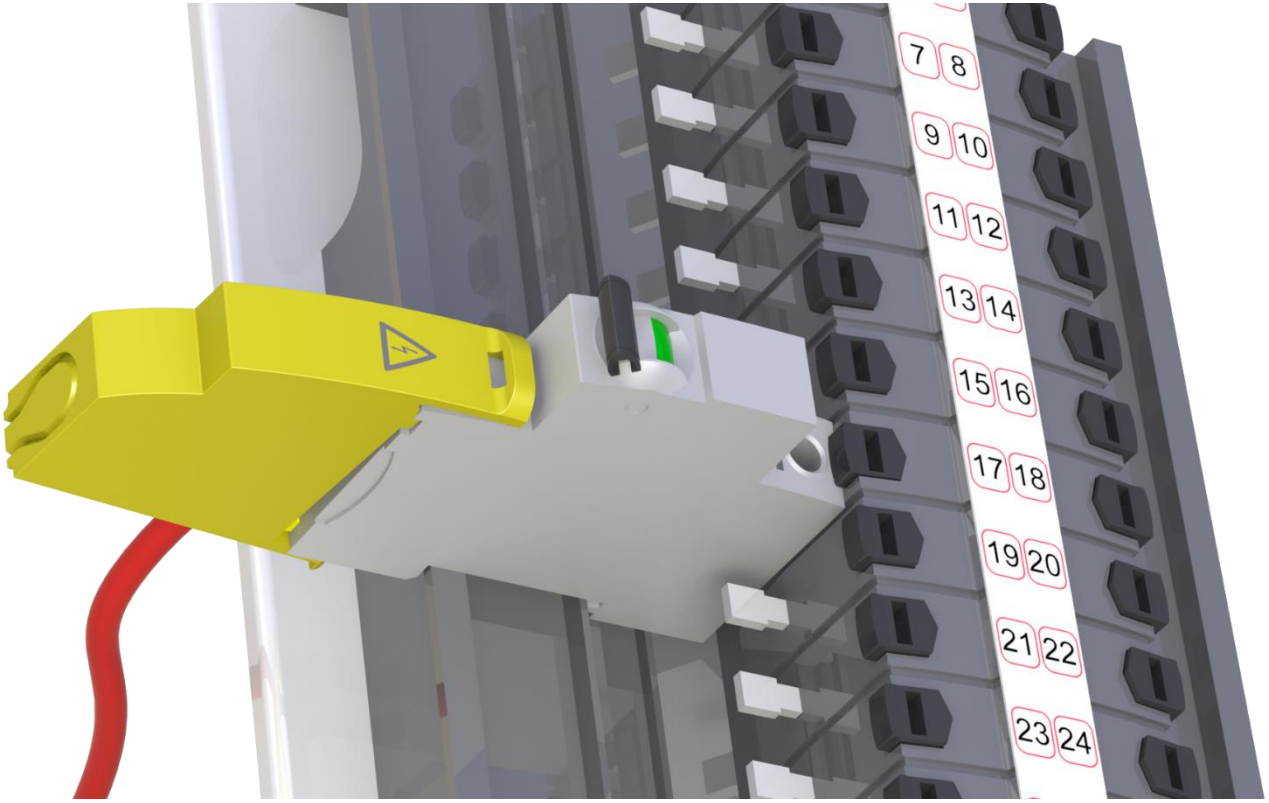


- Use the Voltage tester to test from the neutral cable termination to earth.

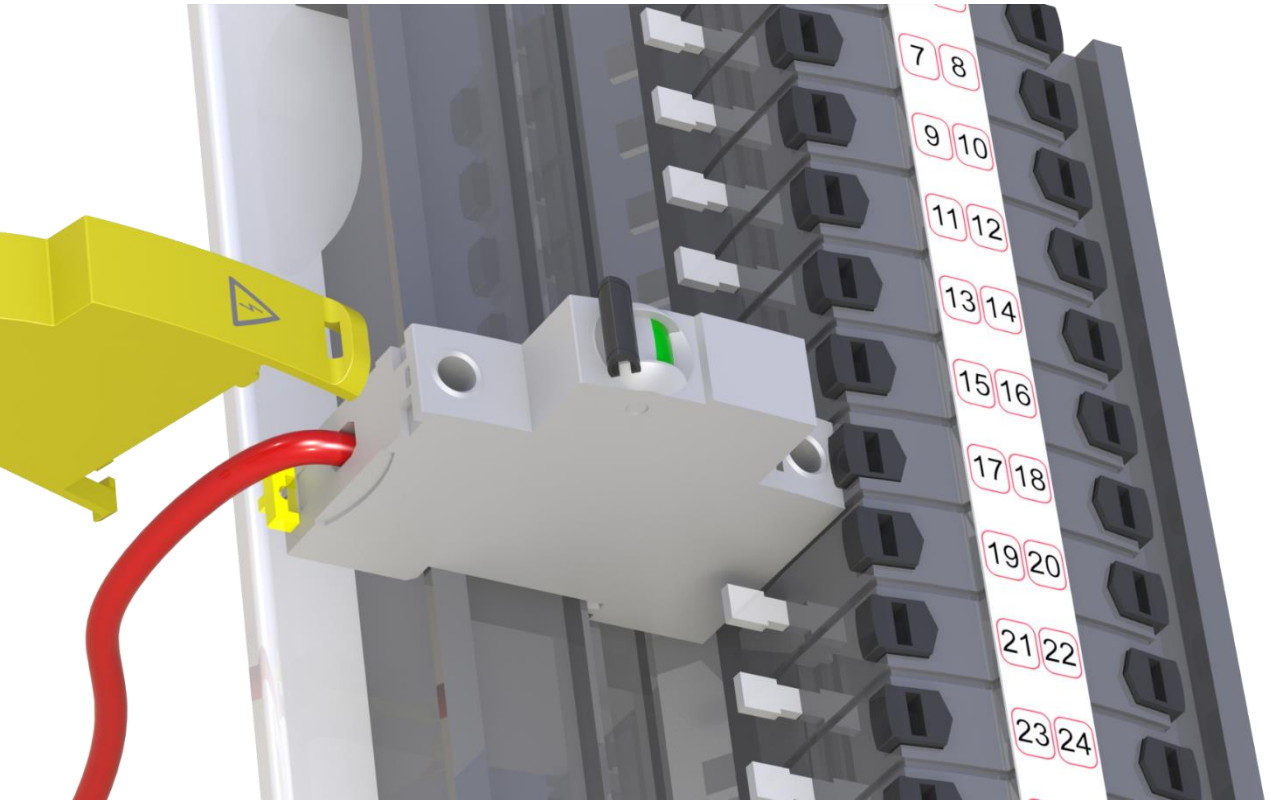
  This will verify the neutral is no longer live.

STEP 5

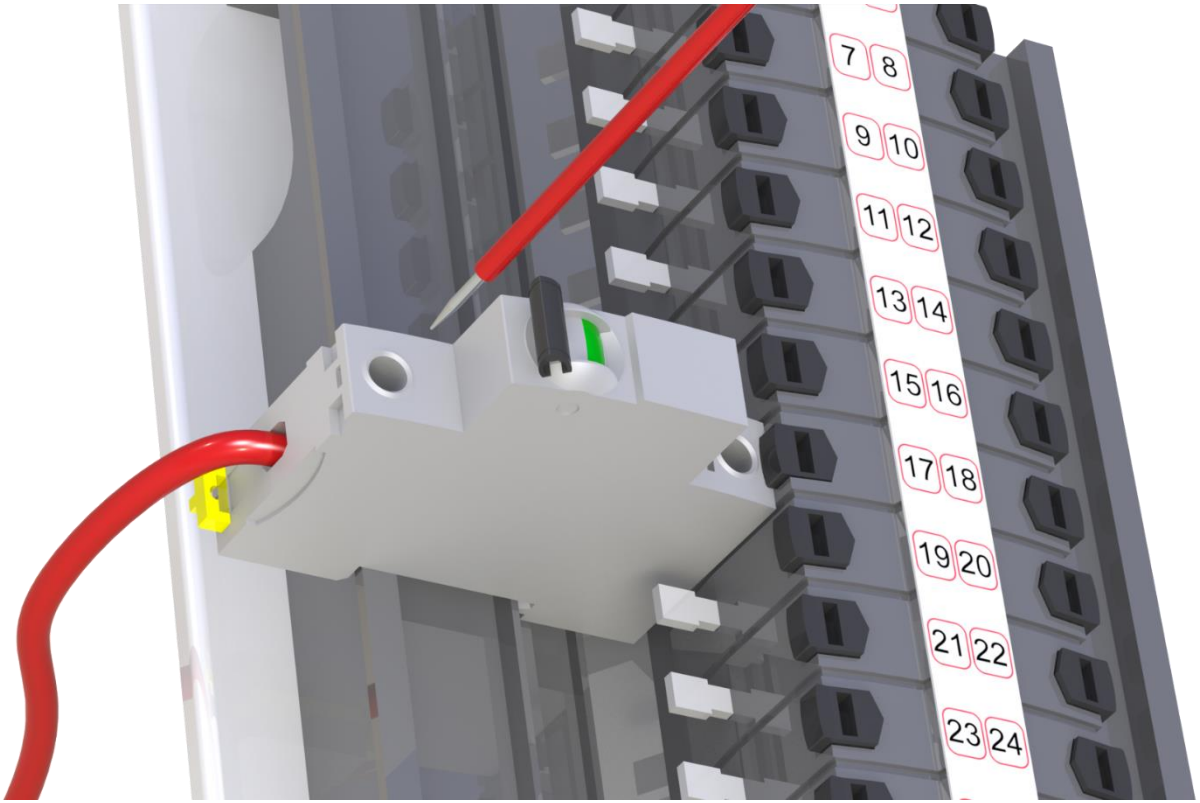
Remove the circuit breaker terminal cover



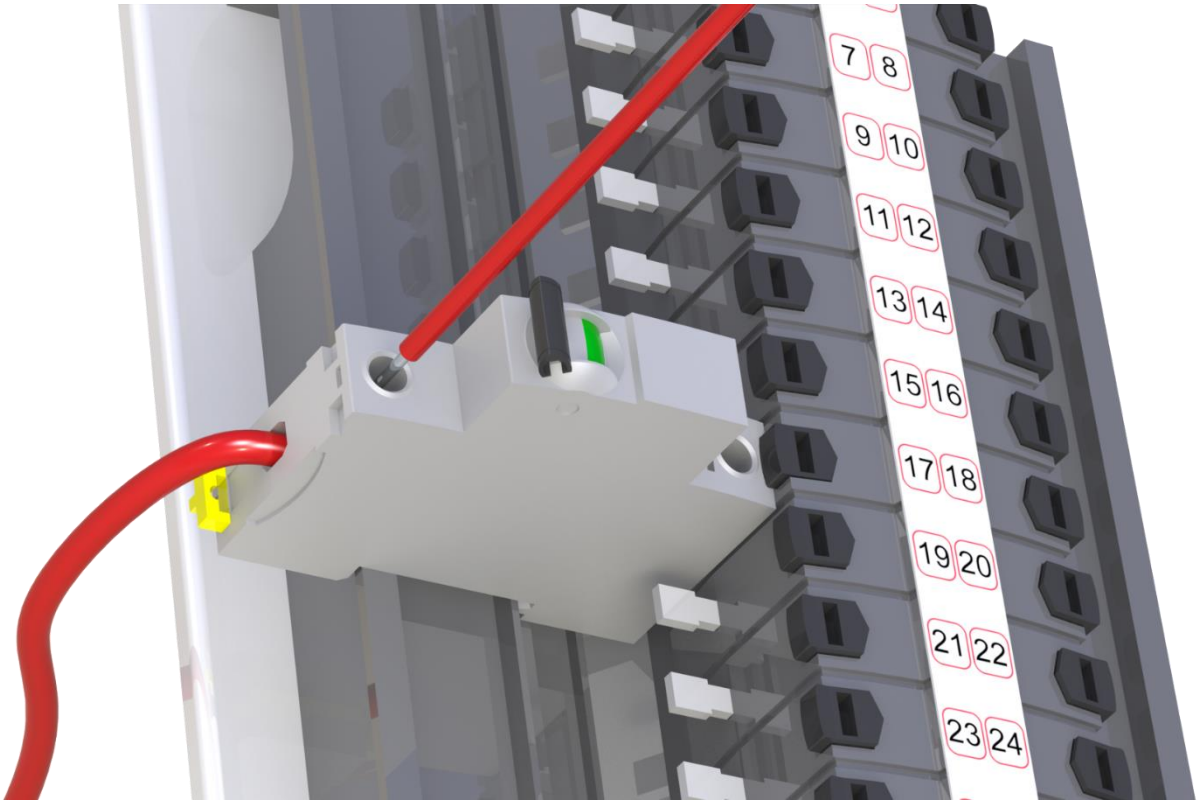
- Remove the circuit breaker terminal cover



- Remove the circuit breaker terminal cover



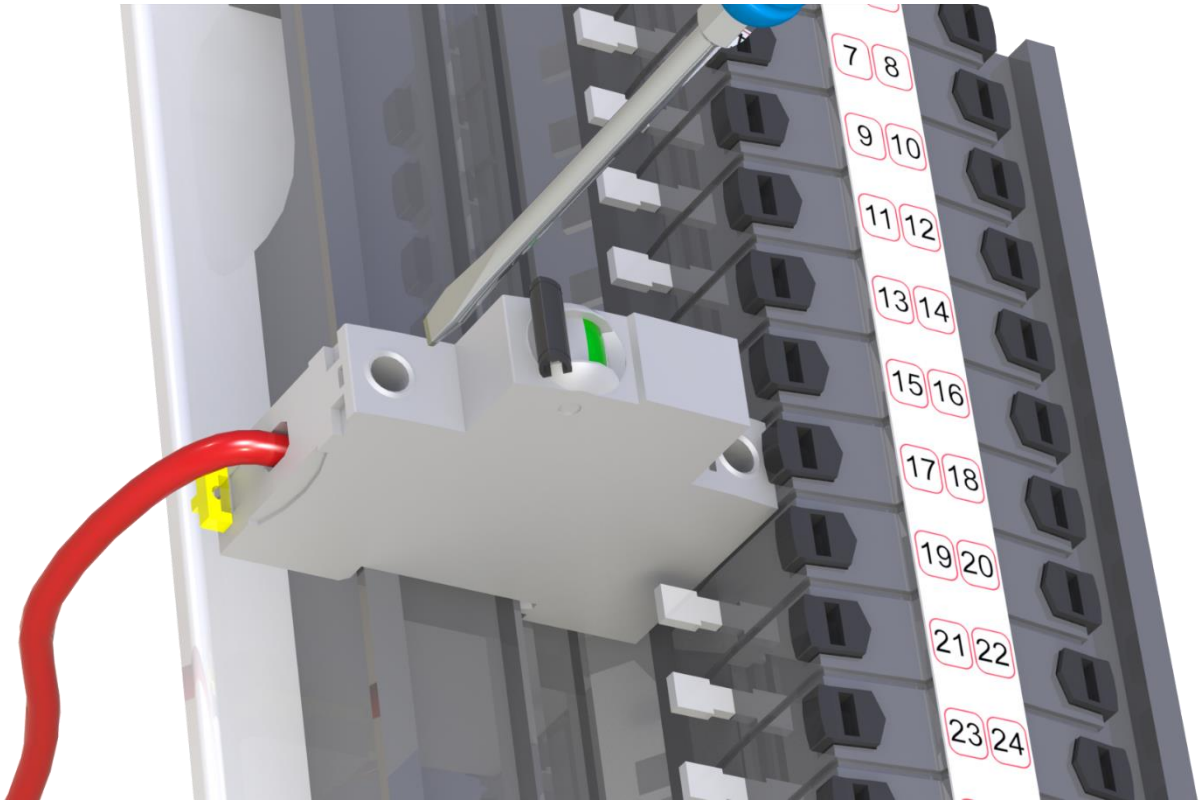
- Test the terminal to ensure there is no voltage present.



- Test the terminal to ensure there is no voltage present.

STEP 6

Remove the cable from the circuit breaker and locate safely



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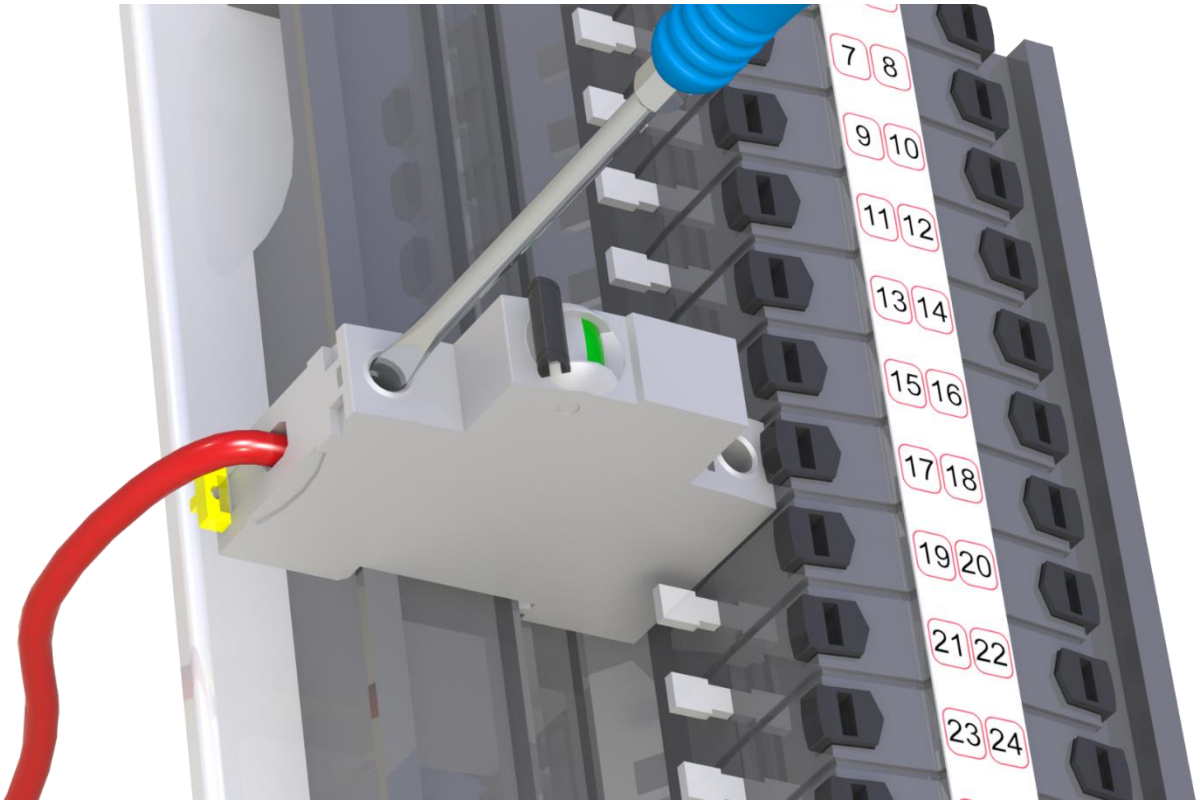
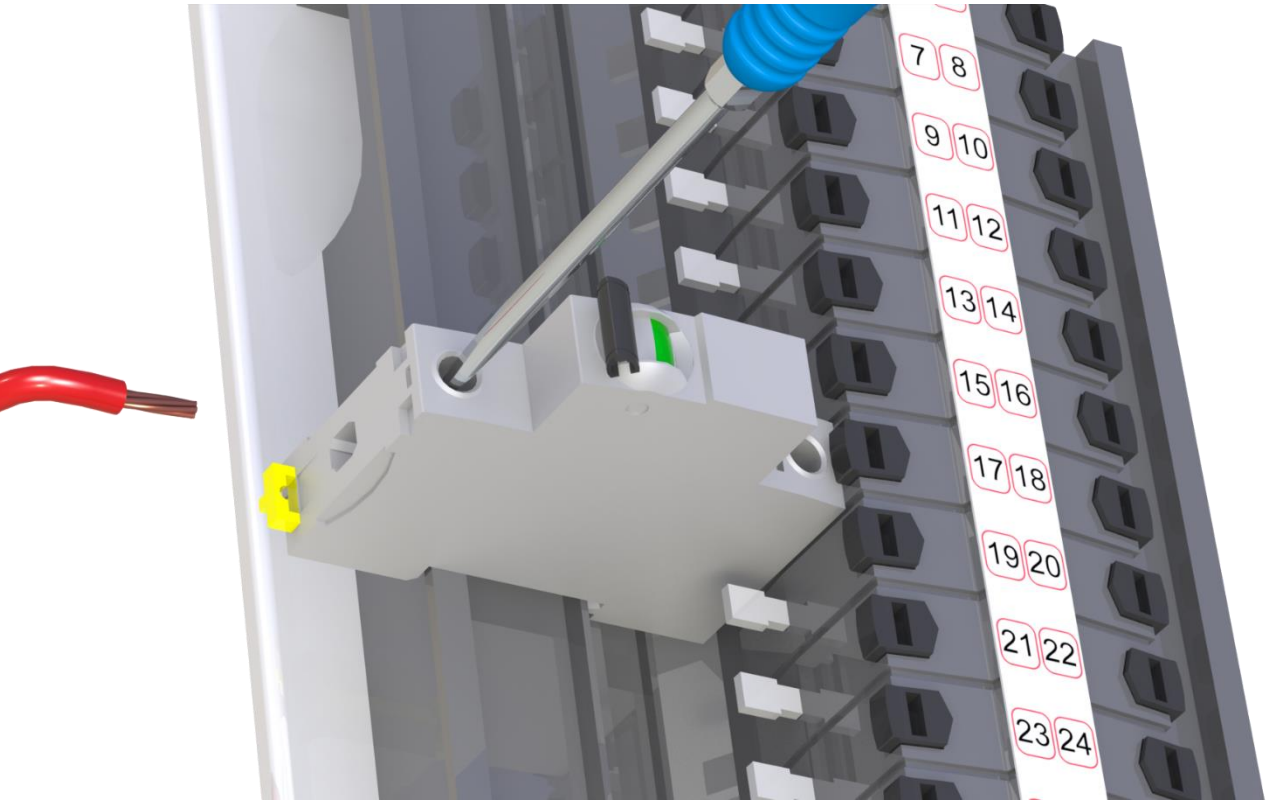


- Remove the cable from the circuit breaker and locate safely



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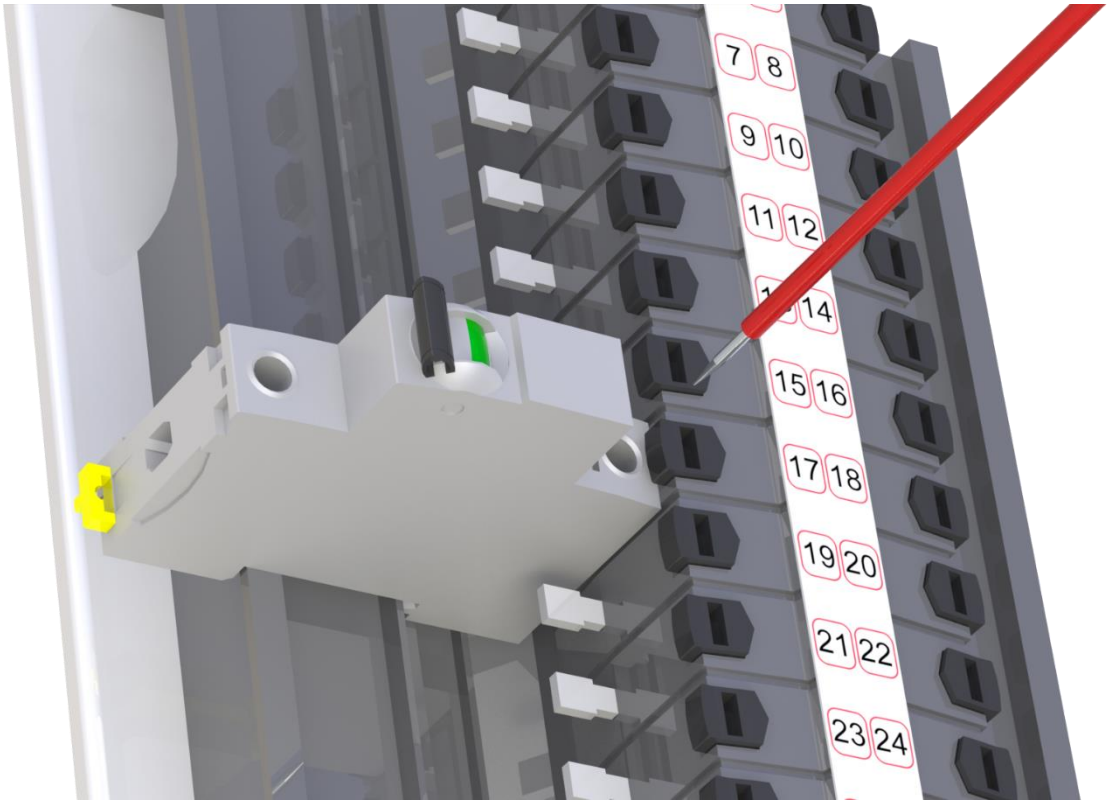
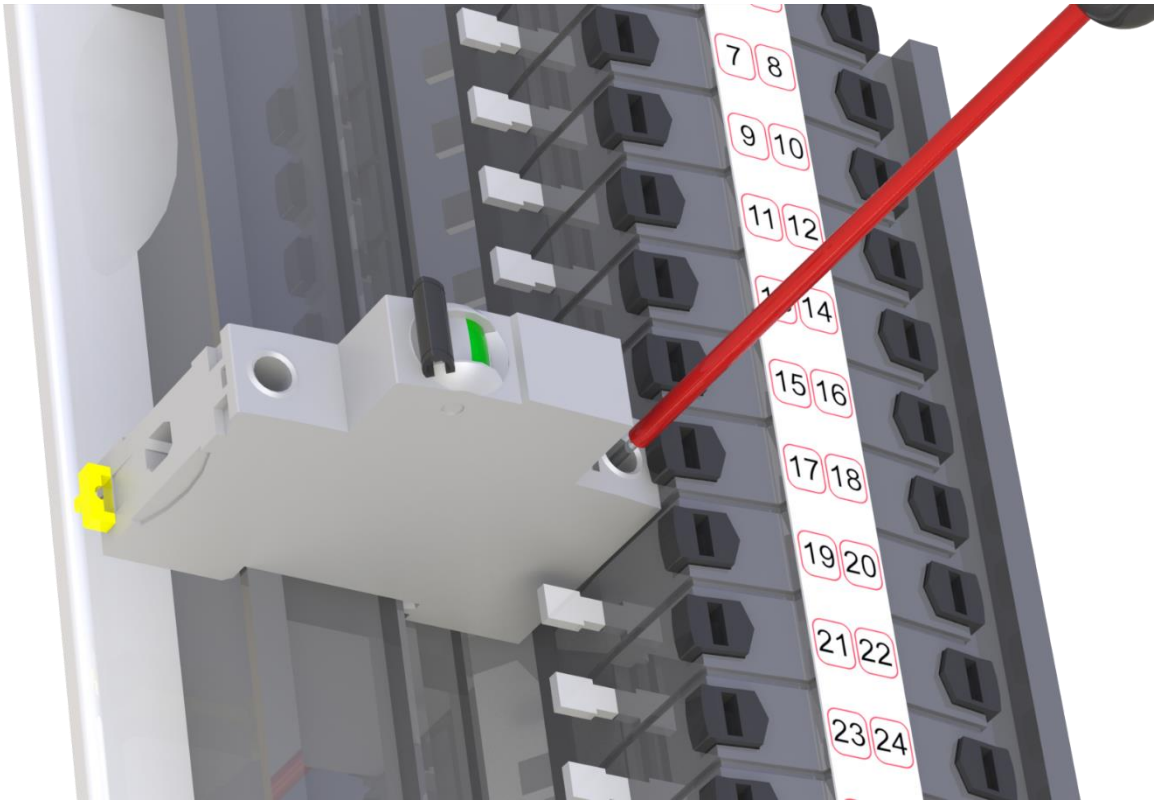


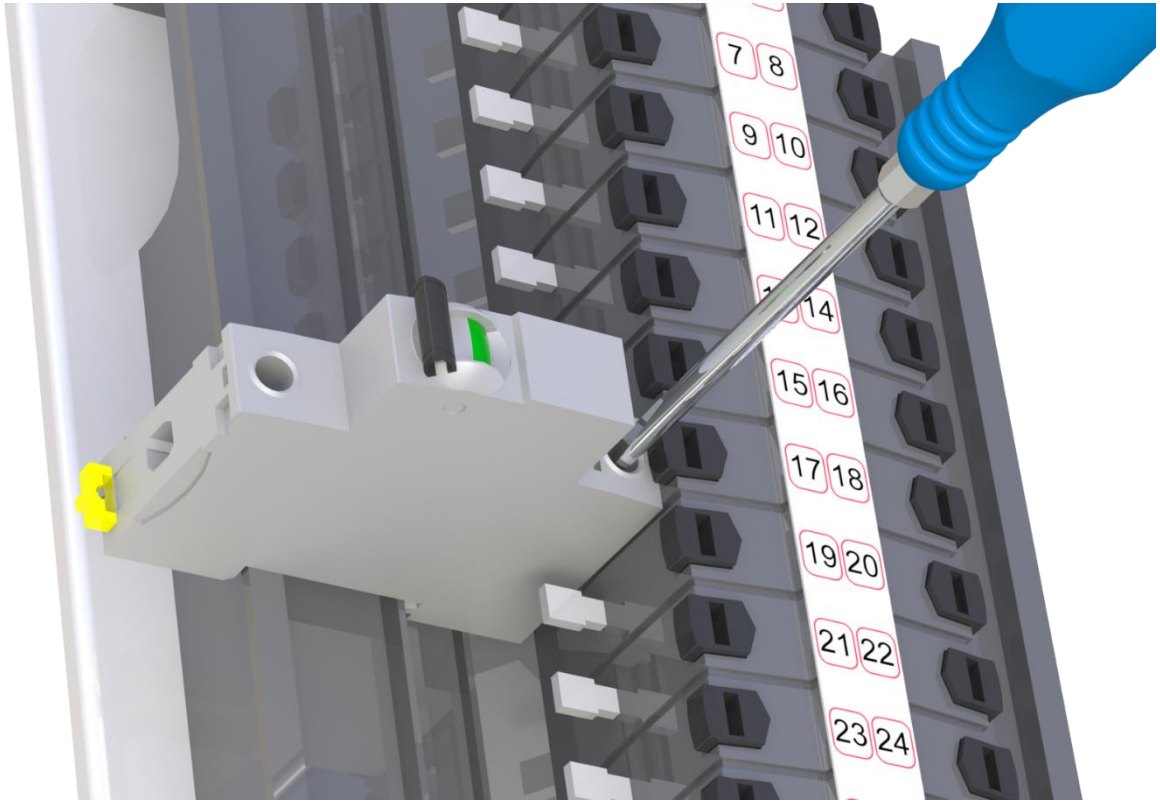
- Test the terminal to ensure there is no voltage present.



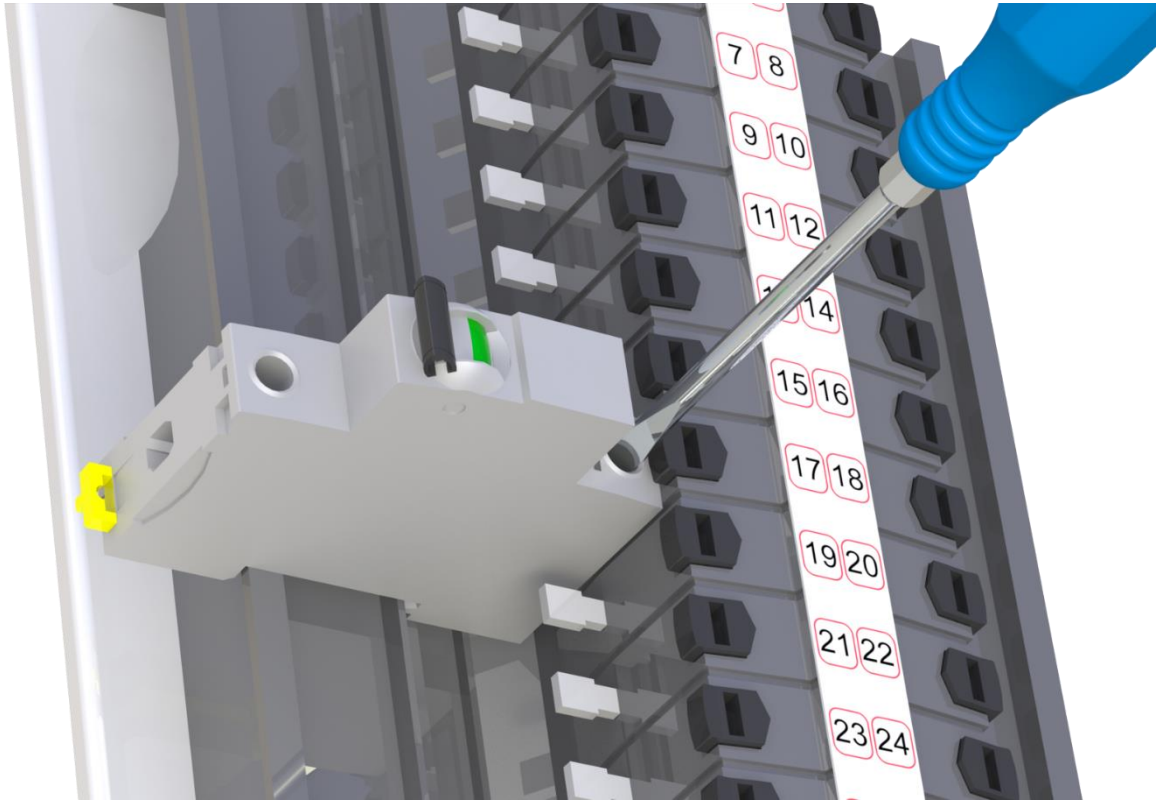
- Test the terminal to ensure there is no voltage present.

STEP 7

Undo the line side termination of the circuit breaker with the correct sized screwdriver and remove



- Undo the line side termination of the circuit breaker with the correct sized screwdriver and remove



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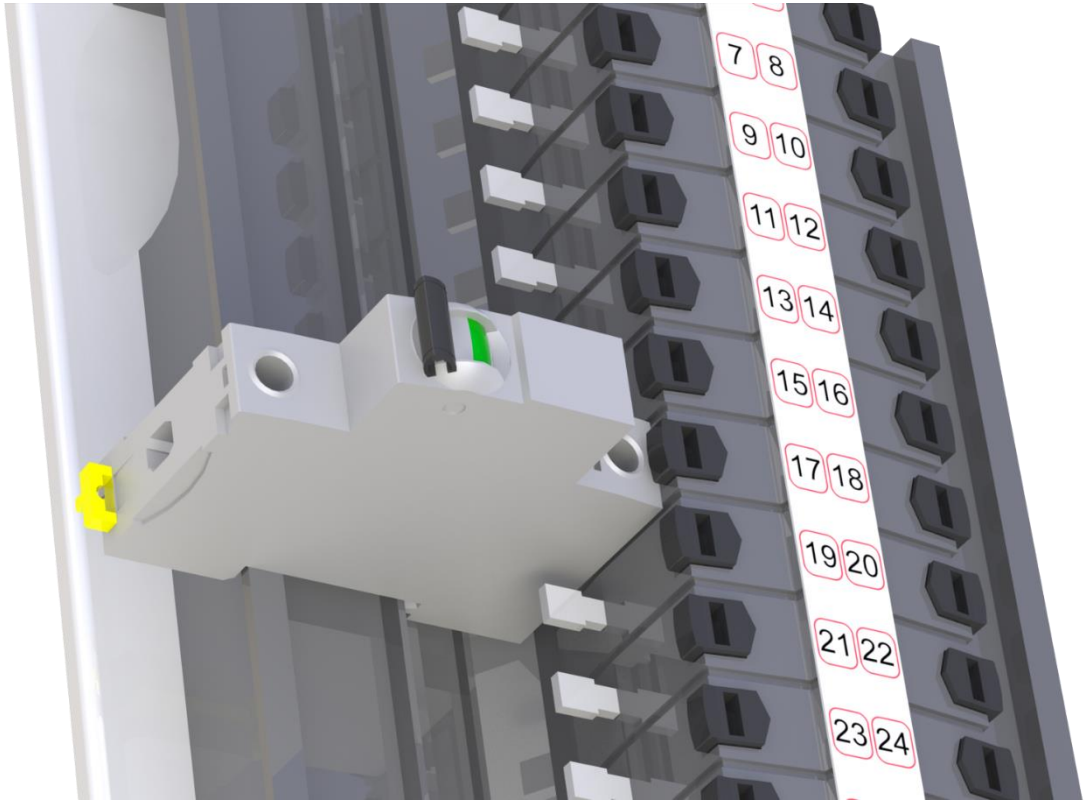

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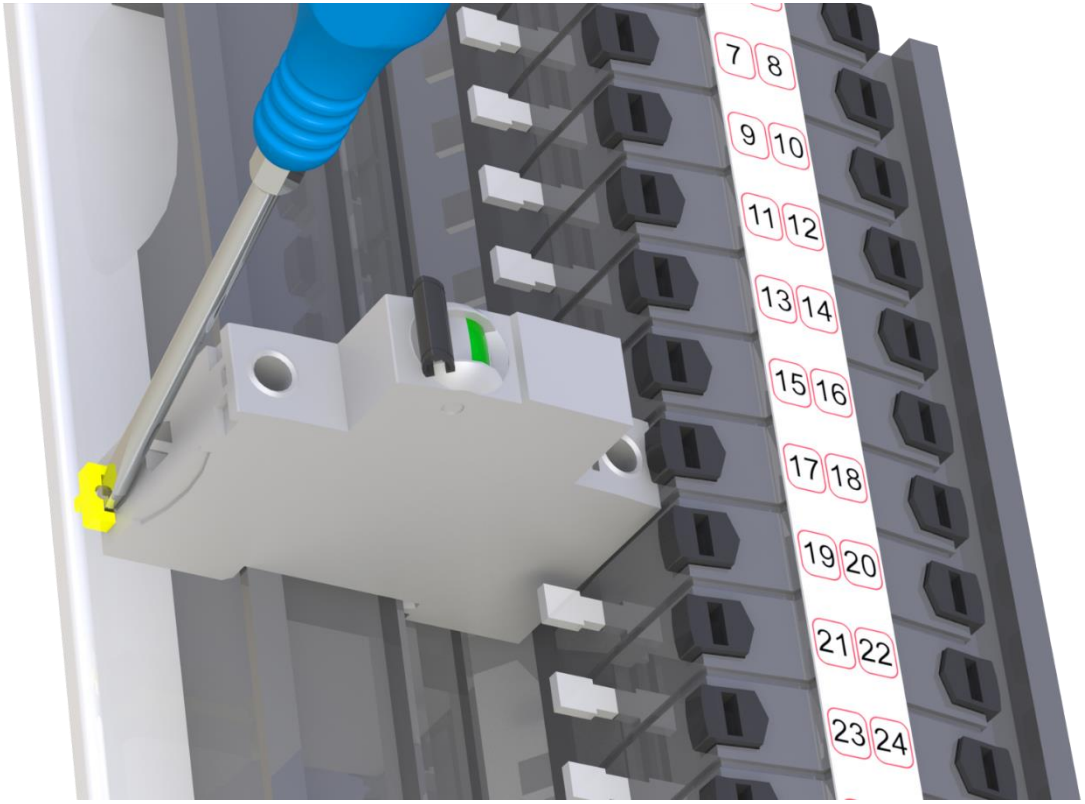

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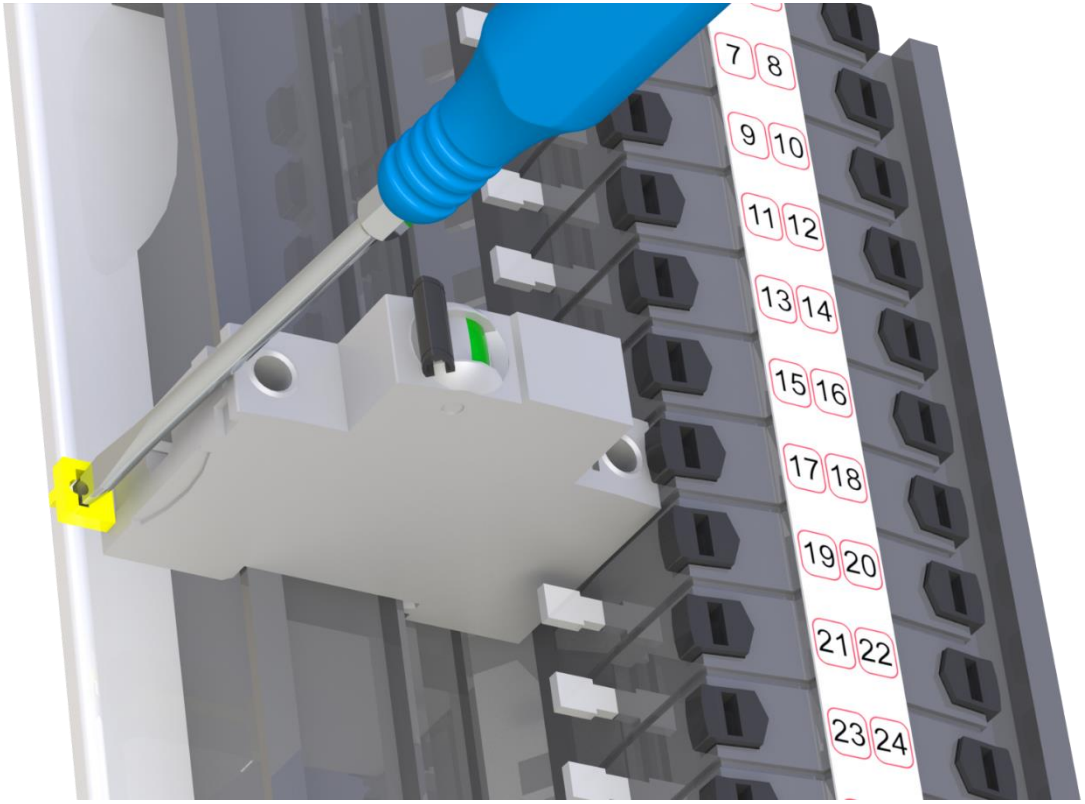

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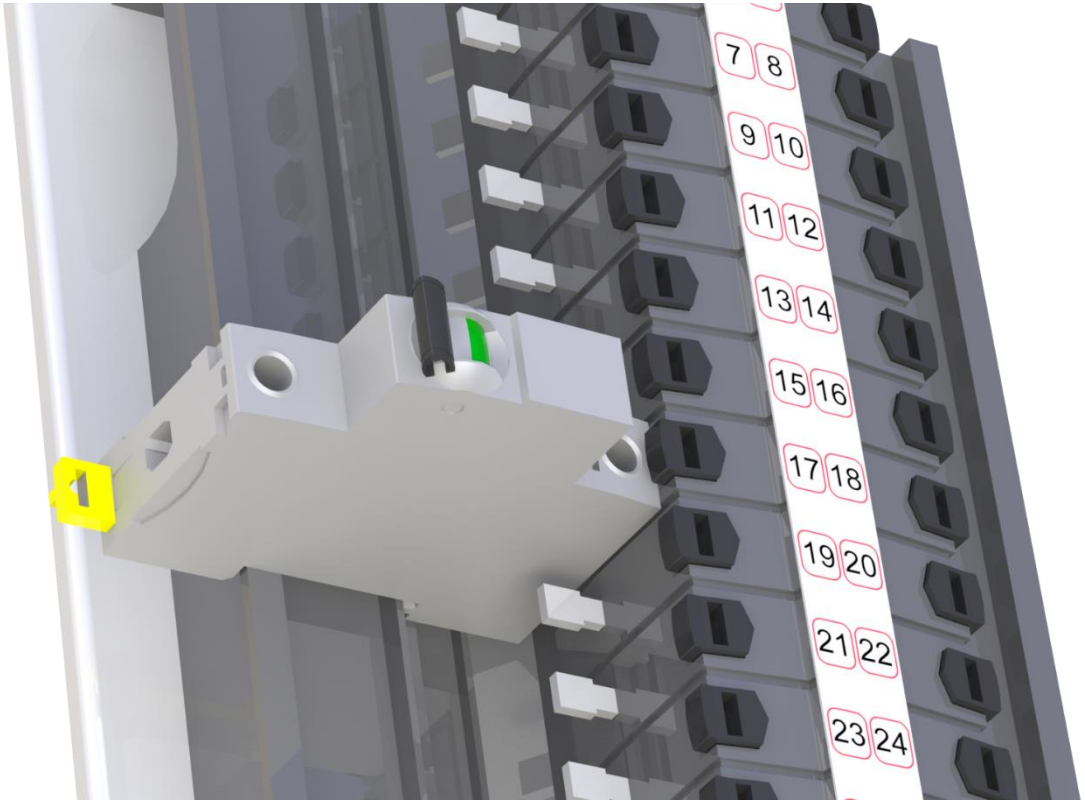
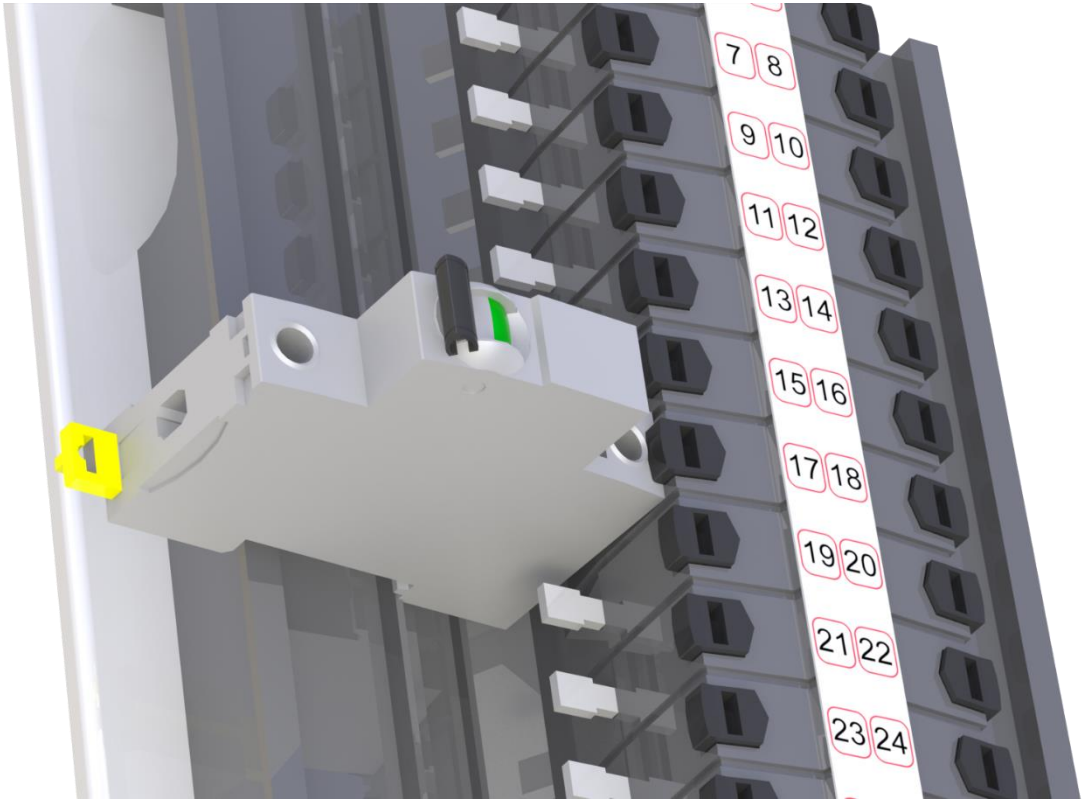


- Undo the line side termination of the circuit breaker with the correct sized screwdriver and remove



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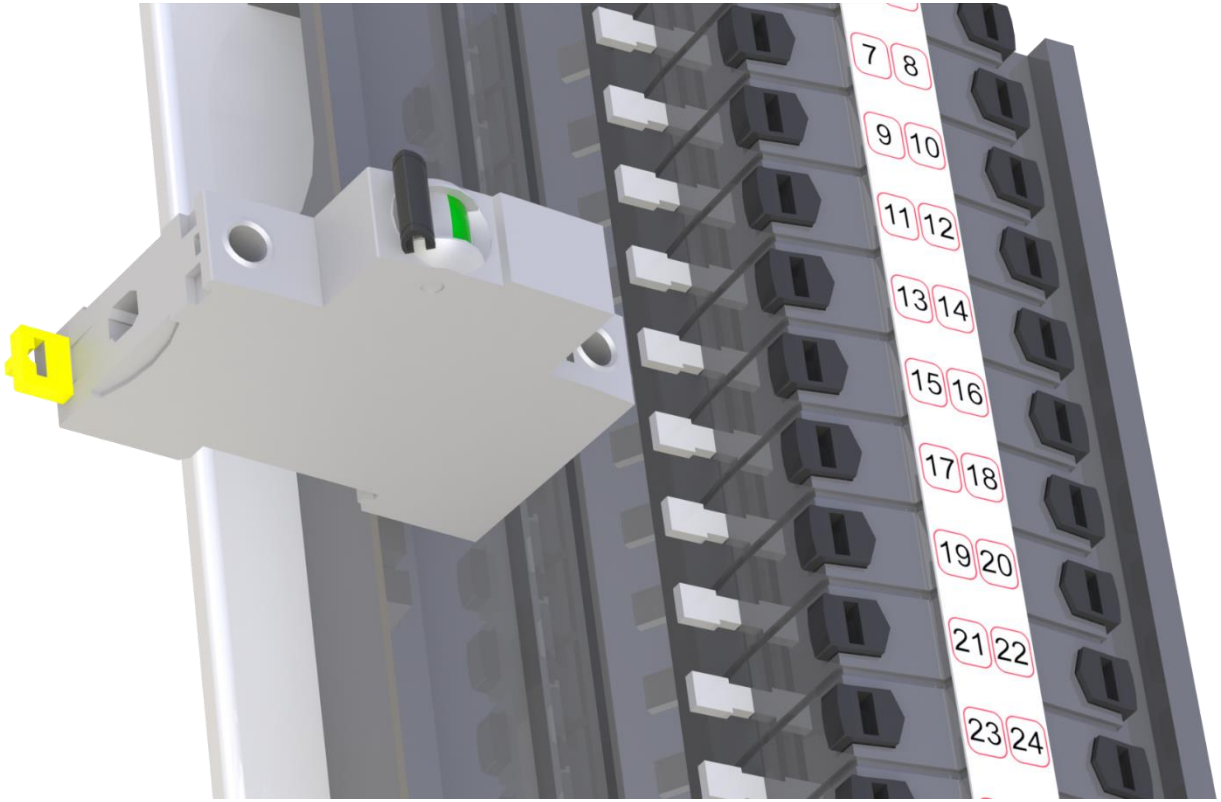
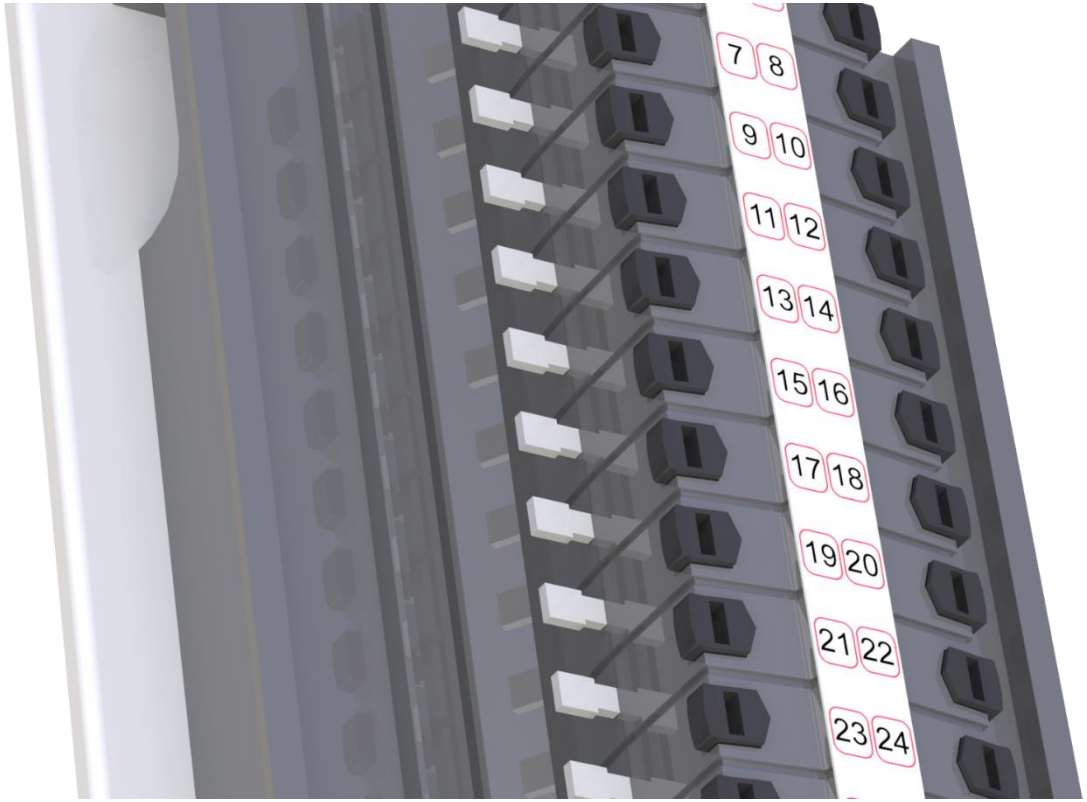


- Undo the line side termination of the circuit breaker with the correct sized screwdriver and remove

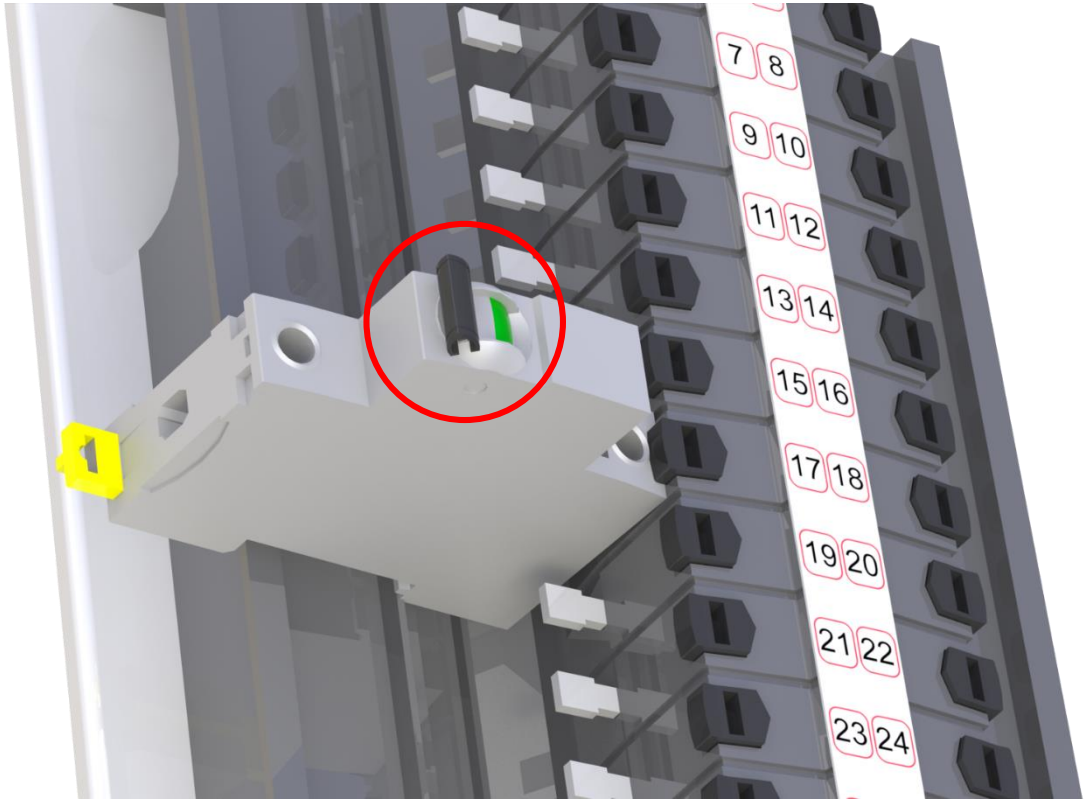


WARNING

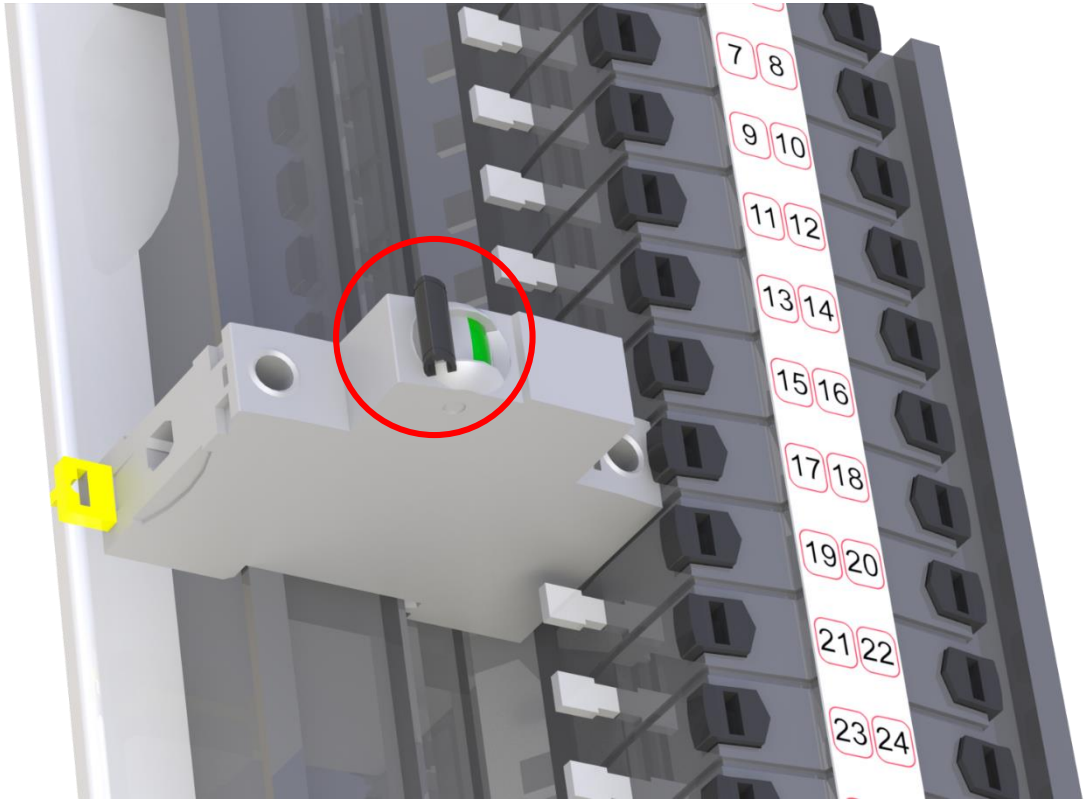
DO NOT OPERATE THE BLACK ISOLATION SLIDE WITHOUT THE CIRCUIT BREAKER INSTALLED!

STEP 8

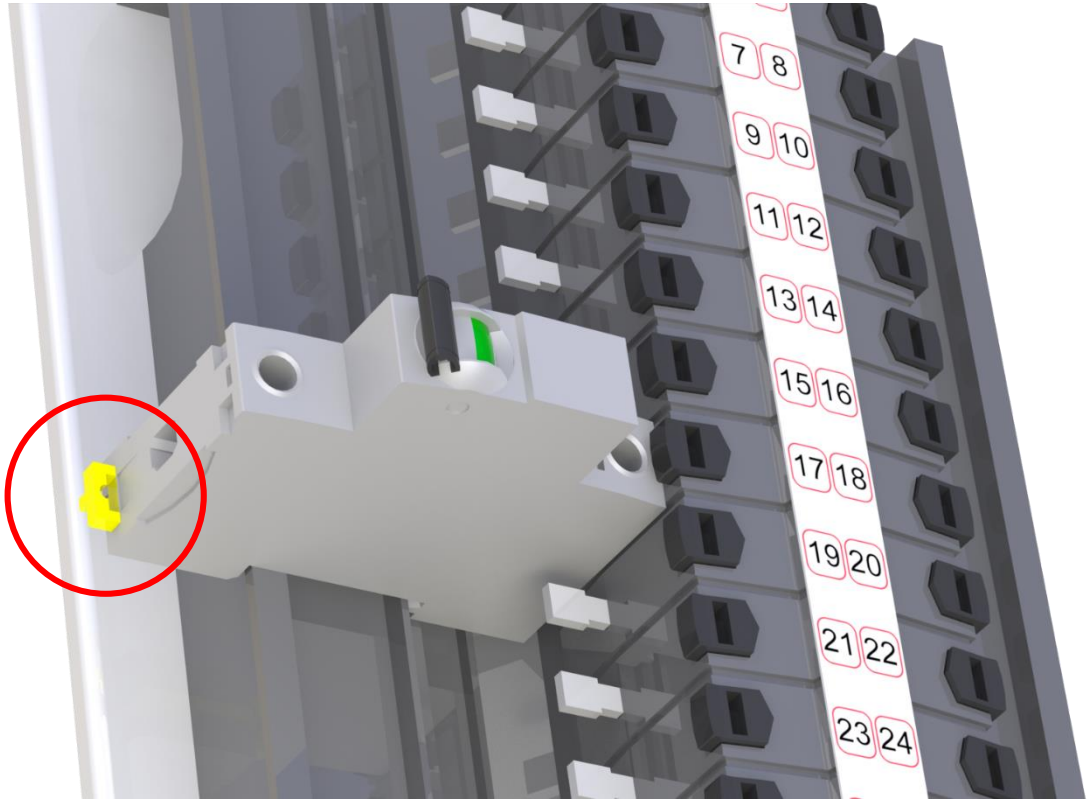
Fit the new circuit breaker into position ensuring the toggle is in the **OFF** position!



- Fit the new circuit breaker into position ensuring the toggle is in the **OFF** position!



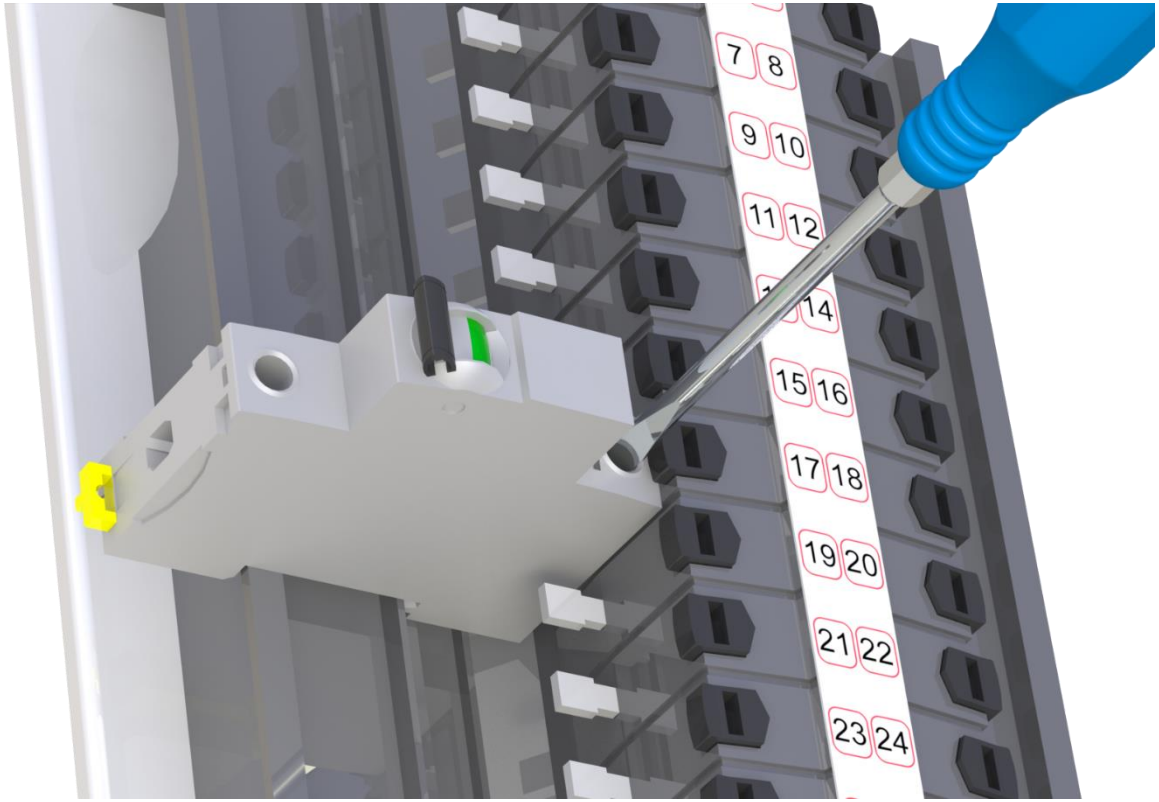
- Fit the new circuit breaker into position ensuring the toggle is in the **OFF** position!



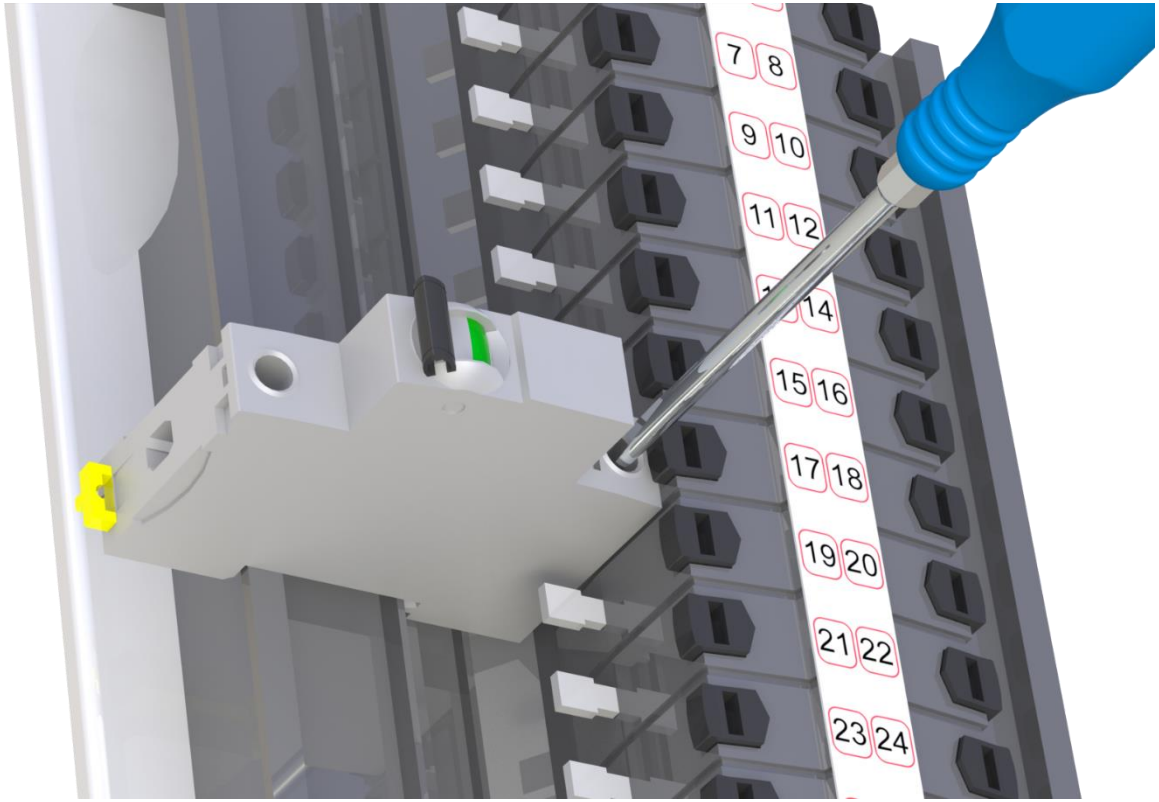
- Fit the new circuit breaker into position ensuring the toggle is in the **OFF** position!

STEP 9

Securely do up the line side termination screw with the correct sized screwdriver



- Securely do up the line side termination screw with the correct sized screwdriver



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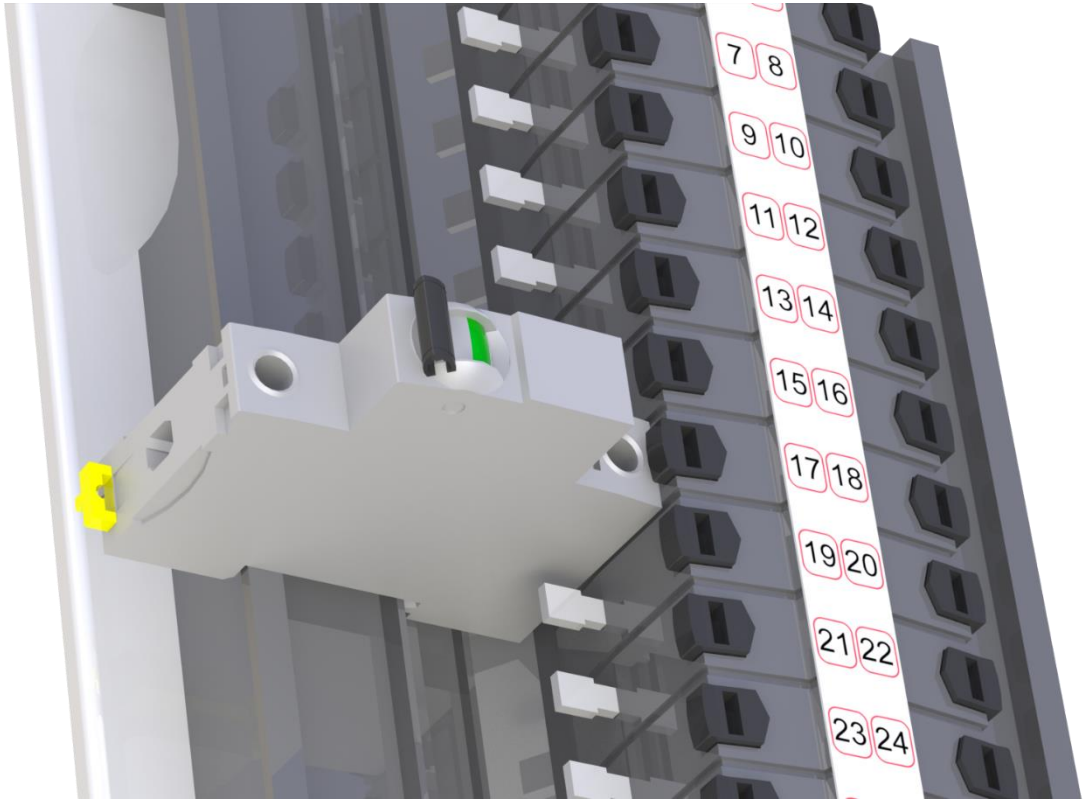
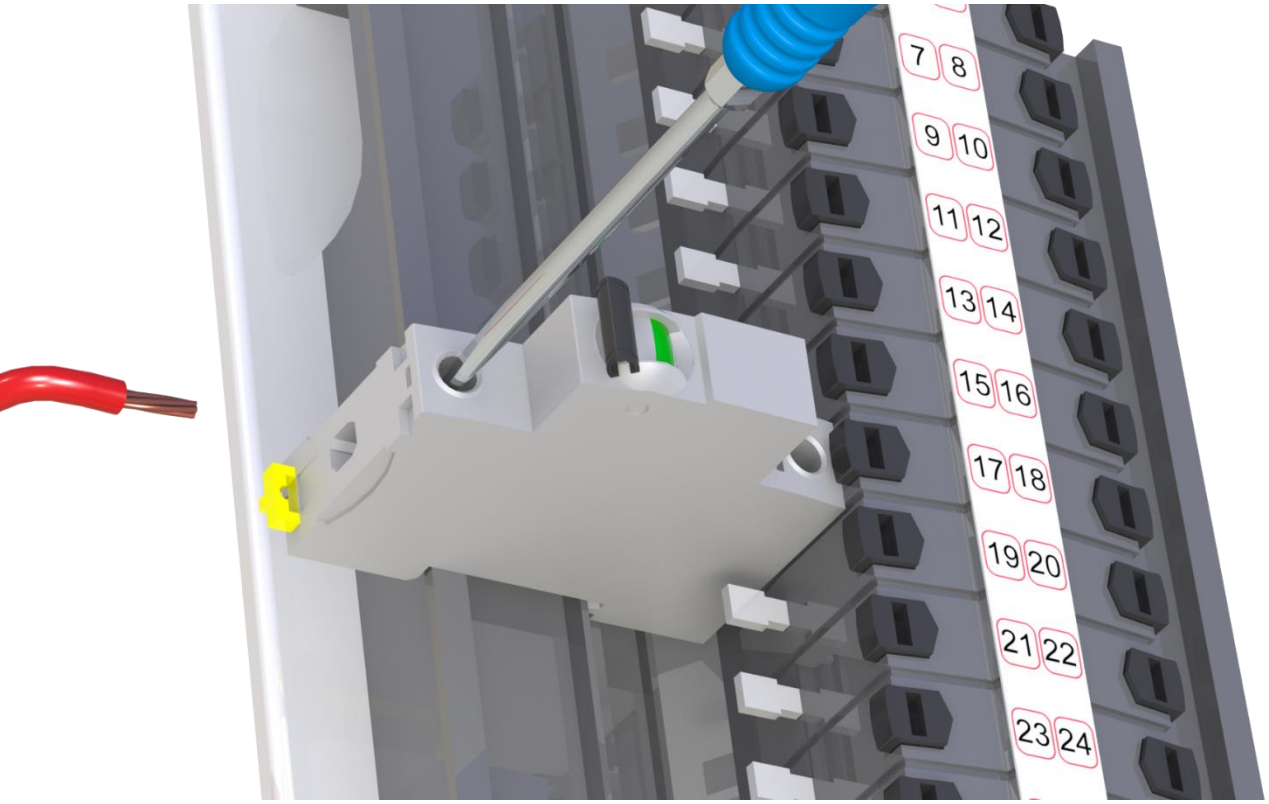


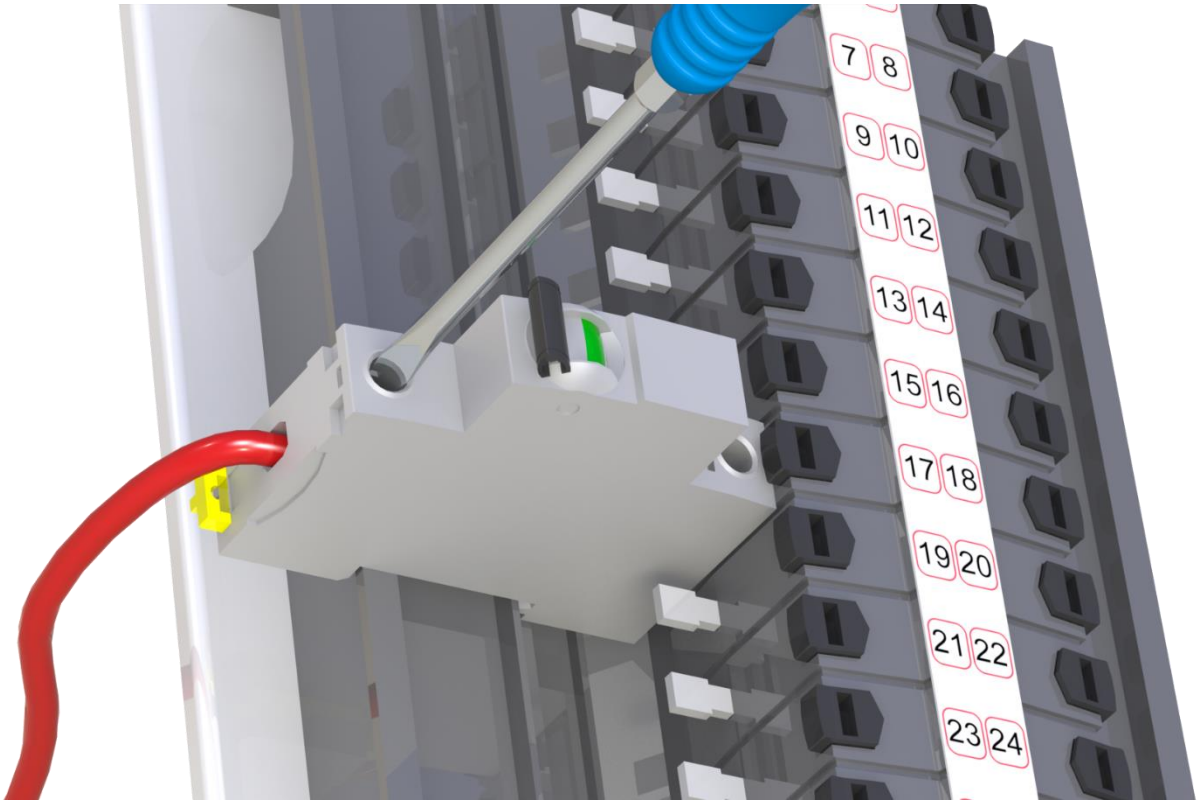
- Securely do up the line side termination screw with the correct sized screwdriver

STEP 10

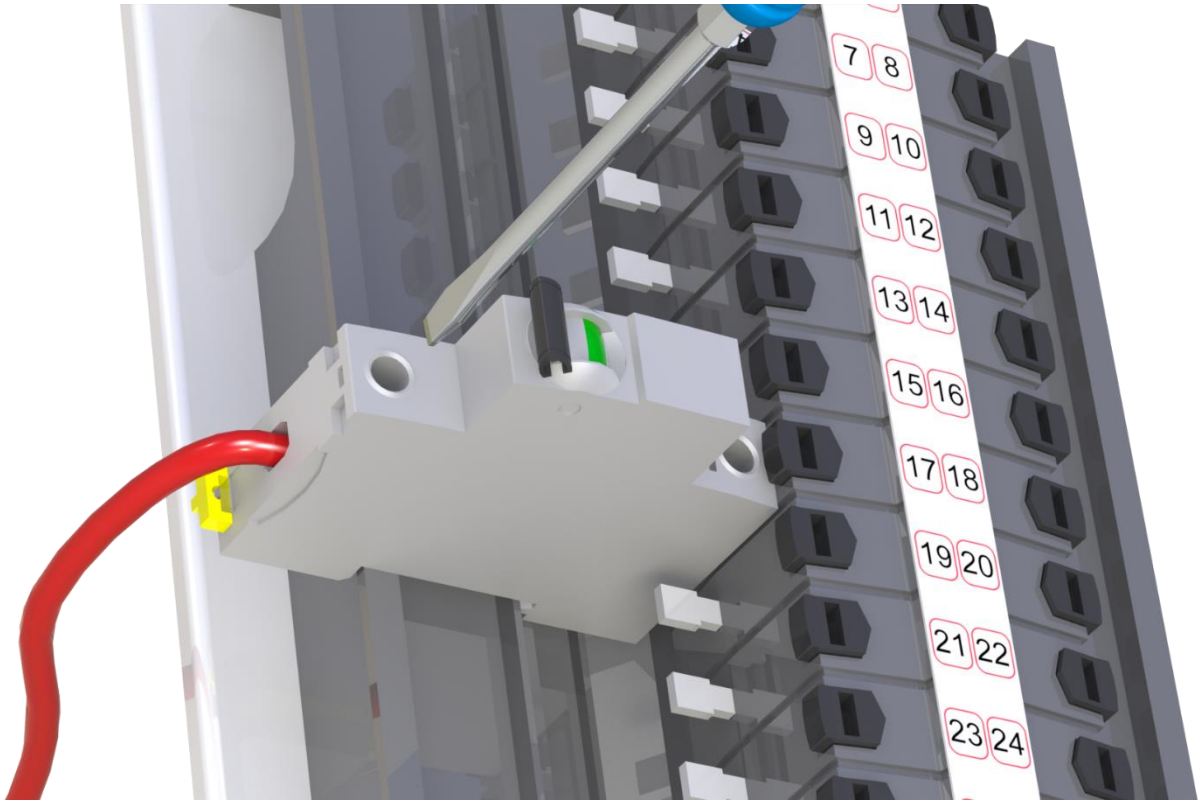
You may now reconnect the **ACTIVE** cable to the circuit breaker and do up securely



- You may now reconnect the **ACTIVE** cable to the circuit breaker and do up securely



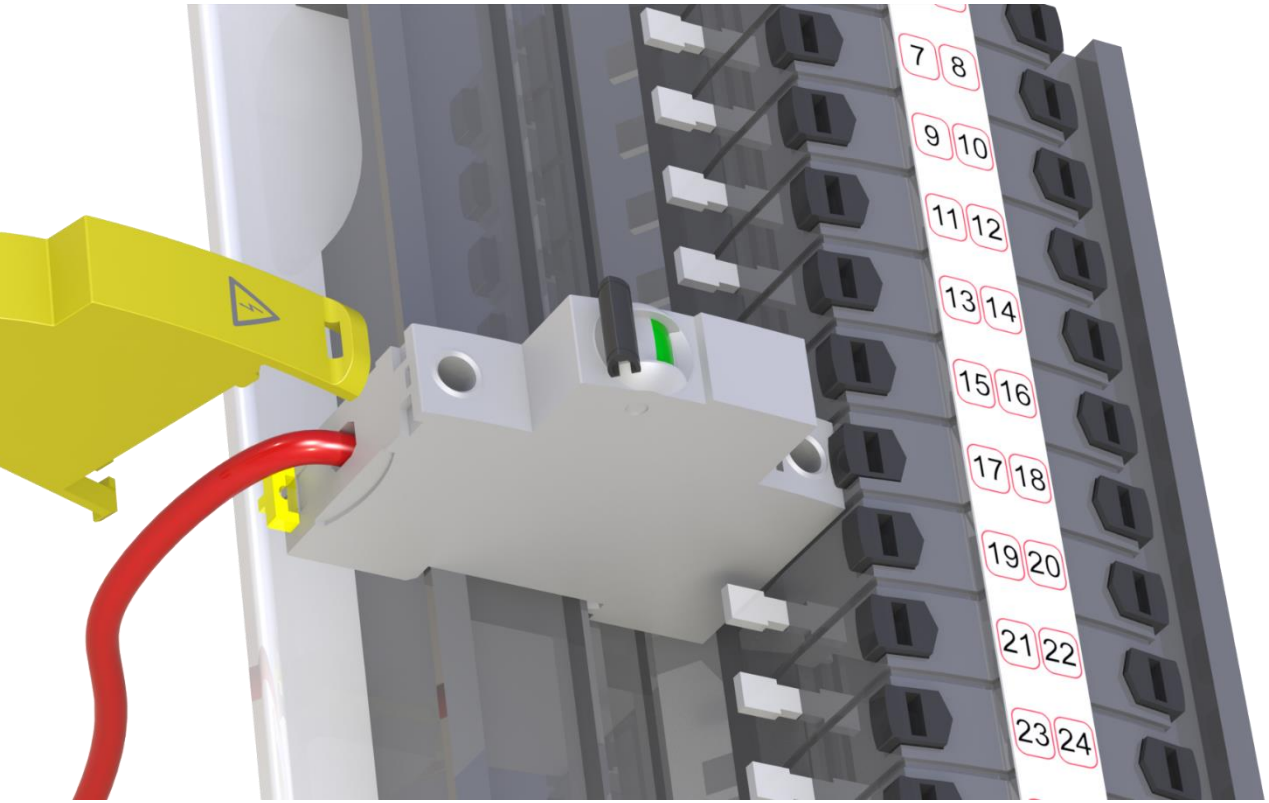
- You may now reconnect the **ACTIVE** cable to the circuit breaker and do up securely



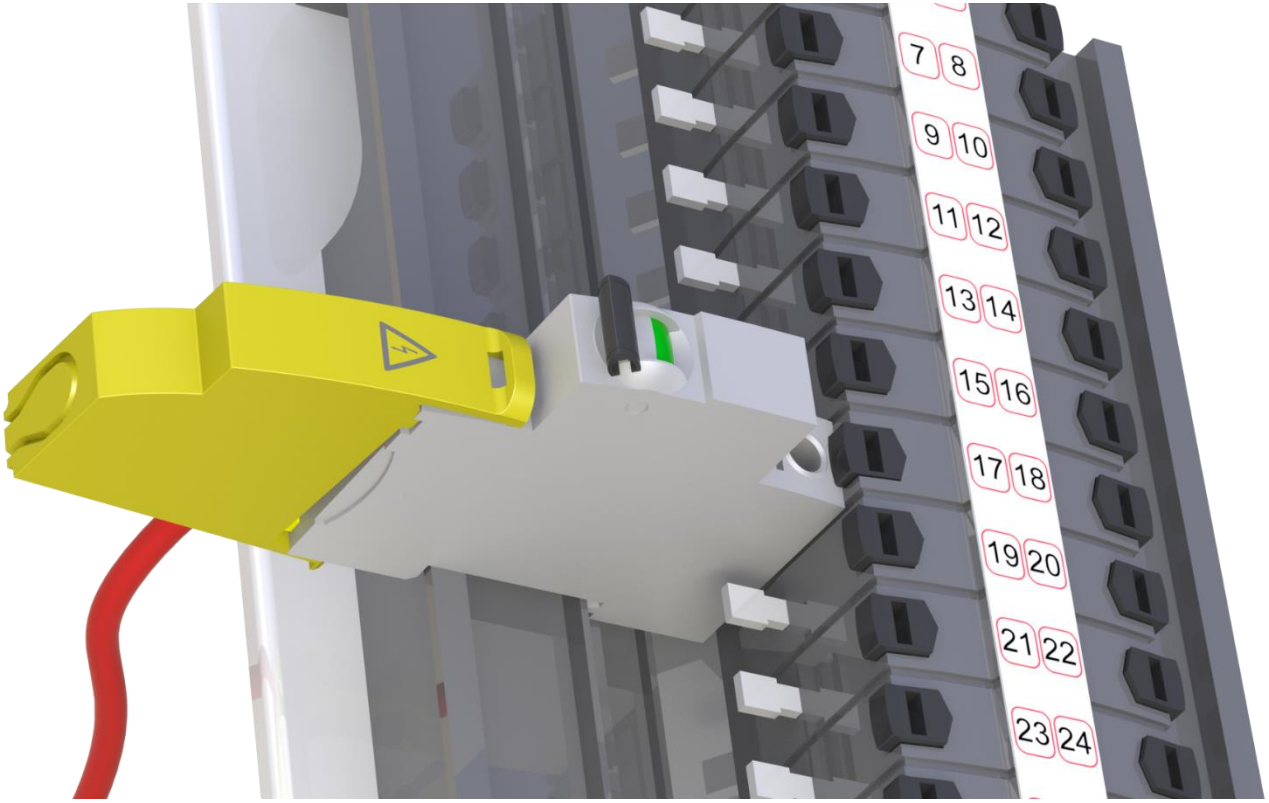
- You may now reconnect the **ACTIVE** cable to the circuit breaker and do up securely

STEP 11

Replace the circuit breaker terminal cover



- Replace the circuit breaker terminal cover



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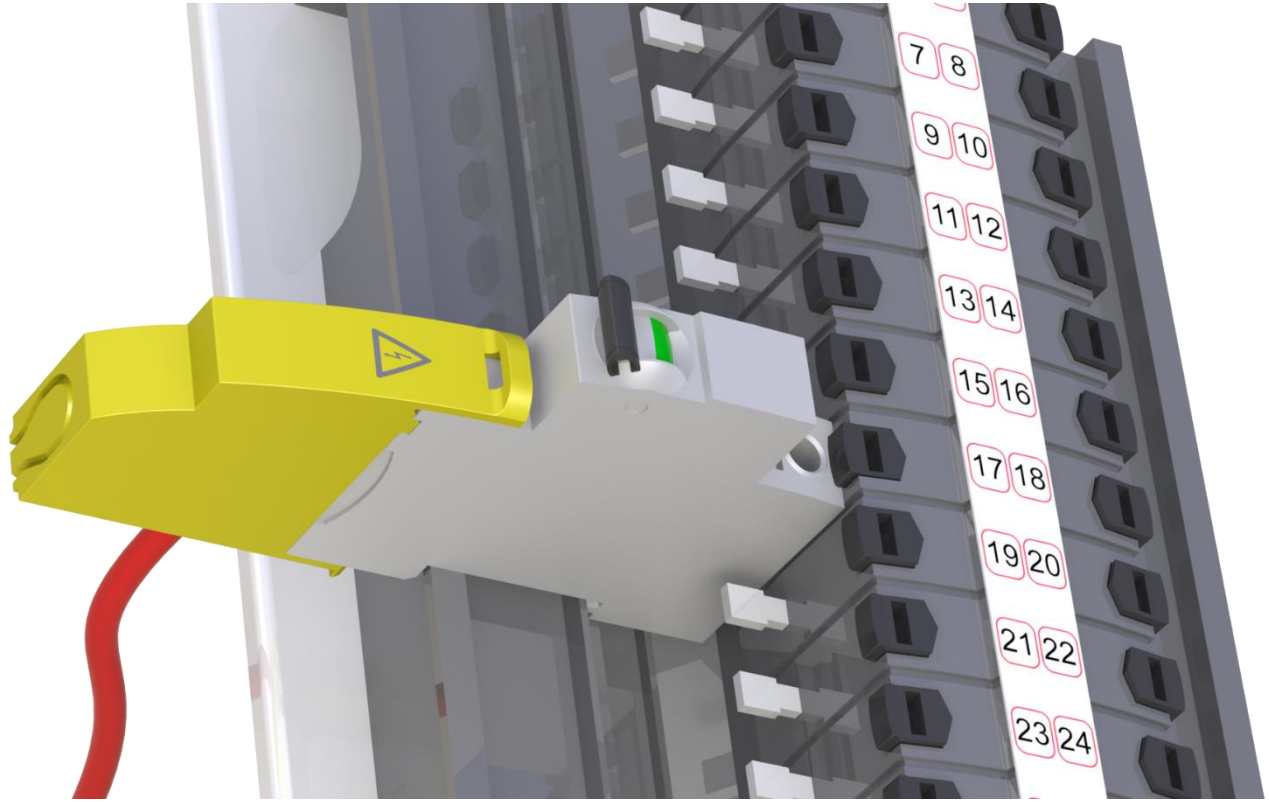
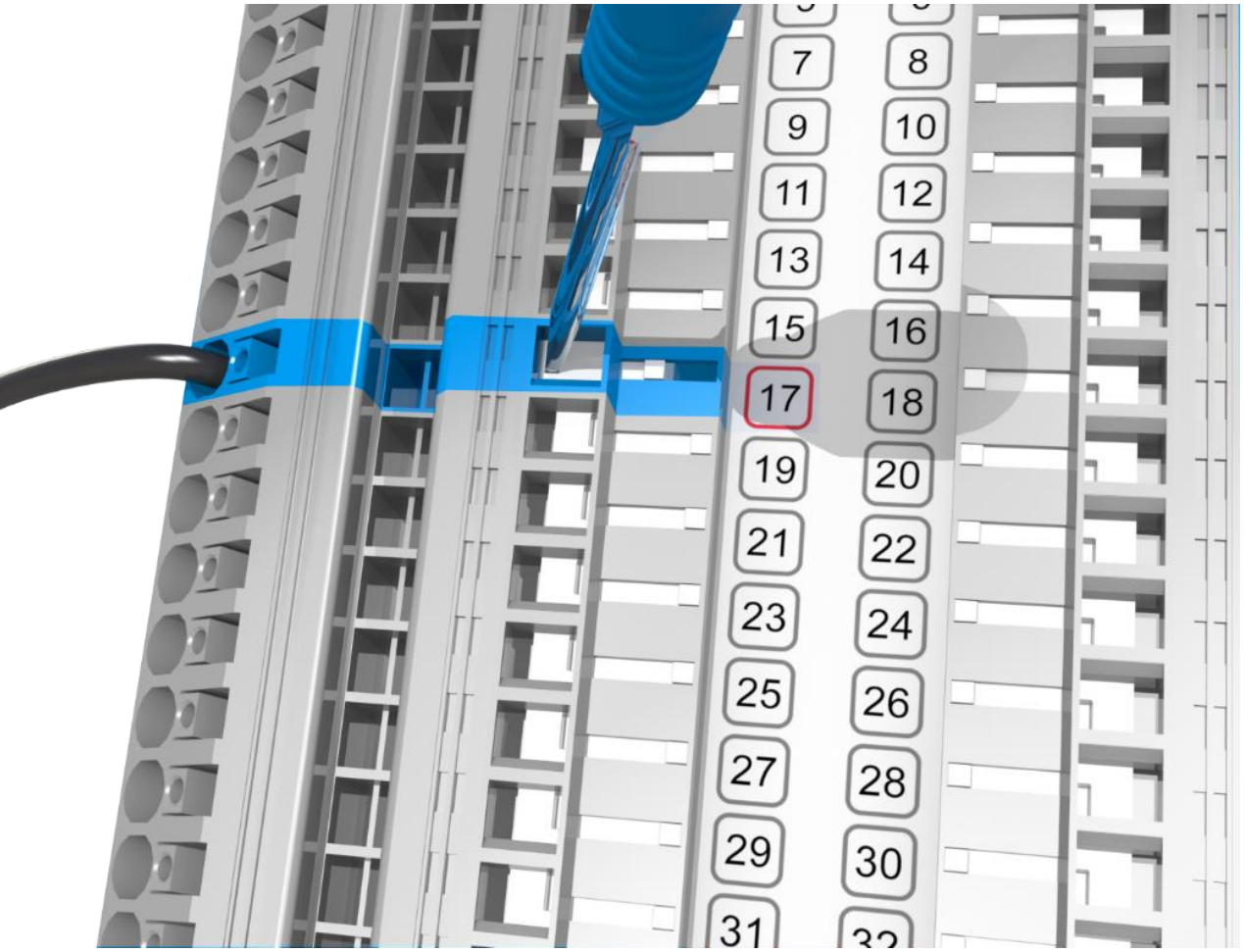


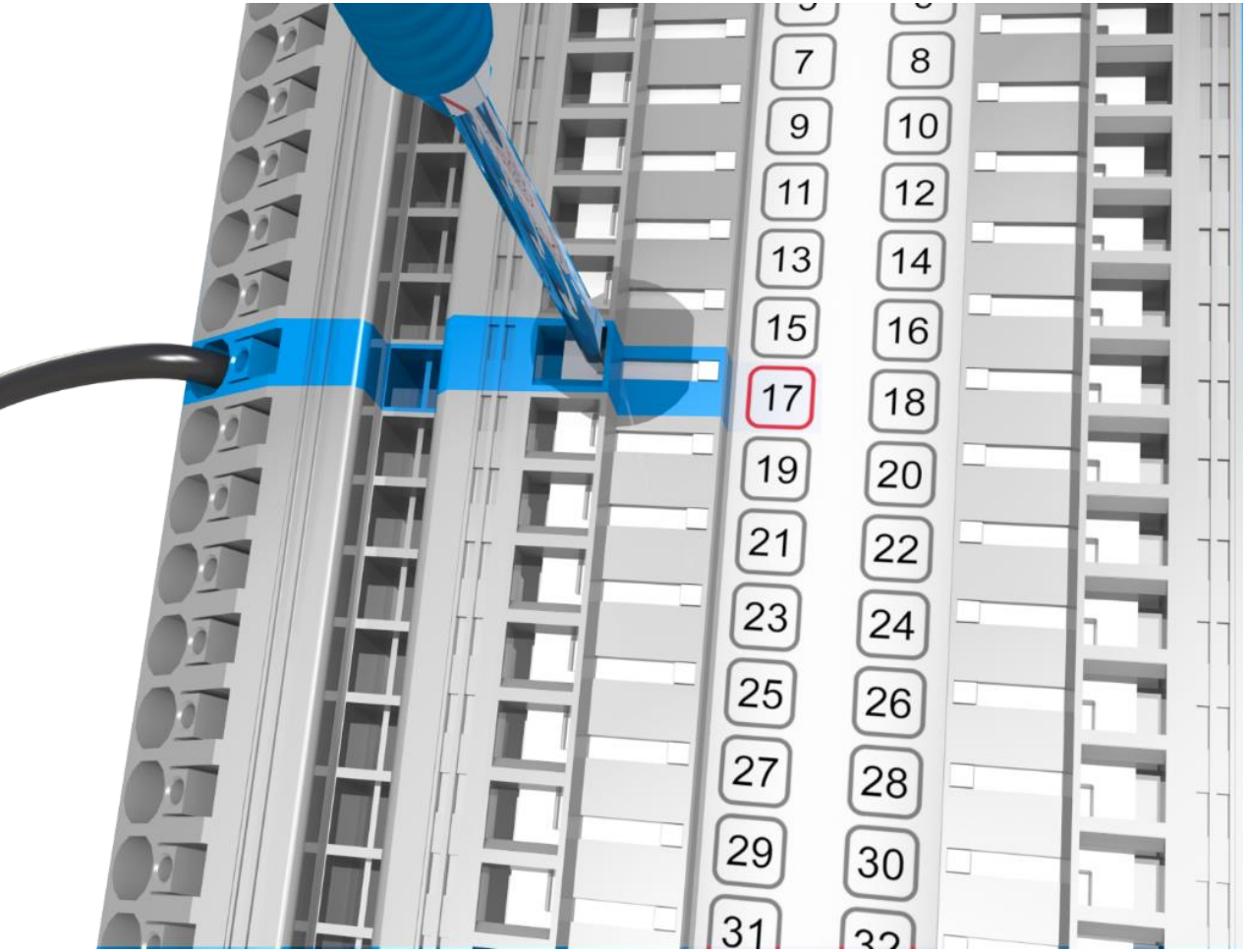
- Replace the circuit breaker terminal cover

STEP 12

Reconnect the insulated neutral slide to the **NEUTRAL** bar and ensure it is in position!



- Reconnect the insulated neutral slide to the **NEUTRAL** bar and ensure it is in position!



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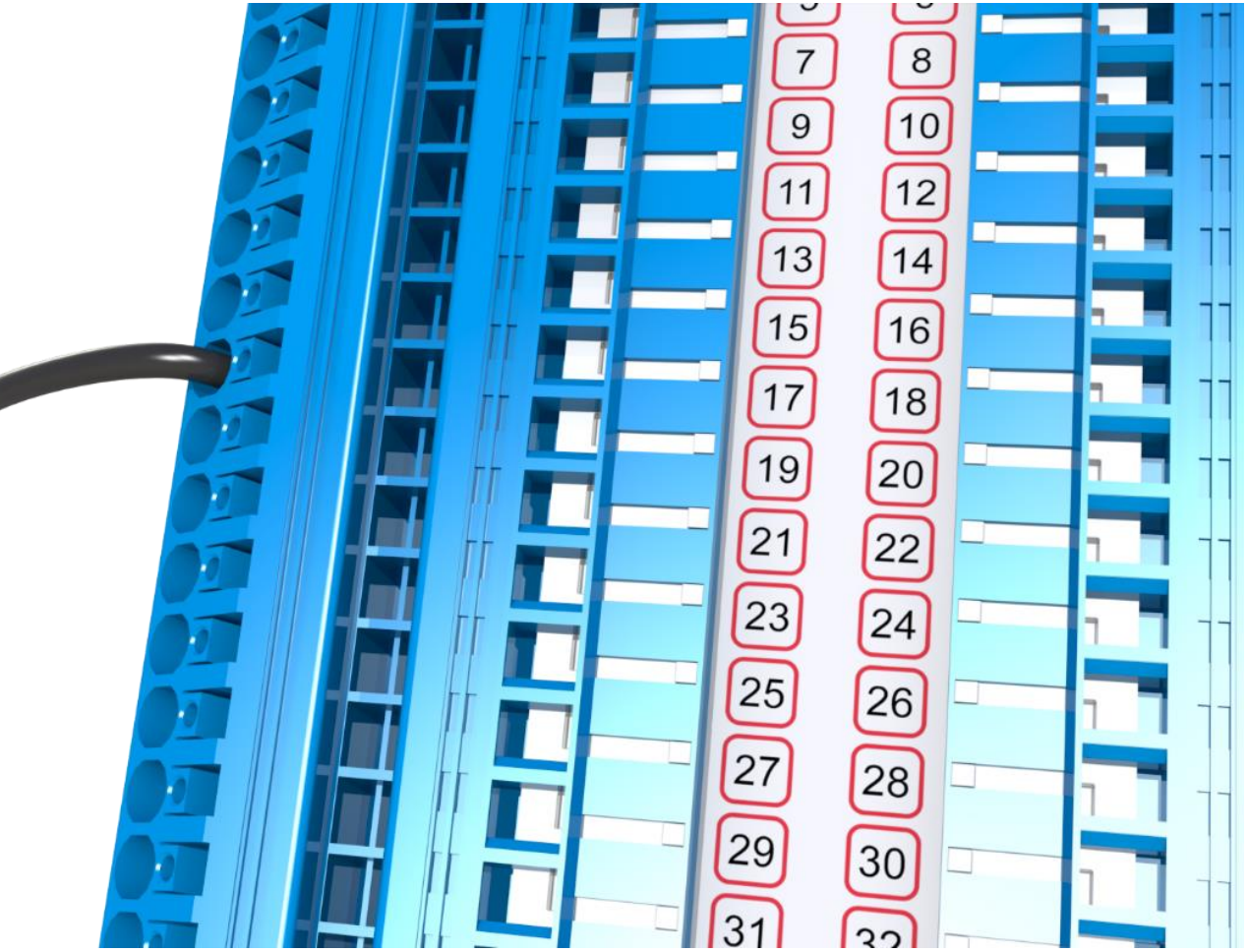
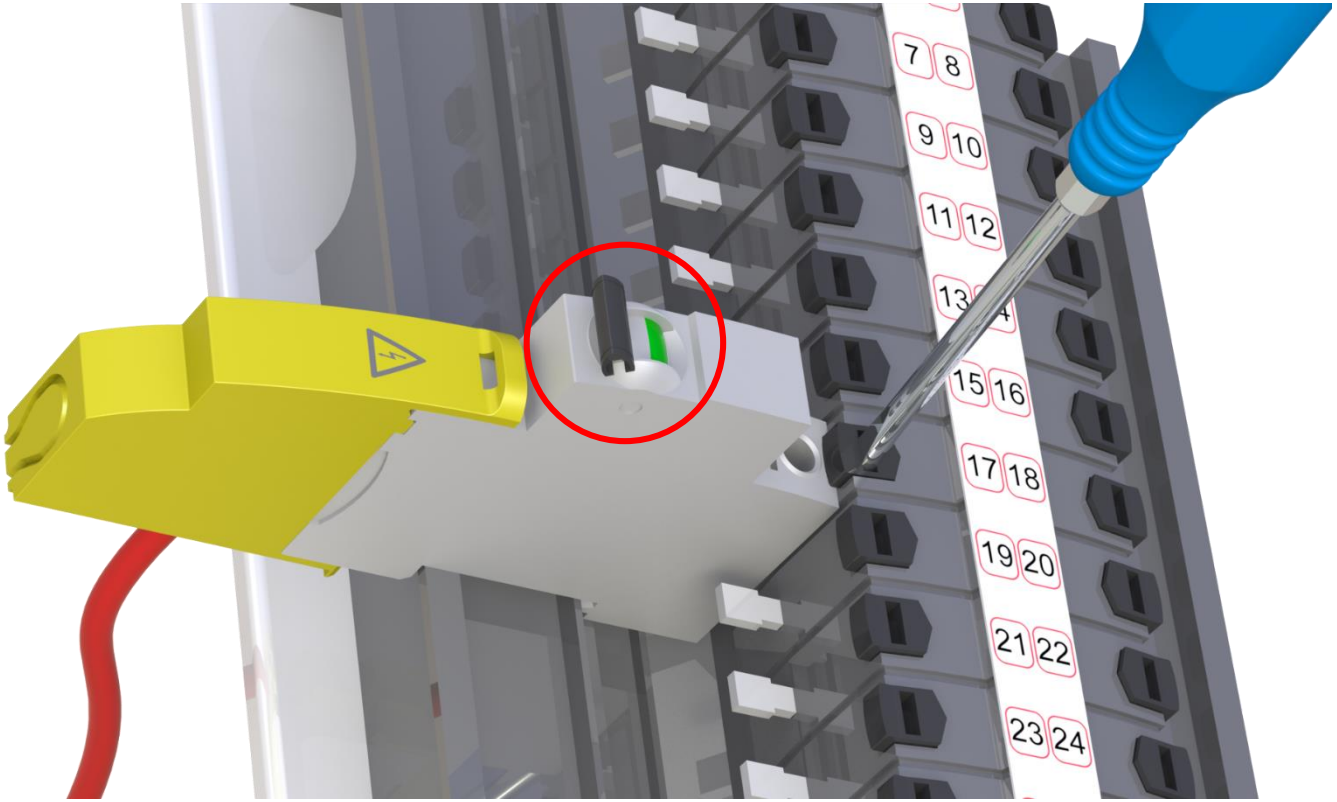


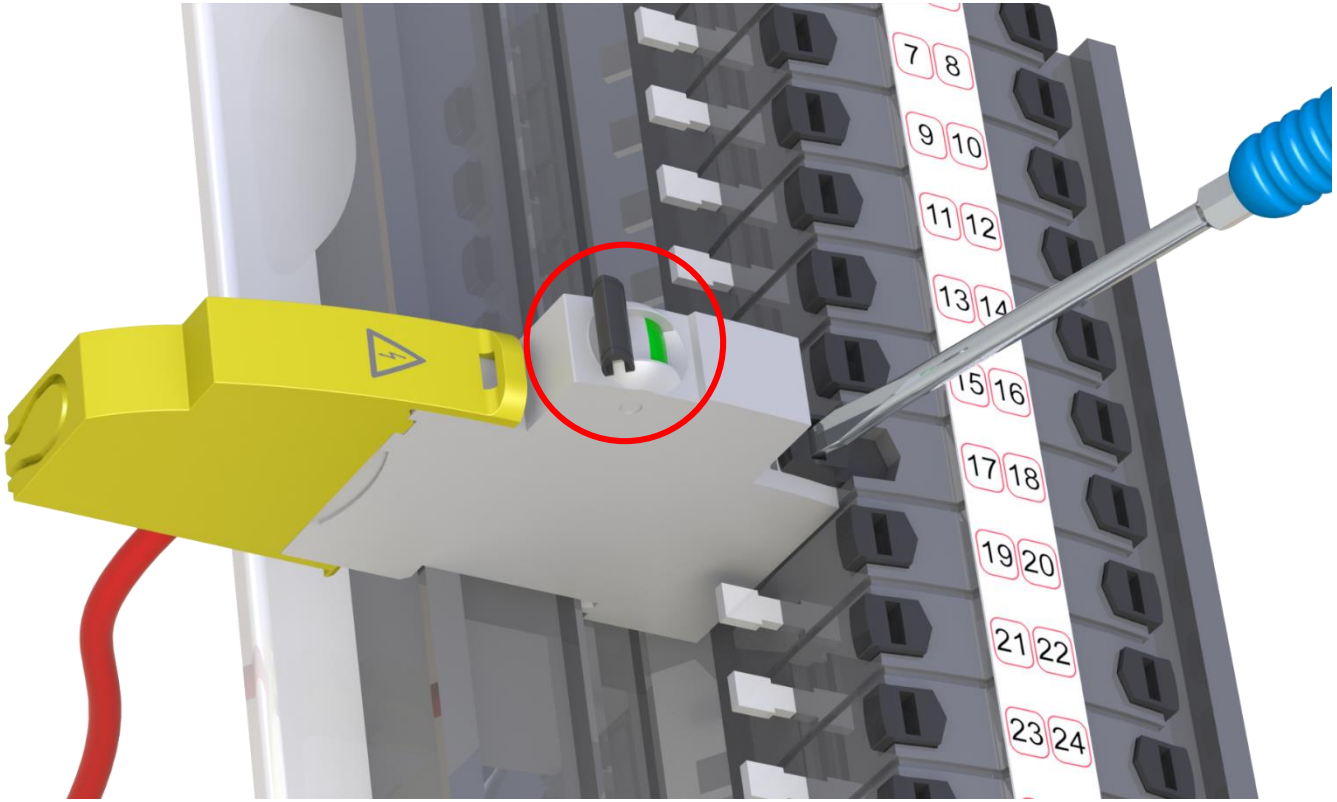
- Reconnect the insulated neutral slide to the **NEUTRAL** bar and ensure it is in position!

STEP 13

With the circuit breaker still in the **OFF** position, operate the black isolation slide so it is fully pushed towards the circuit breaker and re-check



- With the circuit breaker still in the **OFF** position, operate the black isolation slide so it is fully pushed towards the circuit breaker and re-check



- With the circuit breaker still in the **OFF** position, operate the black isolation slide so it is fully pushed towards the circuit breaker and re-check

STEP 14

Ensure the following:

- **no tools are left in the switchboard**

and that

- **all connections are sound**

STEP 14

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and that

- ☐ **all connections are sound**

STEP 14

Ensure the following:

- ☑ **no tools are left in the switchboard**

and that

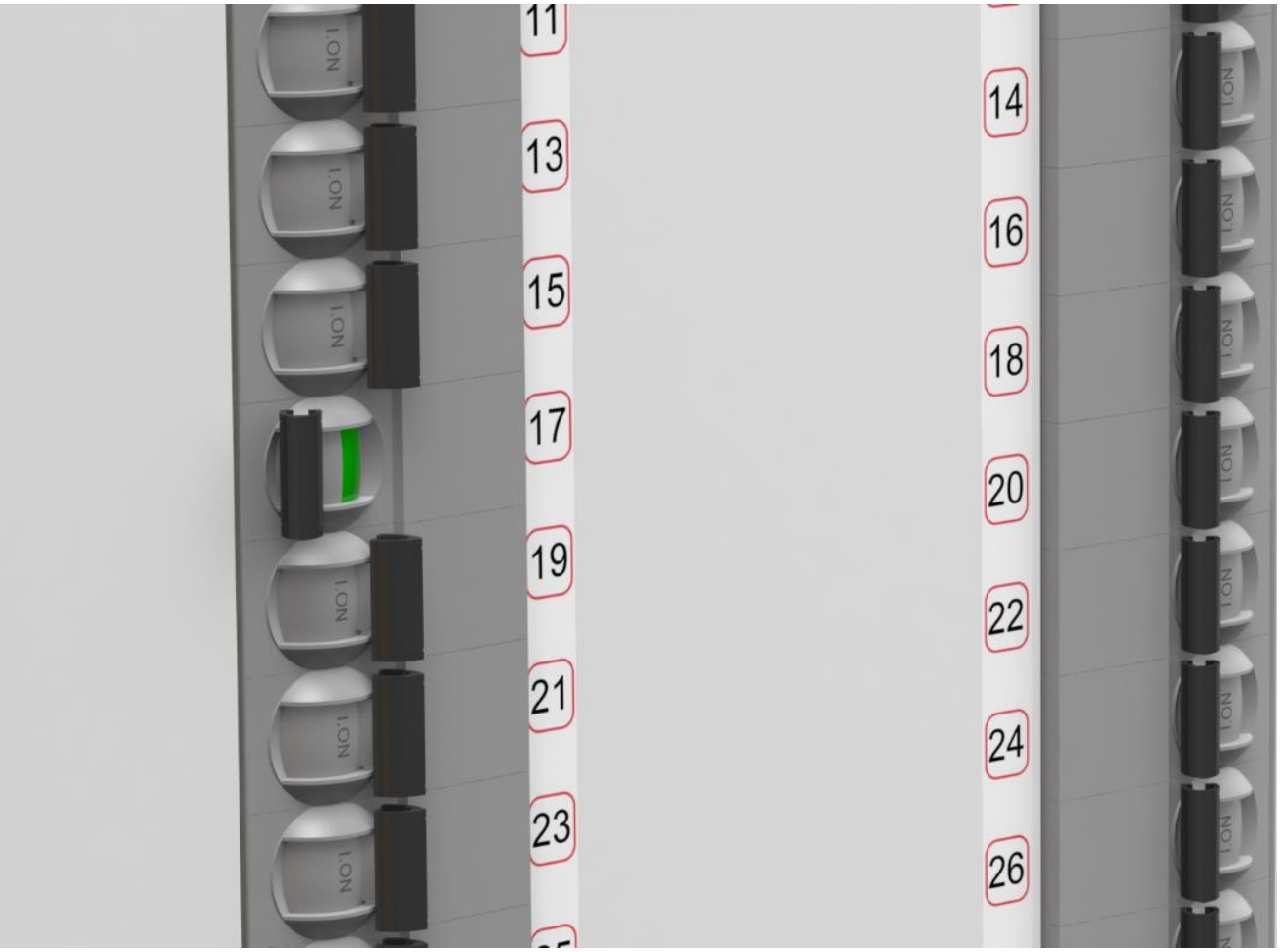
- ☑ **all connections are sound**

STEP 15

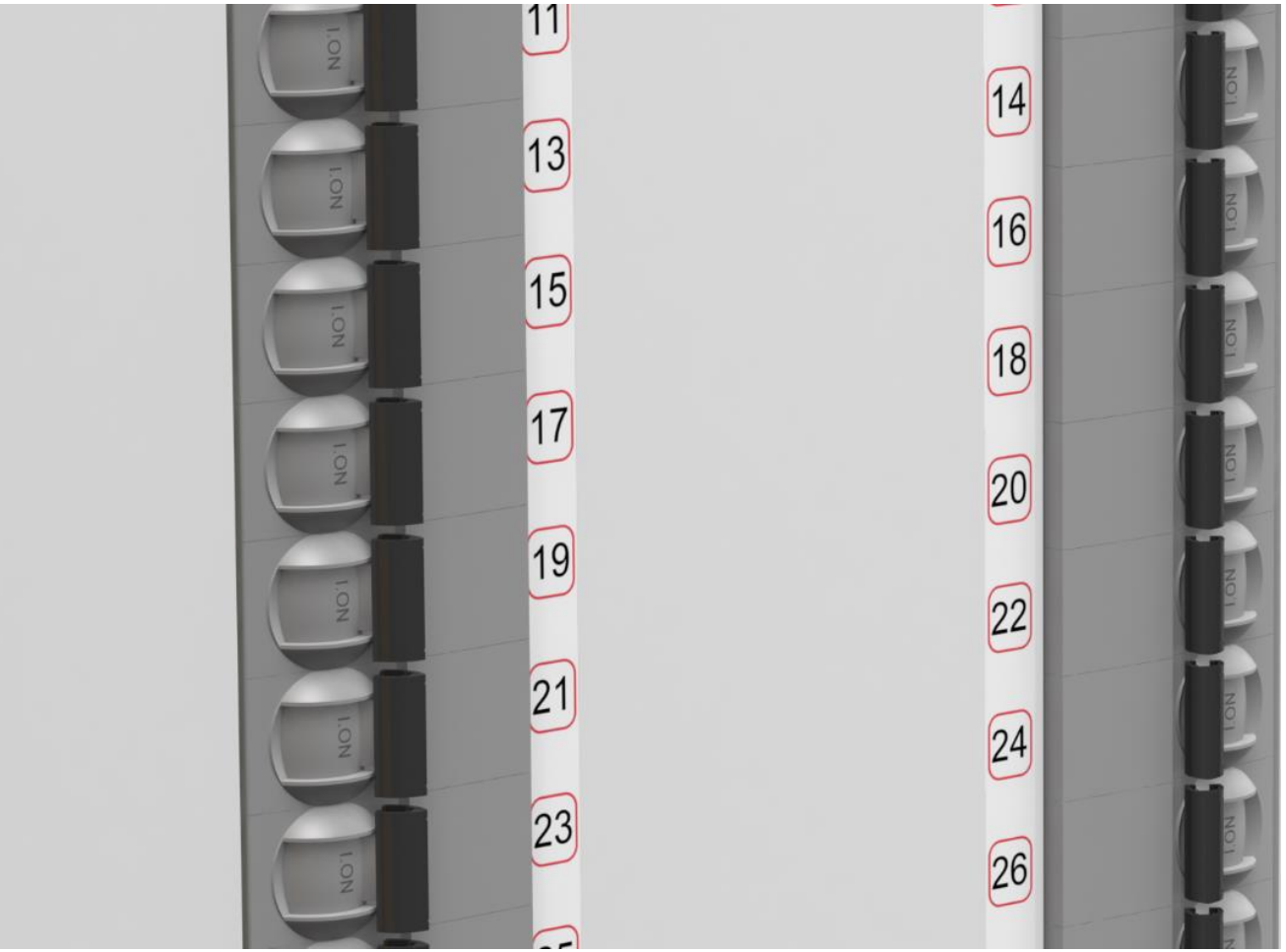
Close the escutcheon

STEP 16

The circuit breaker may now be switched to the **ON** position



- The circuit breaker may now be switched to the **ON** position



- The circuit breaker may now be switched to the **ON** position

- You have successfully completed the replacement of a circuit breaker!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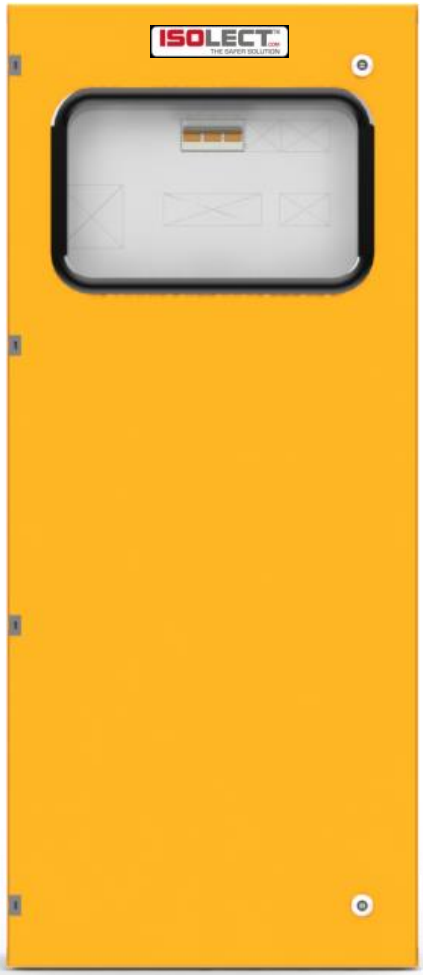


- An optional Voltage test point can be provided.

  Check that your voltage tester is functioning correctly.

STEP 1

Decide on

OVERHEAD entry

or

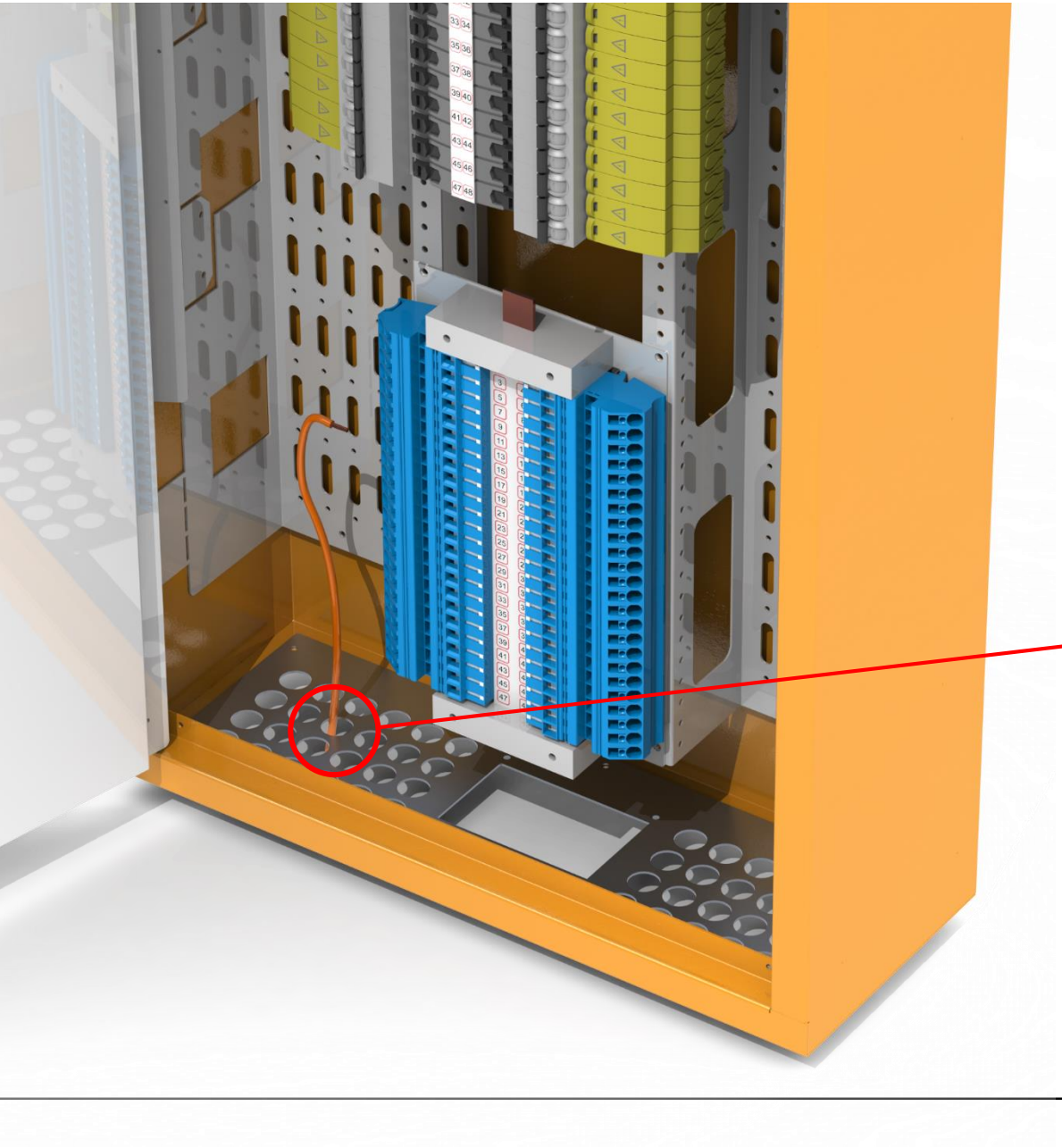
UNDER FLOOR entry

Decide on

OVERHEAD entry

or

UNDER FLOOR entry



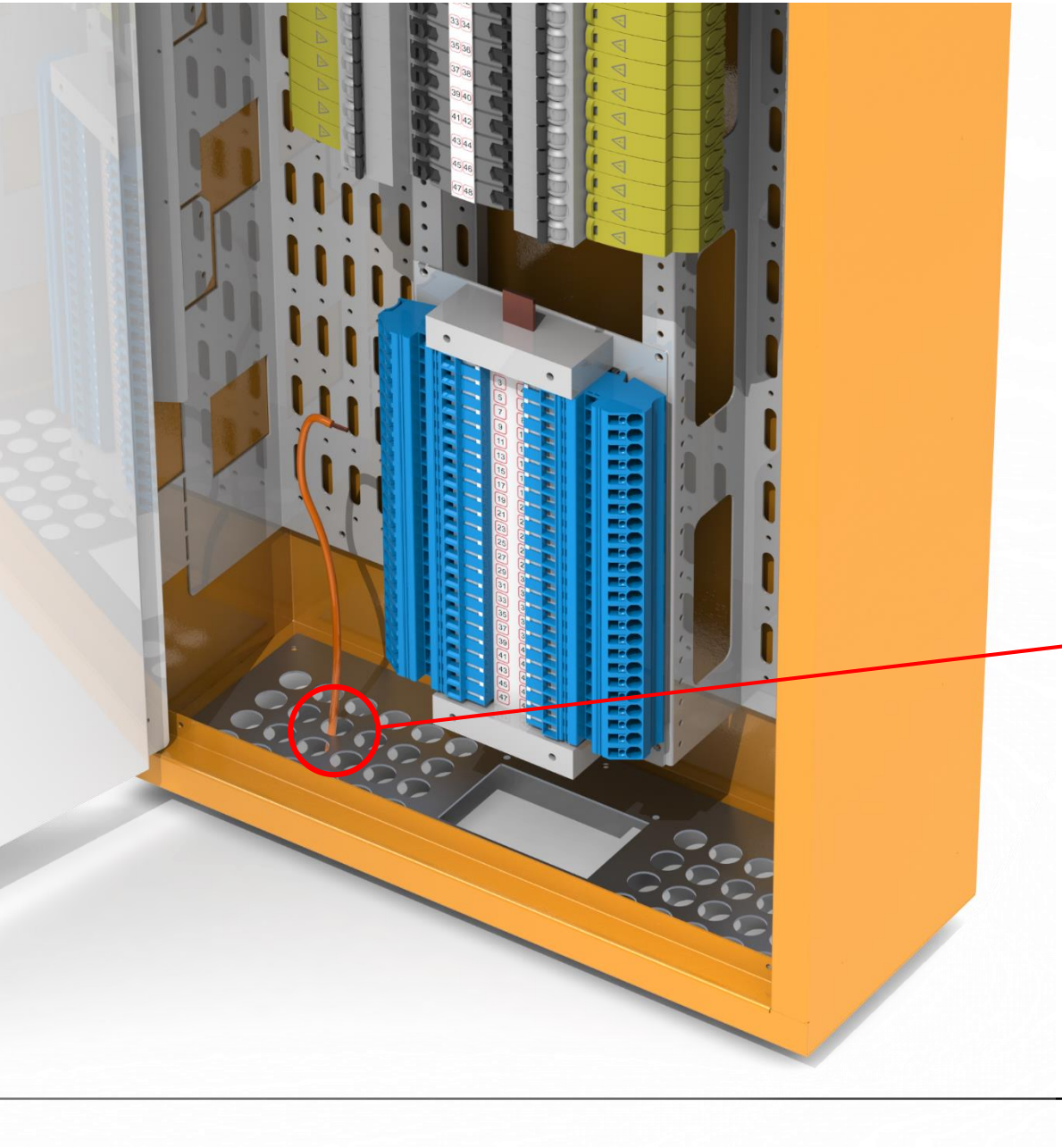
- Decide on

  OVERHEAD entry

  or

  UNDER FLOOR entry

Select the pre-punched hole in the combination neoprene / aluminium entry plate and push the cable through



- Decide on

  OVERHEAD entry

  or

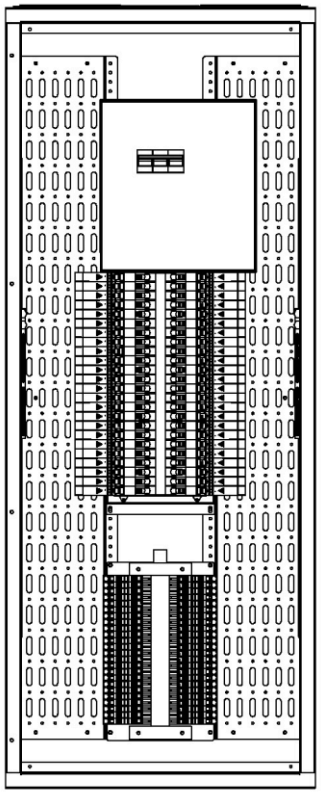
  UNDER FLOOR entry

Select the pre-punched hole in the combination neoprene / aluminium entry plate and push the cable through

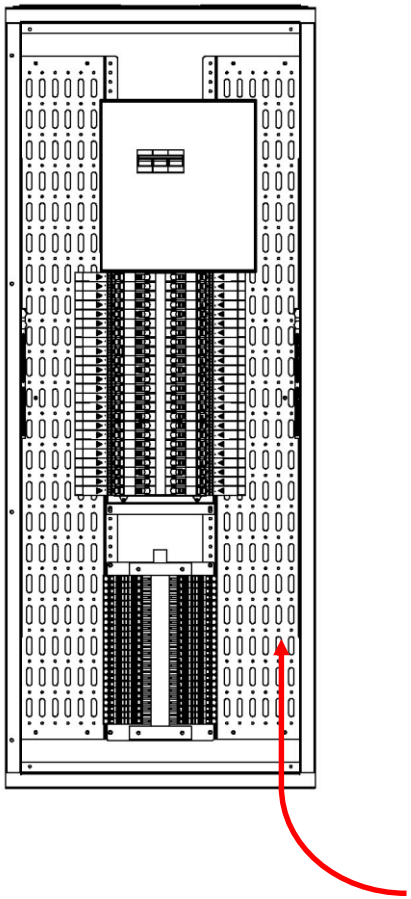
Start with the rear of the board

STEP 2

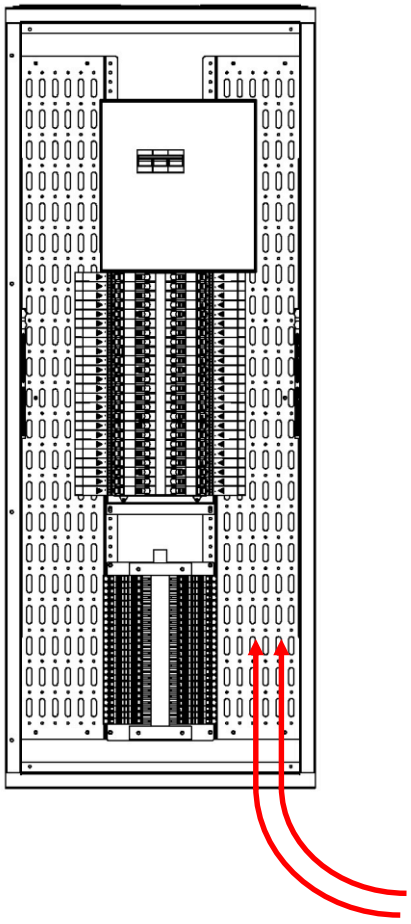
Draw cables to the required point



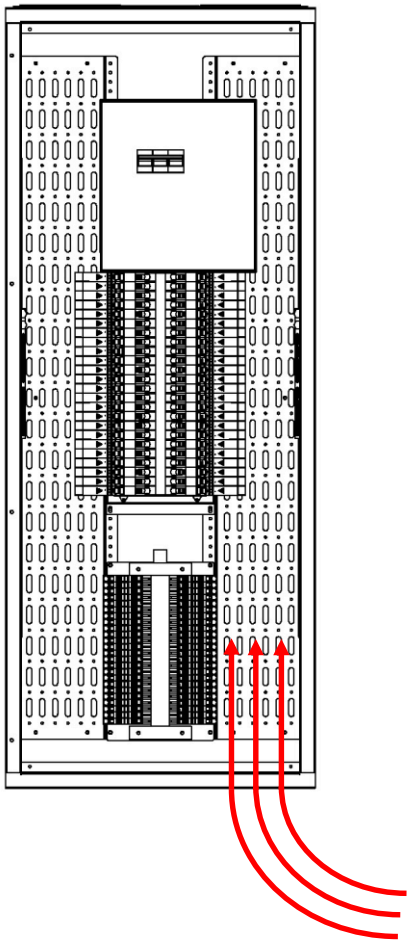
Draw cables to the required point



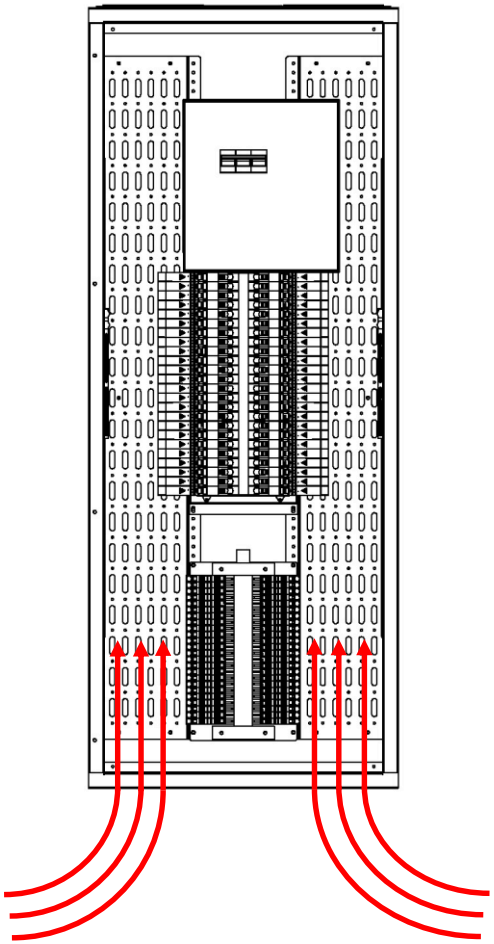
Draw cables to the required point



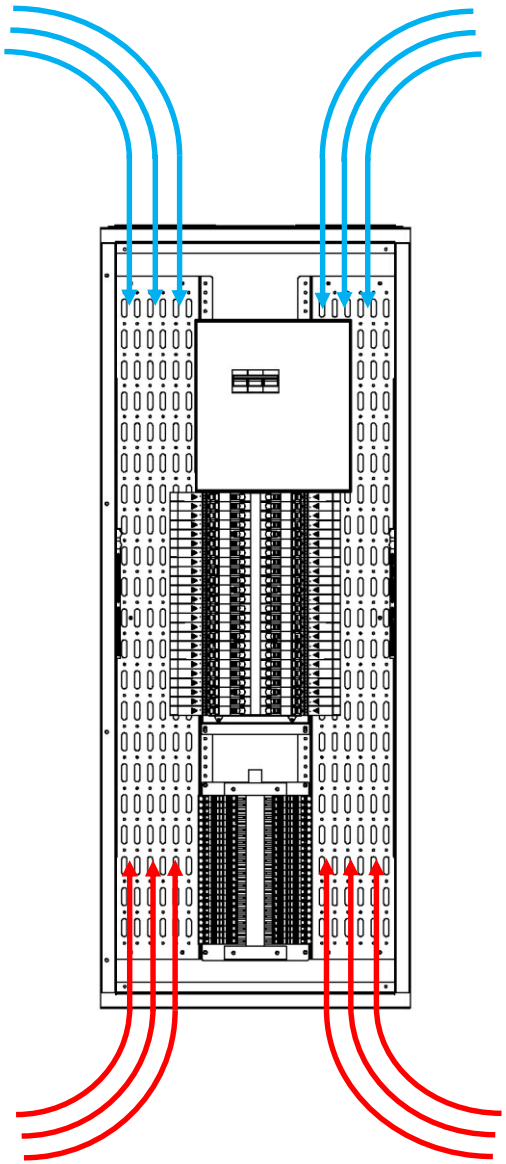
Draw cables to the required point



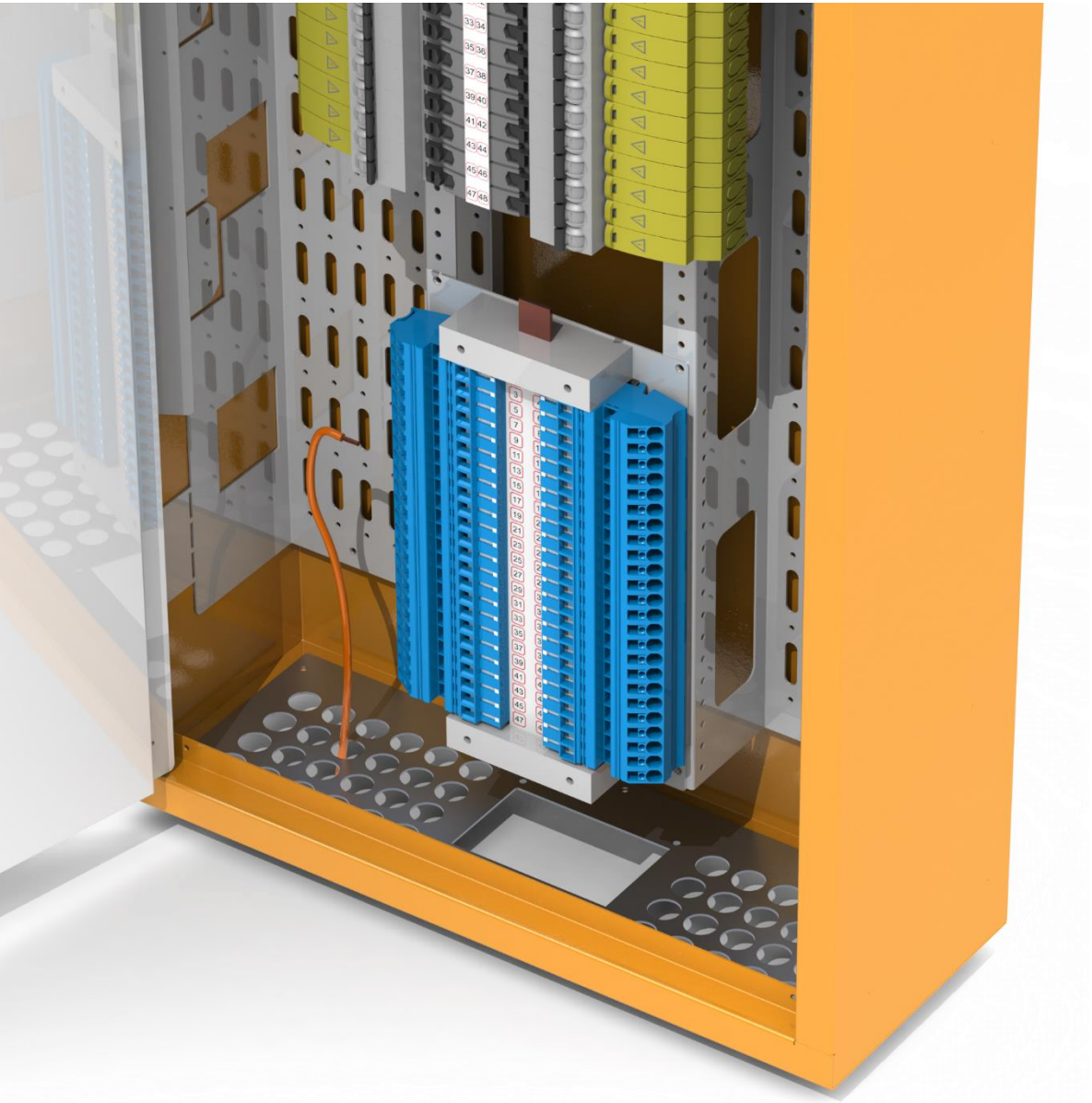
Draw cables to the required point



Draw cables to the required point

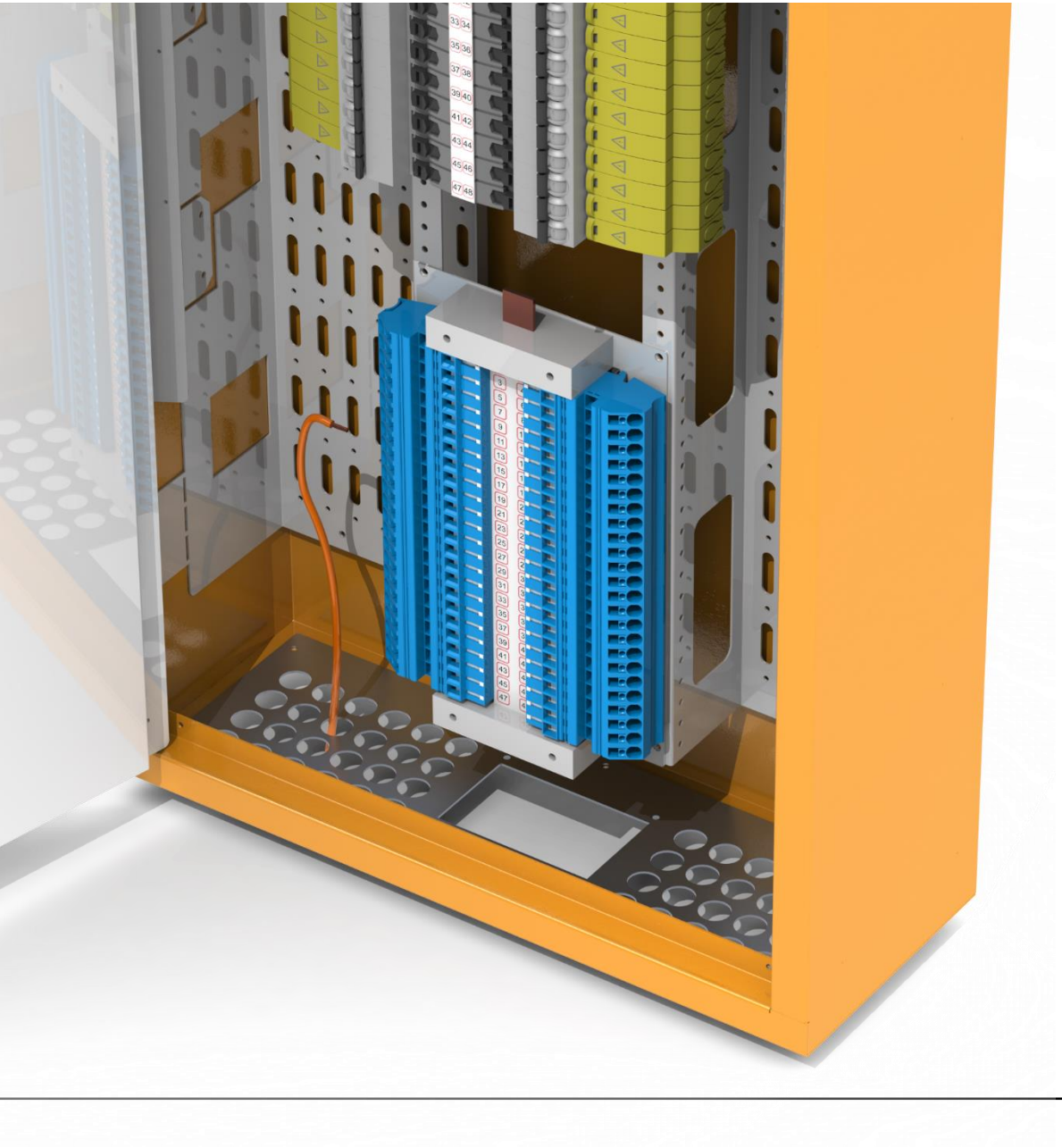


Draw cables to the required point



CABLING REQUIREMENT

Sheath of cable should be left on as long as possible before connection



CABLING REQUIREMENT

Sheath of cable should be left on in the duct and for a short space outside the duct

This assists with easy identification of which **NEUTRAL** and **EARTH** are associated with the relevant **ACTIVE**

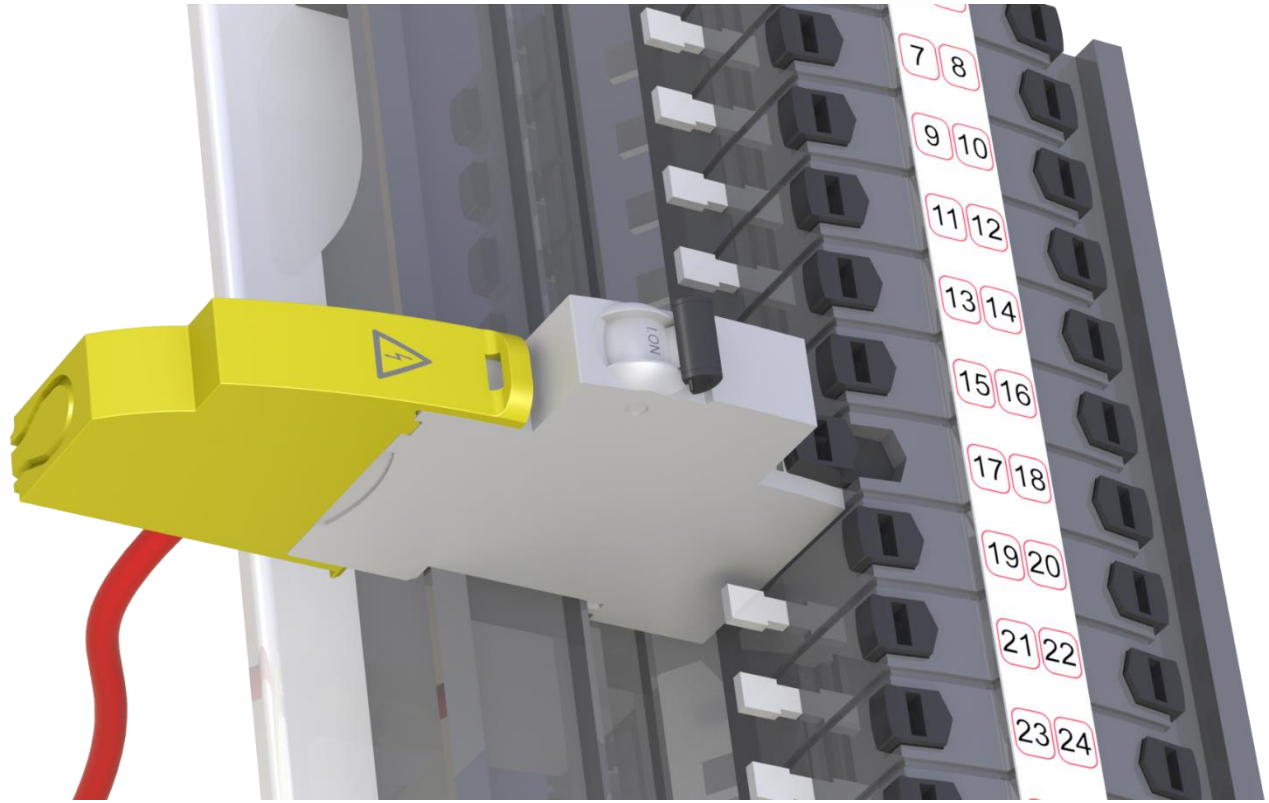
PLEASE NOTE

For clarity, the following images show only a single circuit breaker on the chassis.

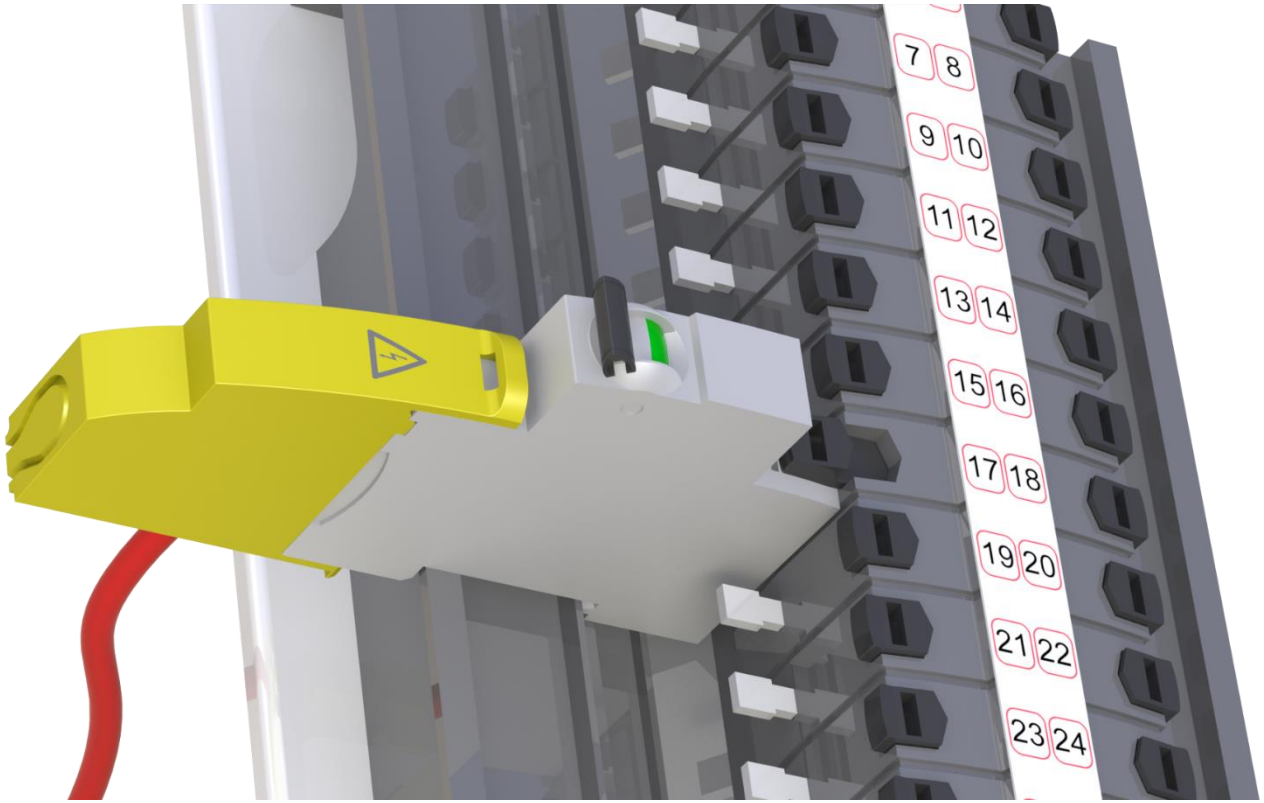
The chassis should always be fully populated with circuit breakers fitted and terminal covers in place!

STEP 3

Switch the circuit breaker toggle to the **OFF** position



- Switch the circuit breaker toggle to the **OFF** position



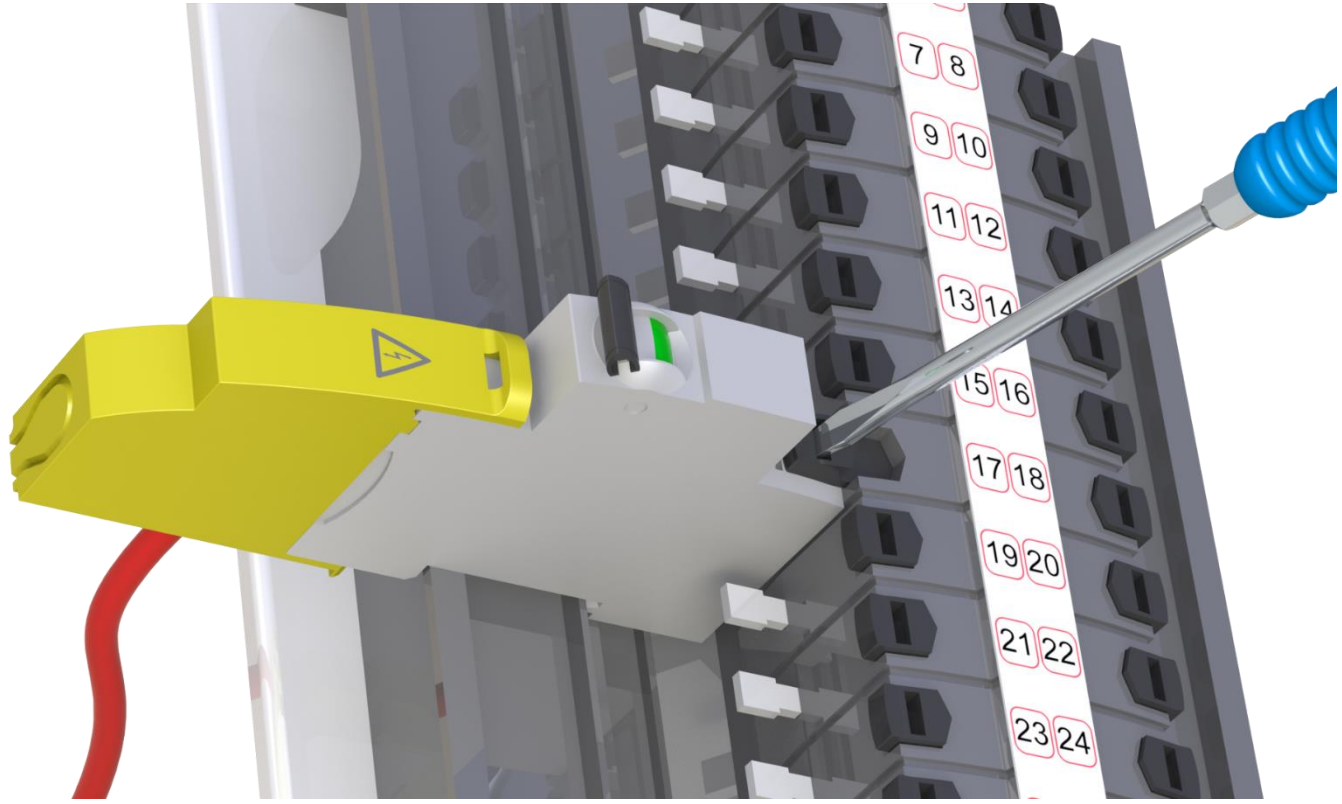
- Switch the circuit breaker toggle to the **OFF** position

STEP 4

Using the black chassis isolation slide, isolate the circuit breaker pole

WARNING

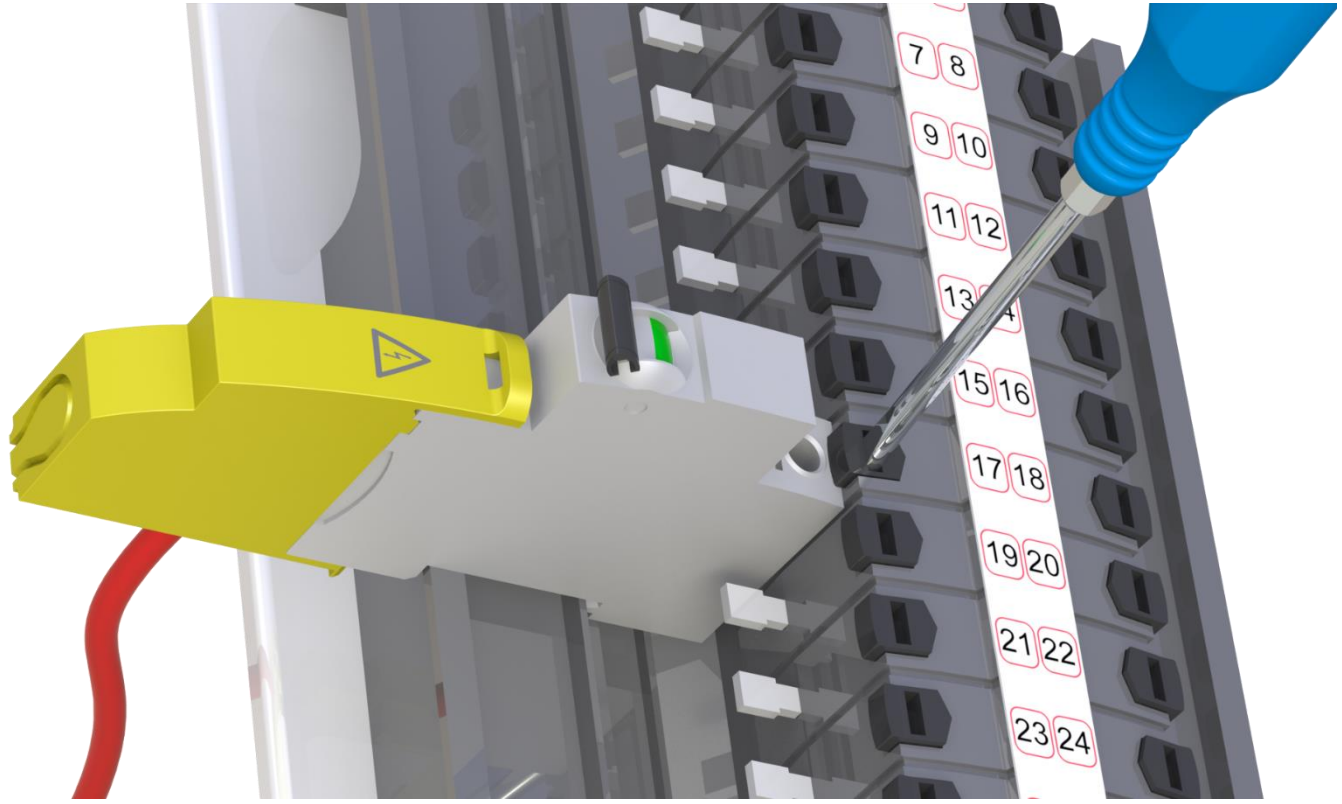
DO NOT OPERATE THE BLACK ISOLATION SLIDE WITH THE CIRCUIT BREAKER ON!



- Using the black chassis isolation slide, isolate the circuit breaker pole

WARNING

DO NOT OPERATE THE BLACK ISOLATION SLIDE WITH THE CIRCUIT BREAKER ON!



- Using the black chassis isolation slide, isolate the circuit breaker pole

WARNING

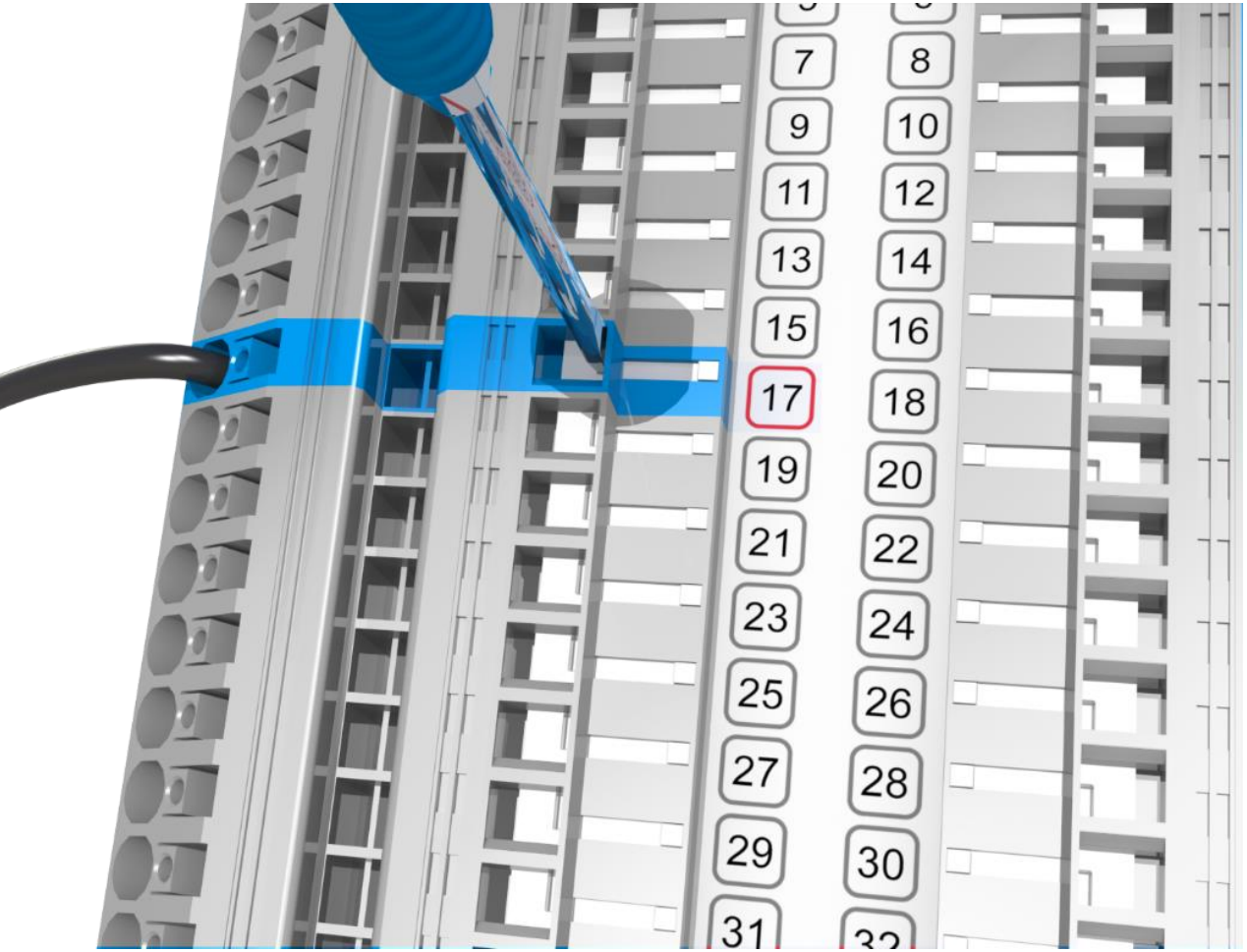
DO NOT OPERATE THE BLACK ISOLATION SLIDE WITH THE CIRCUIT BREAKER ON!

STEP 5

Using the insulated neutral slide, disconnect the **NEUTRAL** terminal from the neutral bar

WARNING

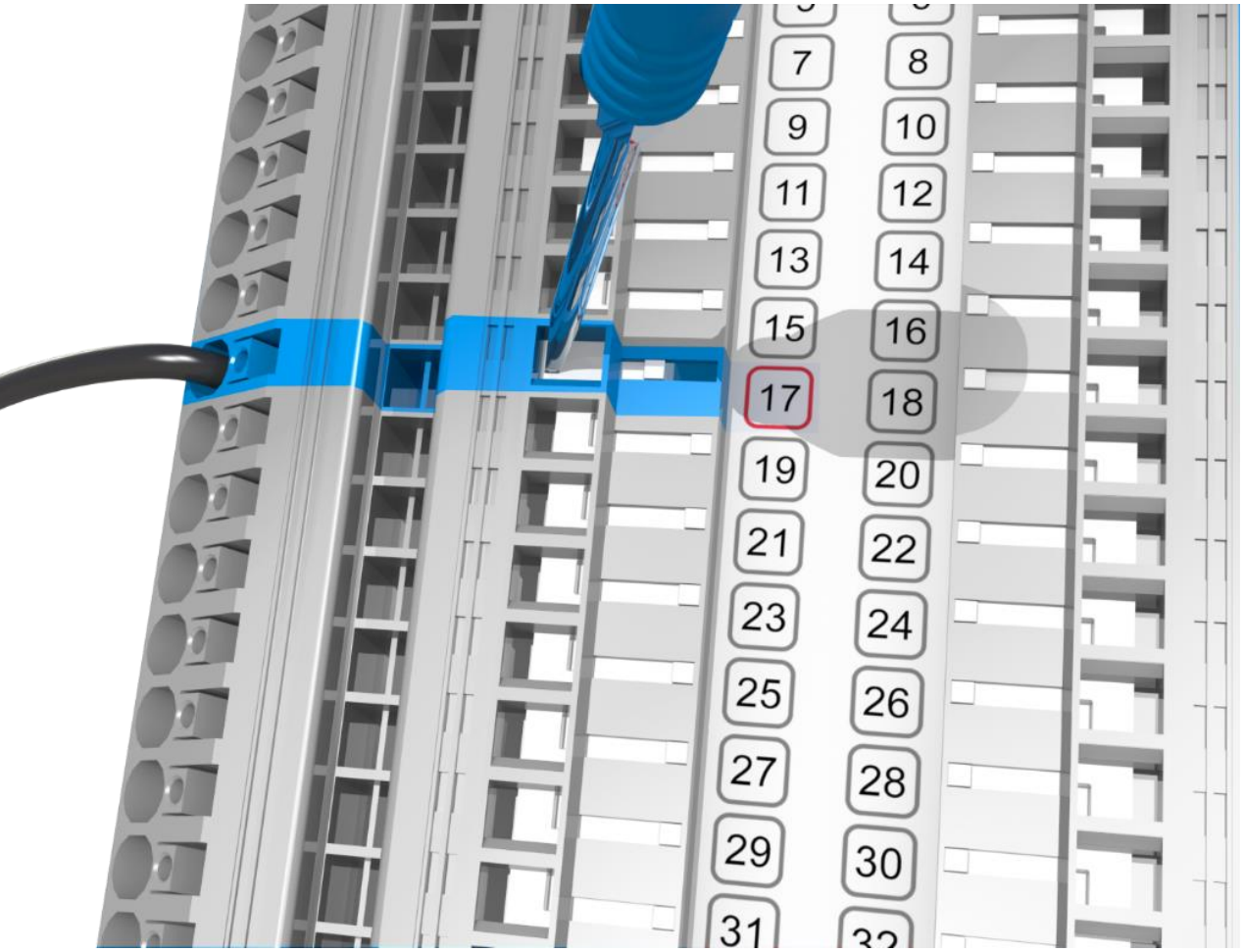
DO NOT OPERATE THE NEUTRAL SLIDE IF THE CIRCUIT BREAKER IS ON OR THE CHASSIS SLIDES ARE ENERGISED!



- Using the insulated neutral slide, disconnect the **NEUTRAL** terminal from the neutral bar

WARNING

DO NOT OPERATE THE NEUTRAL SLIDE IF THE CIRCUIT BREAKER IS ON OR THE CHASSIS SLIDES ARE ENERGISED!



- Using the insulated neutral slide, disconnect the **NEUTRAL** terminal from the neutral bar

WARNING

DO NOT OPERATE THE NEUTRAL SLIDE IF THE CIRCUIT BREAKER IS ON OR THE CHASSIS SLIDES ARE ENERGISED!

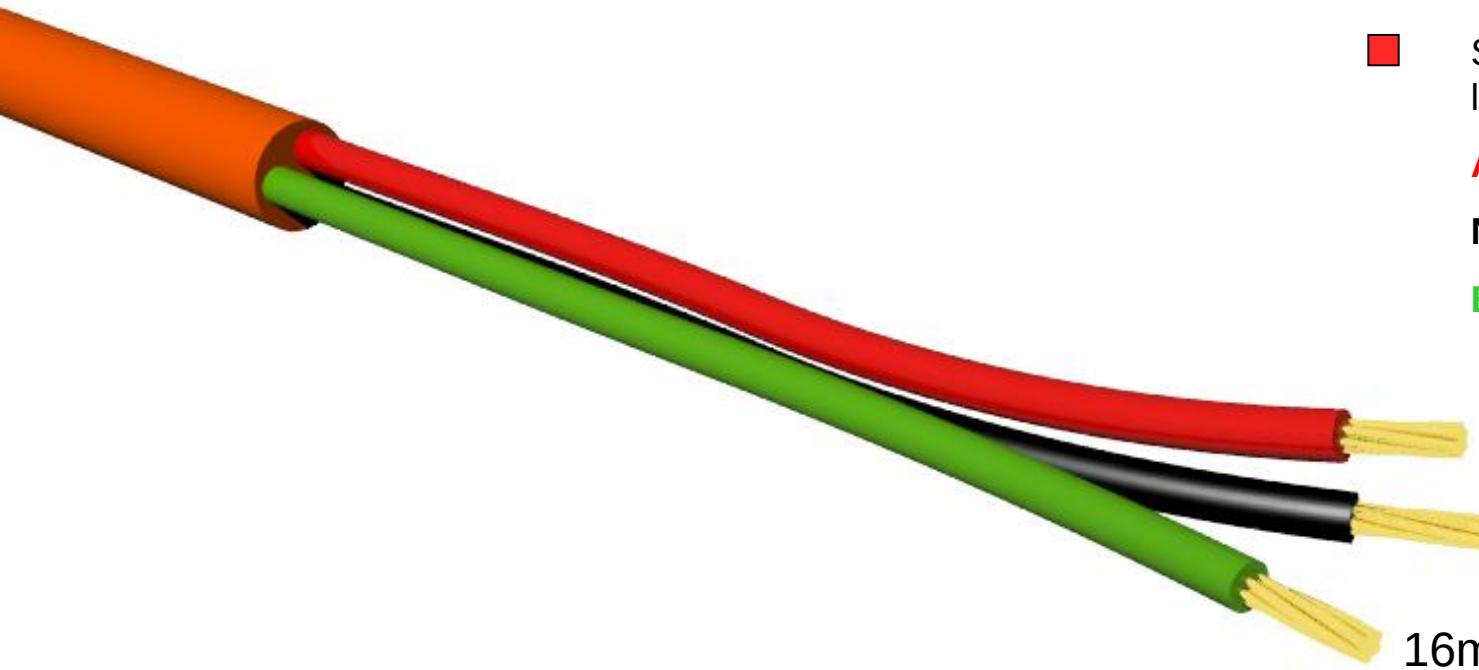
STEP 7

Strip the required lengths for

ACTIVE

NEUTRAL

EARTH



- Strip the required lengths for

ACTIVE 14mm

NEUTRAL 16mm

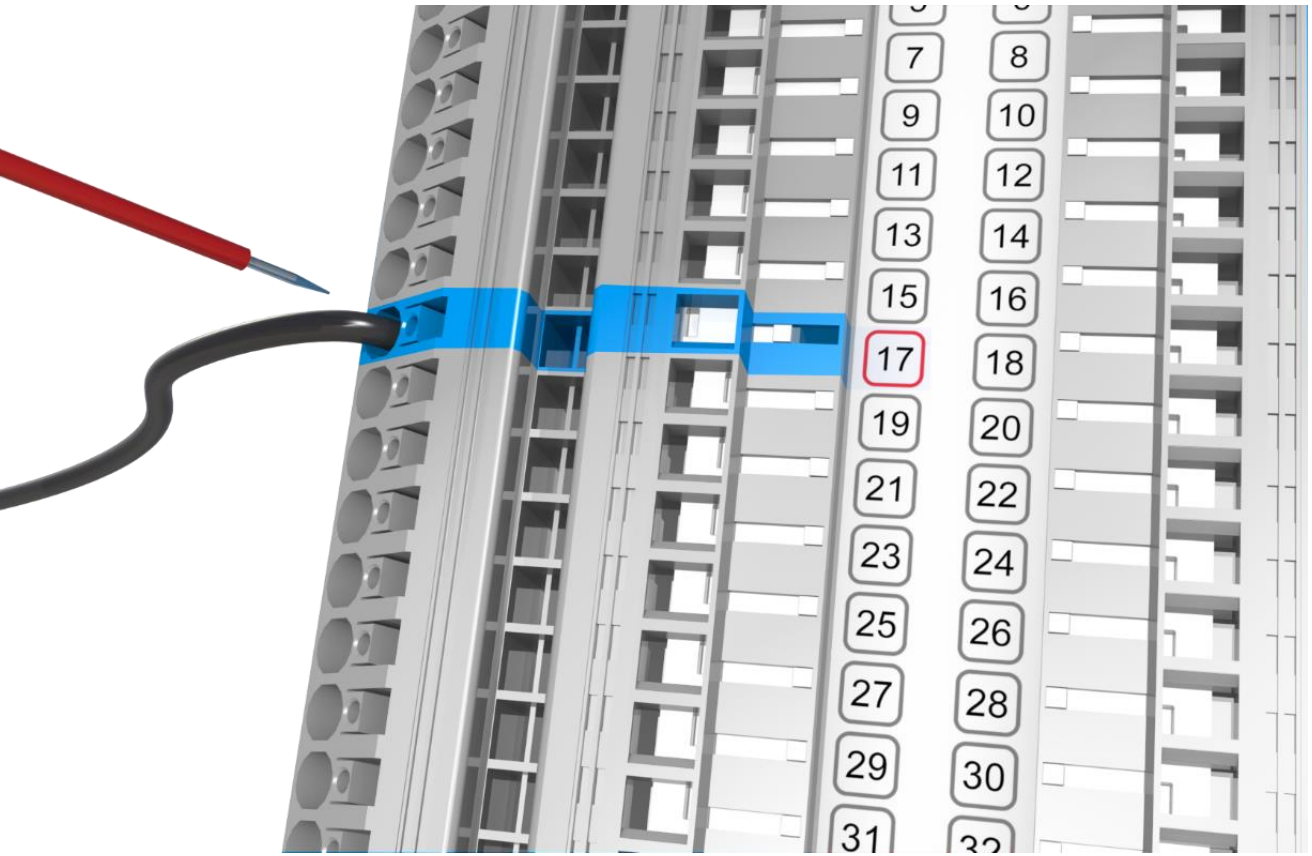
EARTH 16mm

STEP 8

Select the correct **EARTH** termination and connect to the brass link with the screw connection

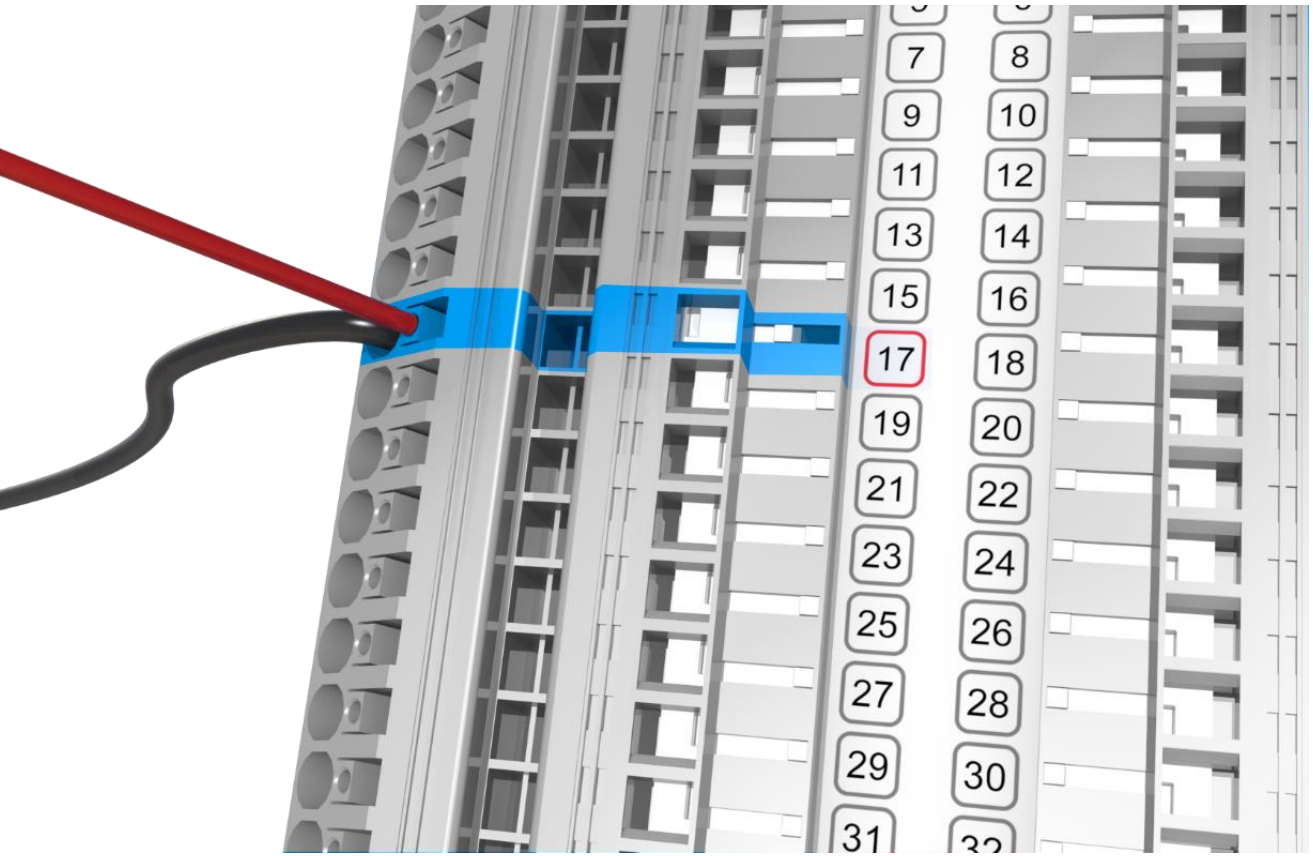
STEP 9

Test to ensure the neutral is dead.



- Use a Voltage tester to test from the neutral cable termination to earth.

  This will ensure the neutral is no longer live.

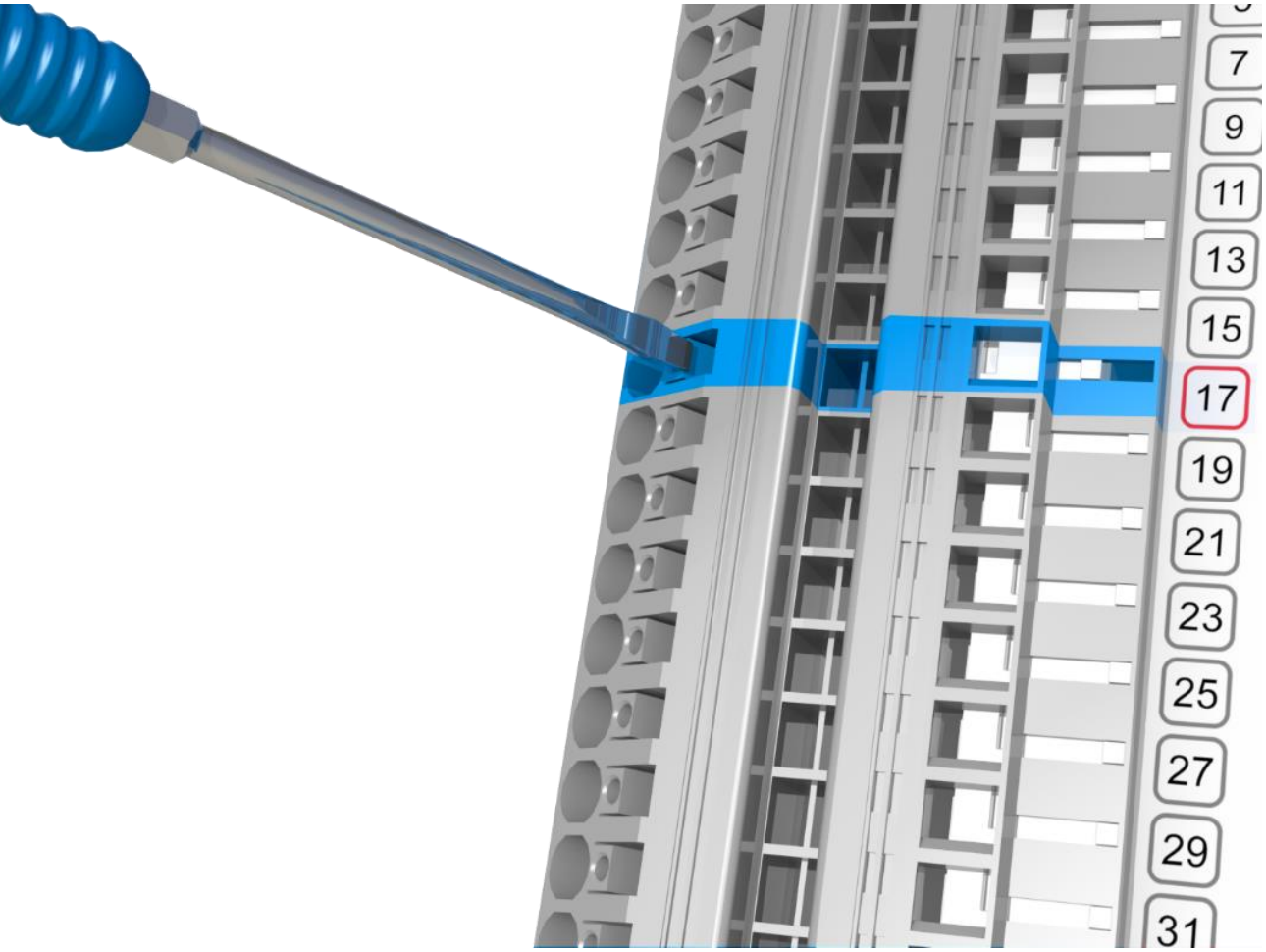


- Use a Voltage tester to test from the neutral cable termination to earth.

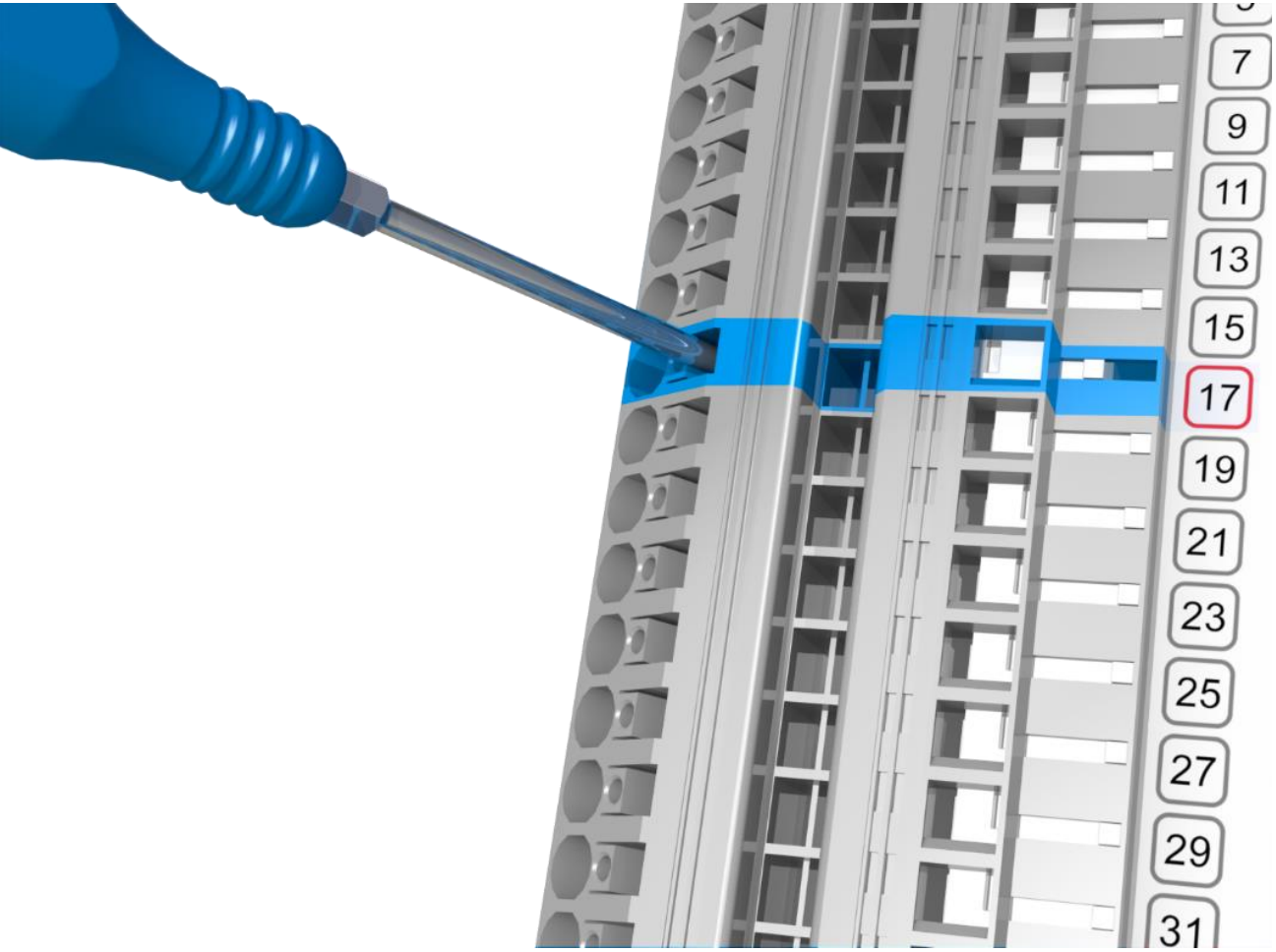
  This will ensure the neutral is no longer live.

STEP 10

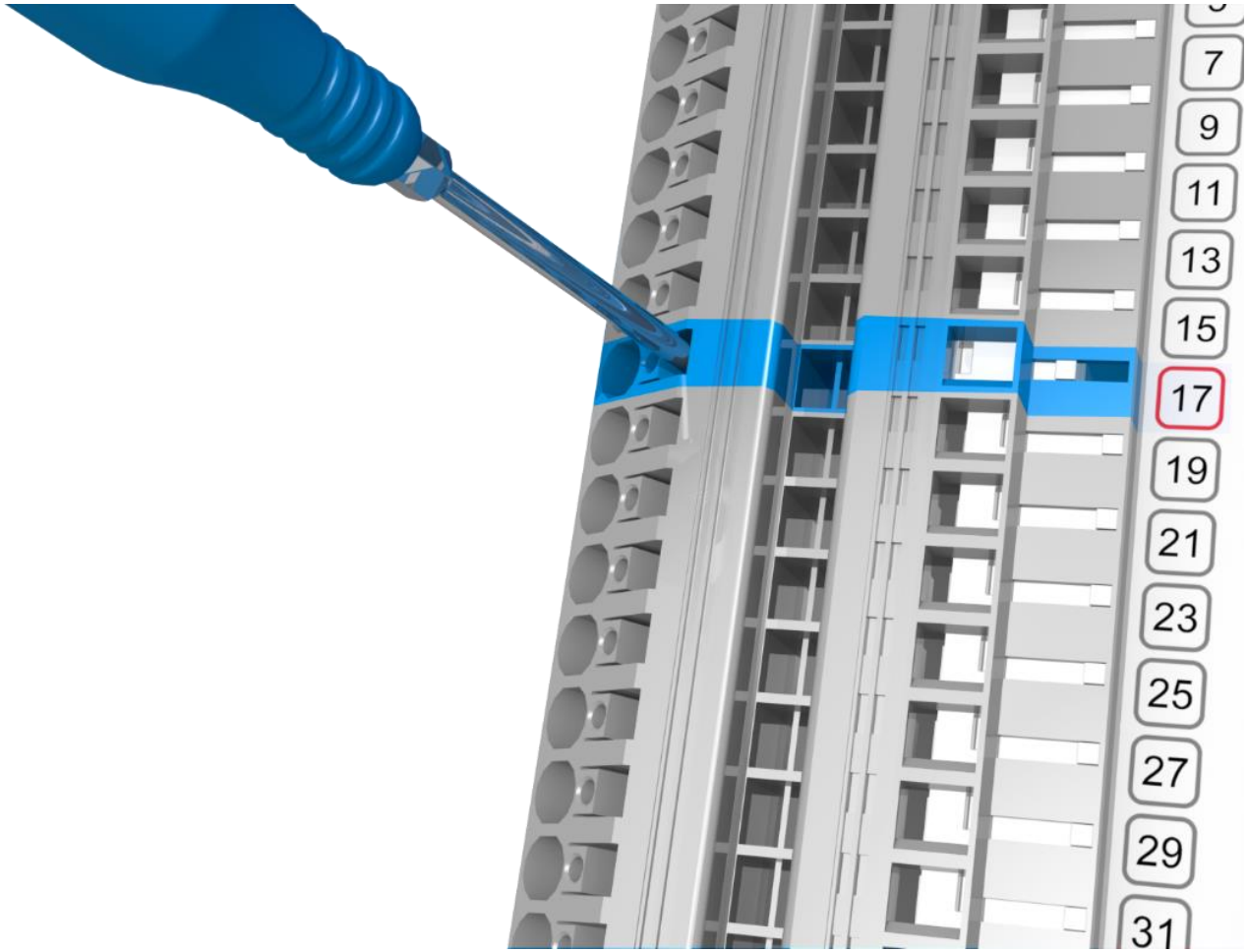
Select the correct **NEUTRAL** termination and push a terminal screwdriver into the spring clamp release



- Select the correct **NEUTRAL** termination and push a terminal screwdriver into the spring clamp release



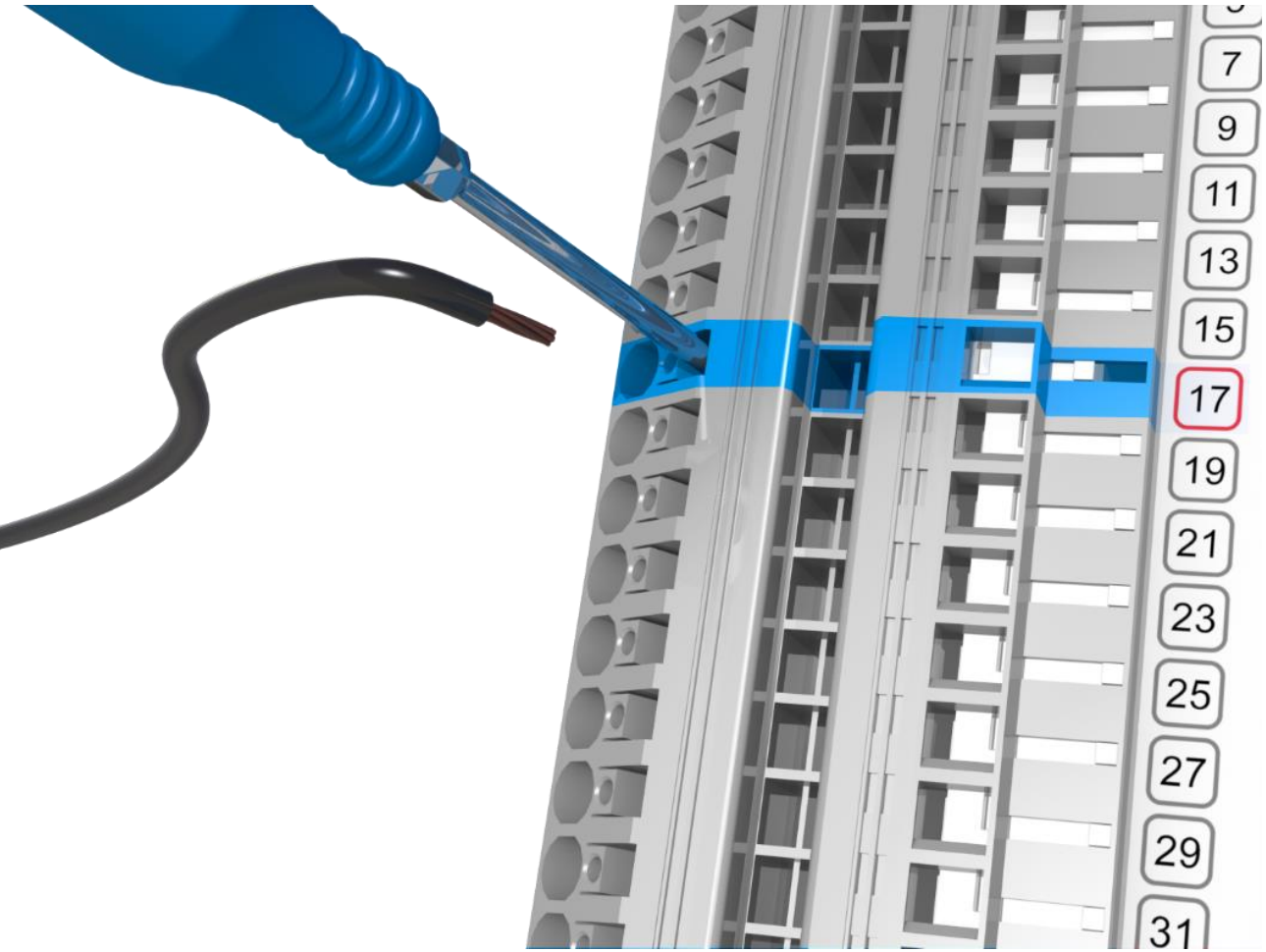
- Select the correct **NEUTRAL** termination and push a terminal screwdriver into the spring clamp release



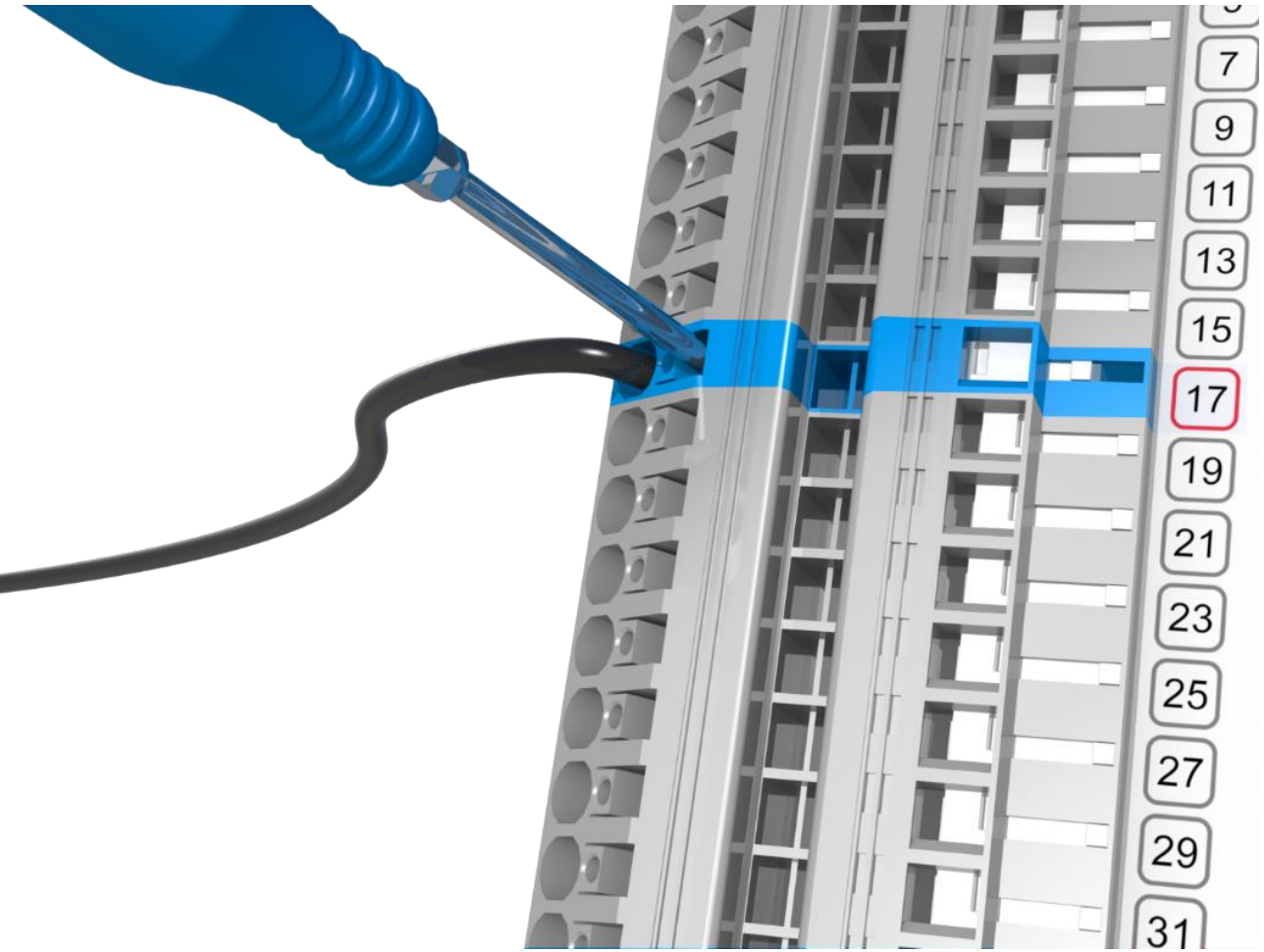
- Select the correct **NEUTRAL** termination and push a terminal screwdriver into the spring clamp release

STEP 11

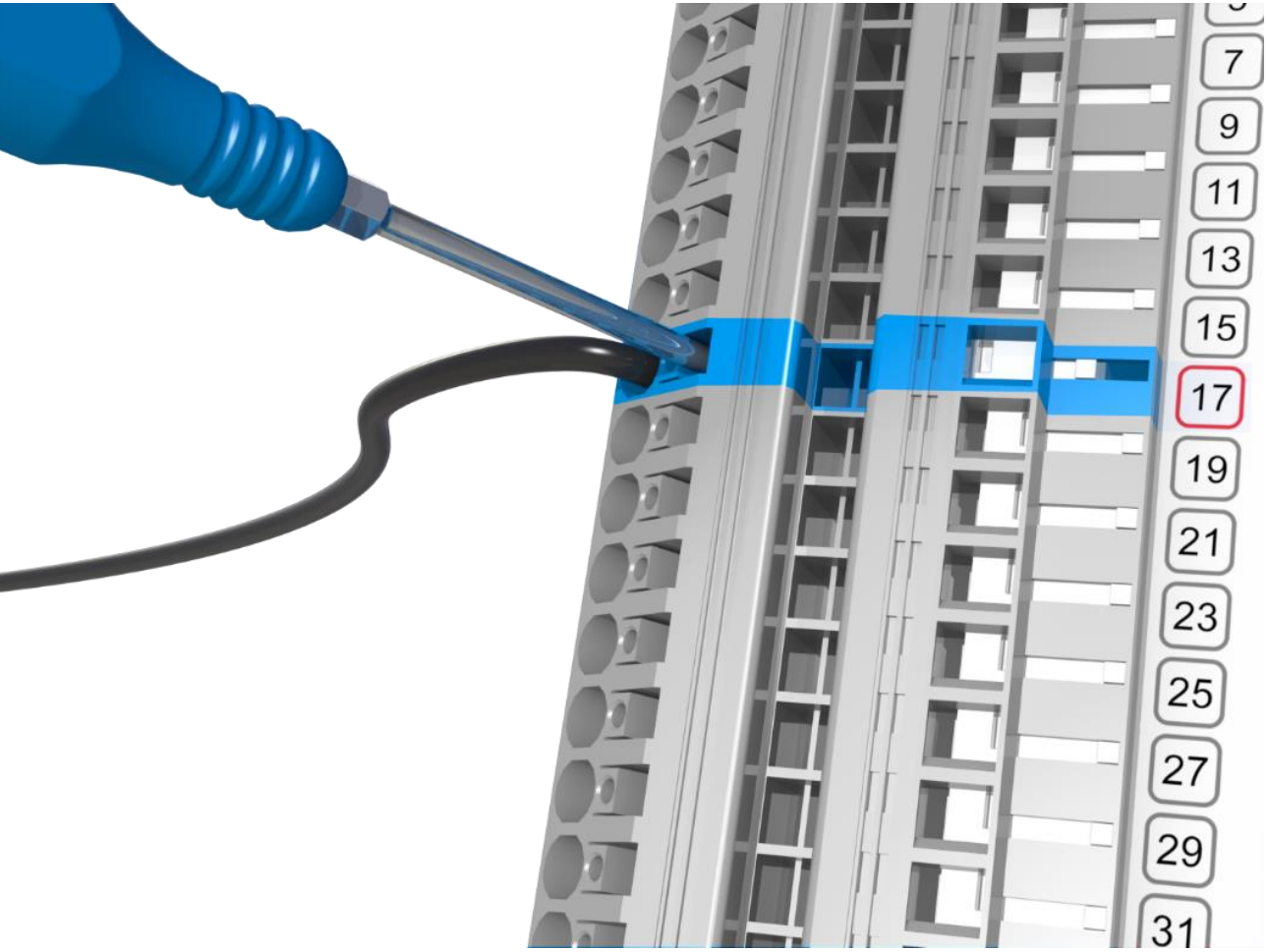
Insert the stripped section of the **NEUTRAL** conductor…



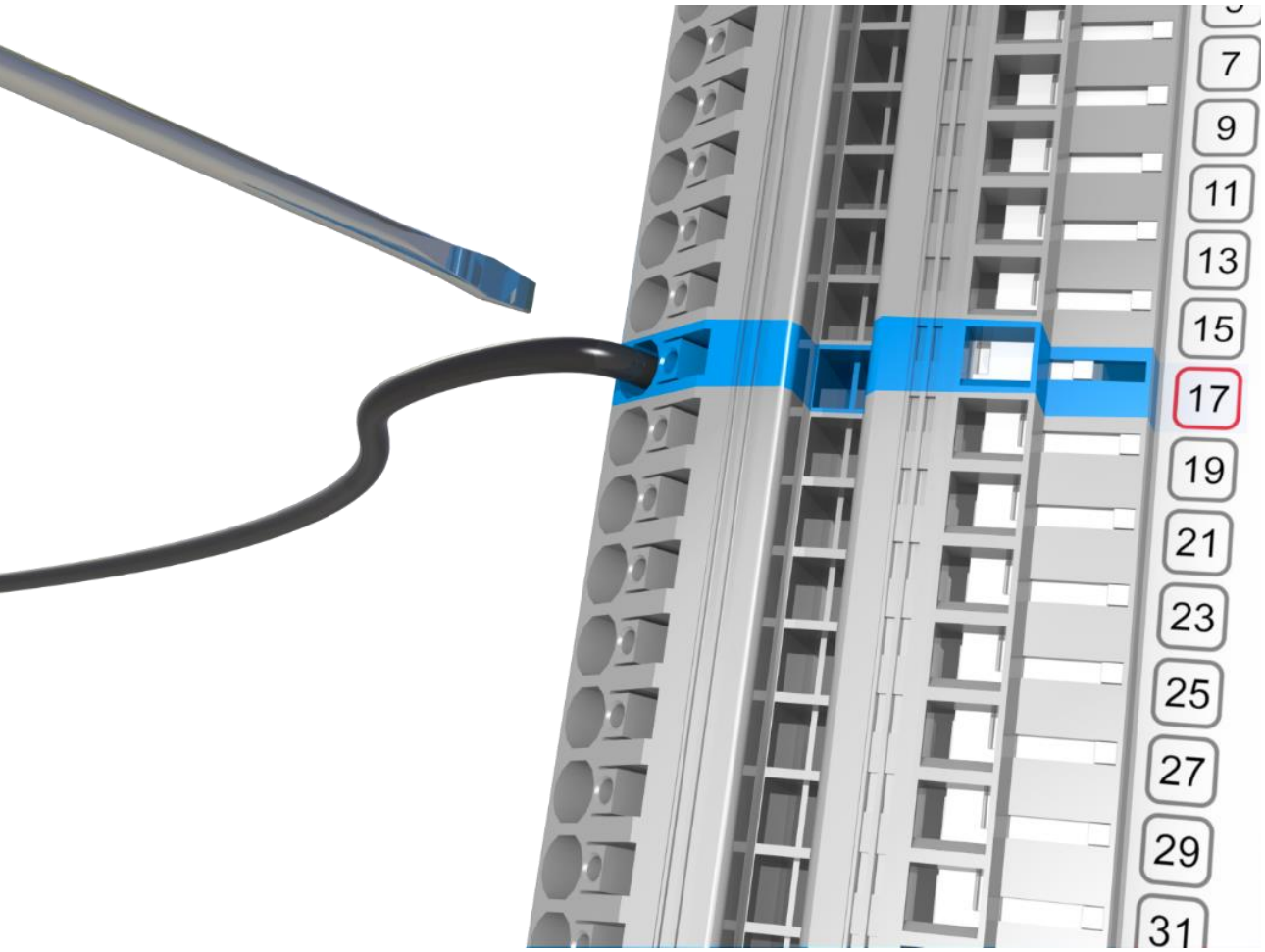
- Insert the stripped section of the **NEUTRAL** conductor…



- Insert the stripped section of the **NEUTRAL** conductor…



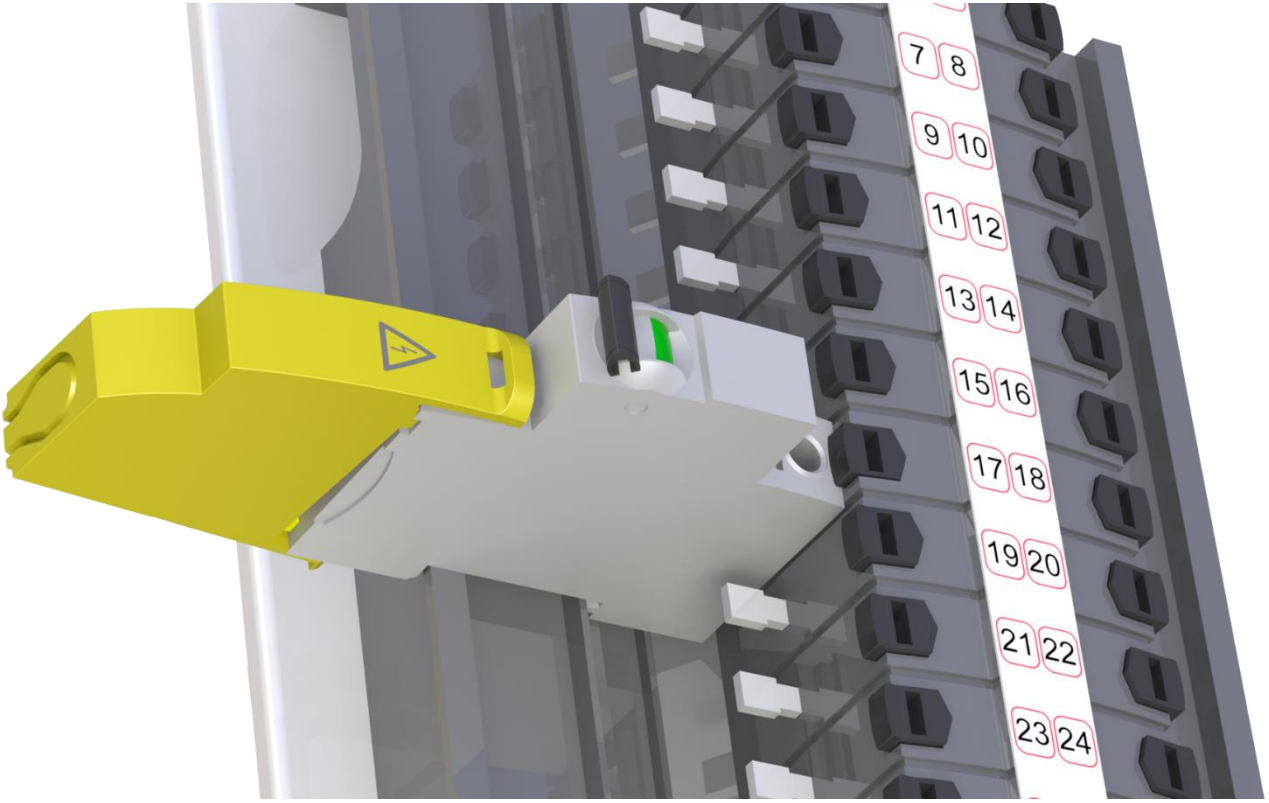
- and release the screwdriver, clamping the **NEUTRAL** in position



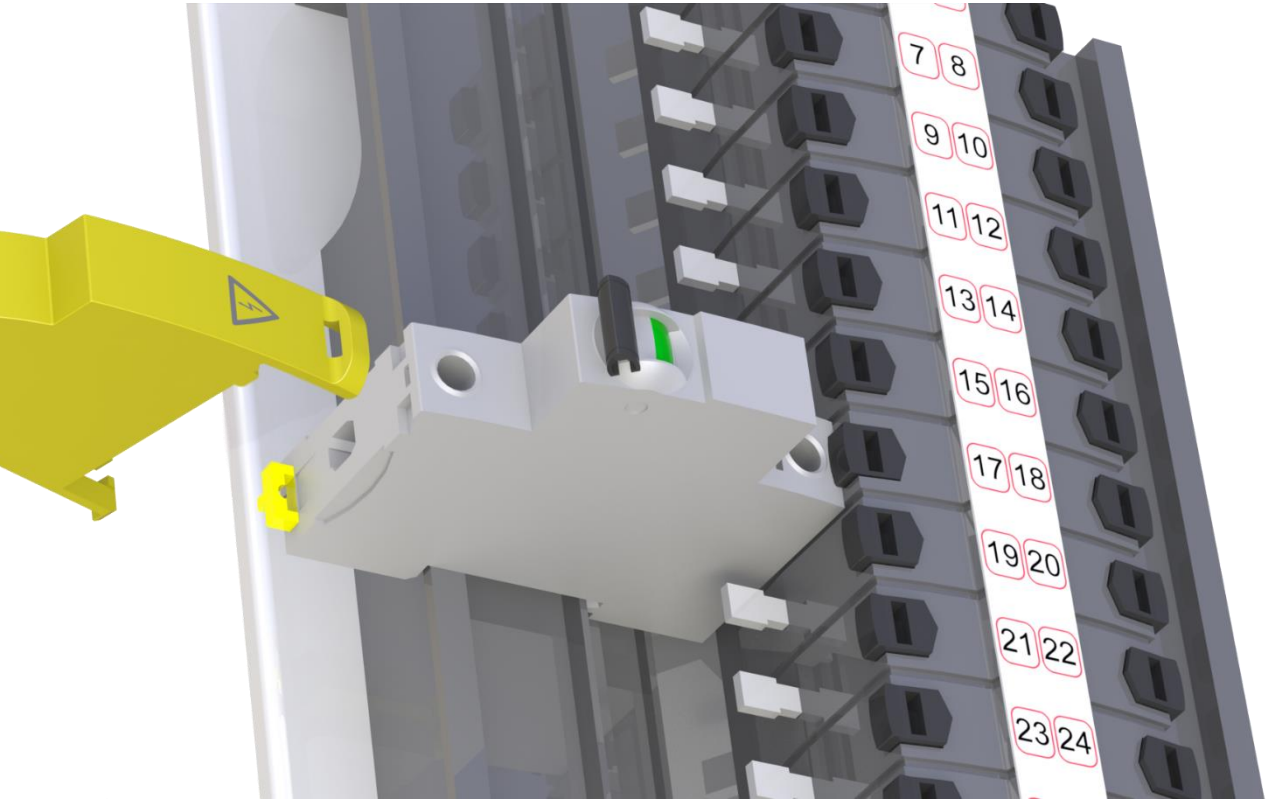
- and release the screwdriver, clamping the **NEUTRAL** in position

STEP 12

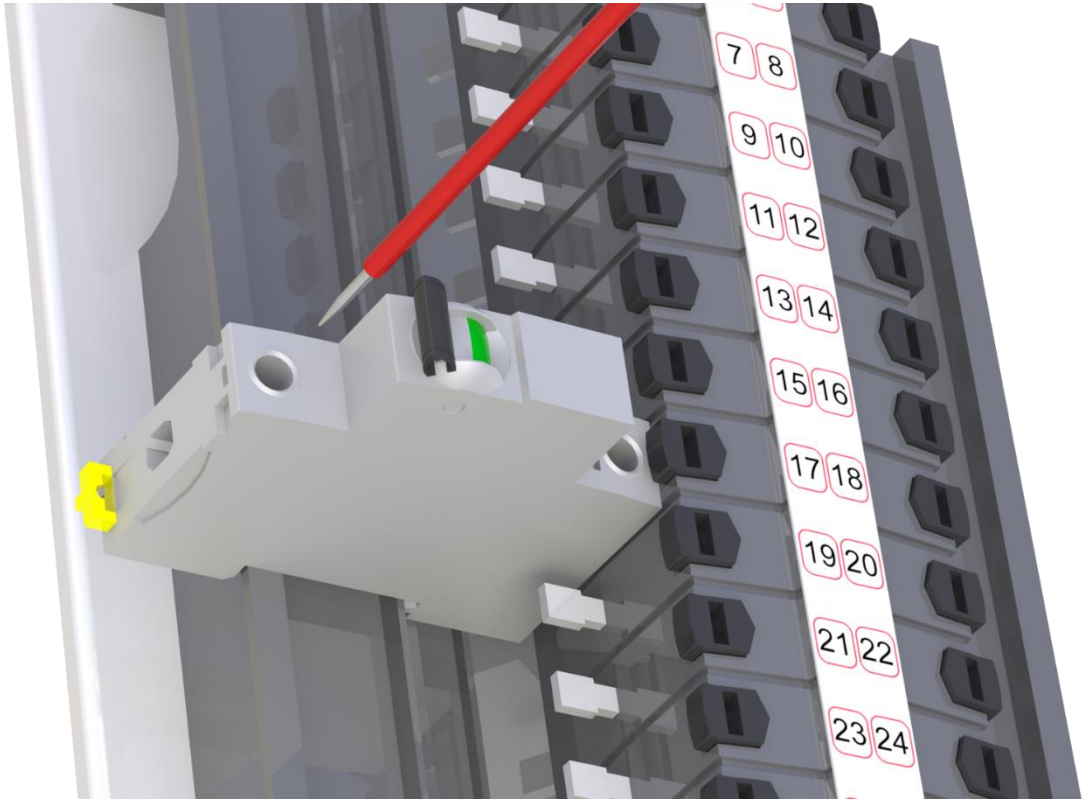
Remove the circuit breaker terminal cover



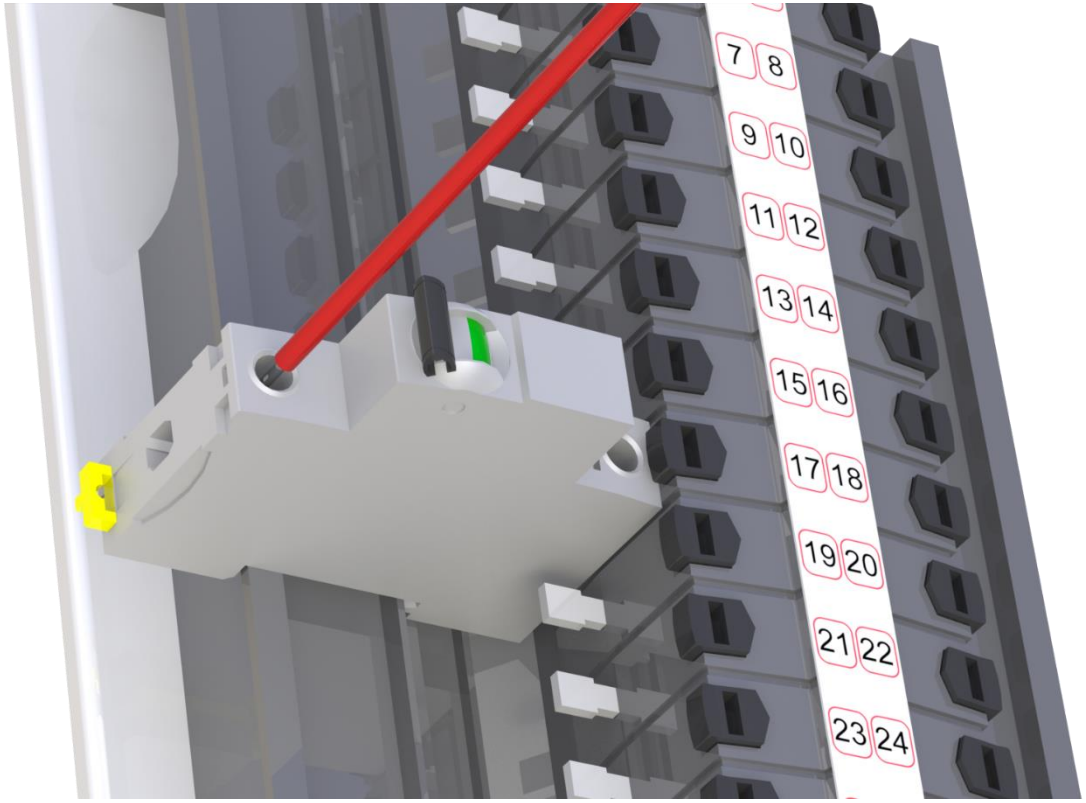
- Remove the circuit breaker terminal cover



- Remove the circuit breaker terminal cover



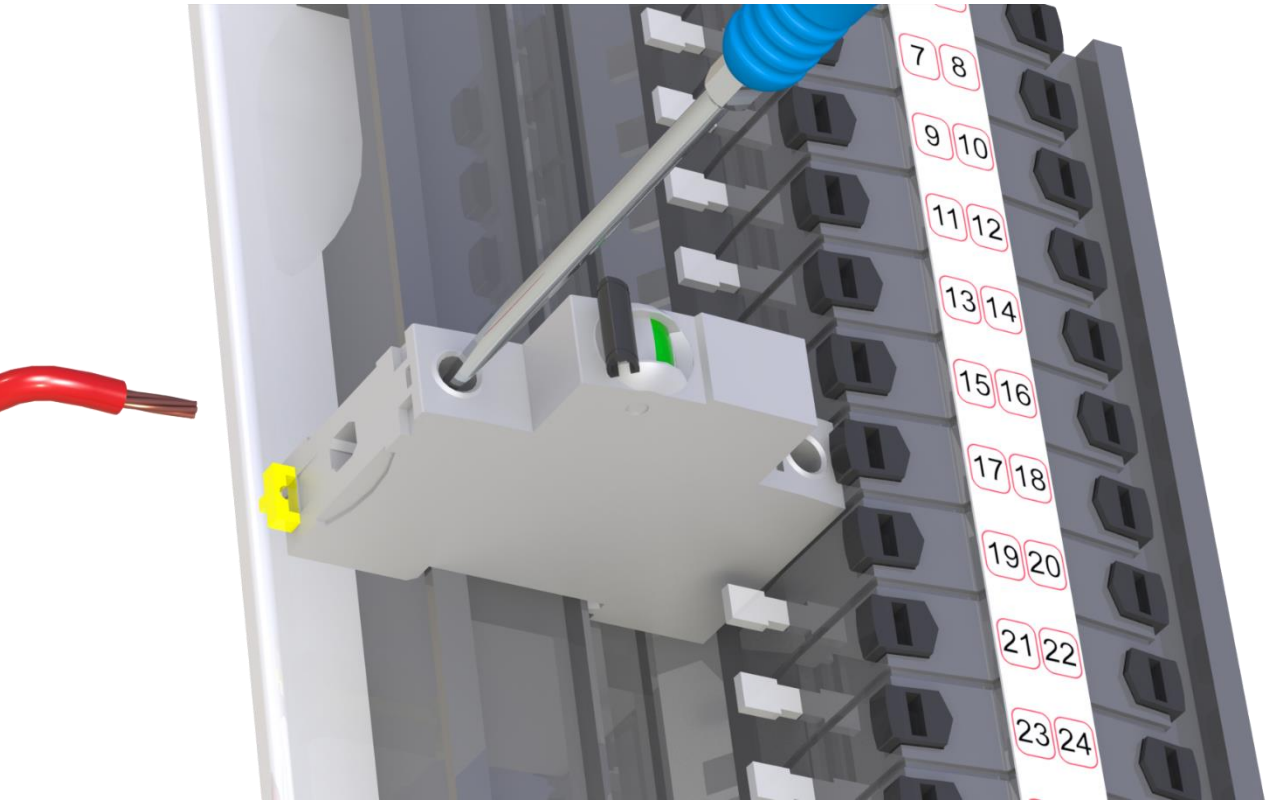
- Test the terminal to ensure there is no voltage present.



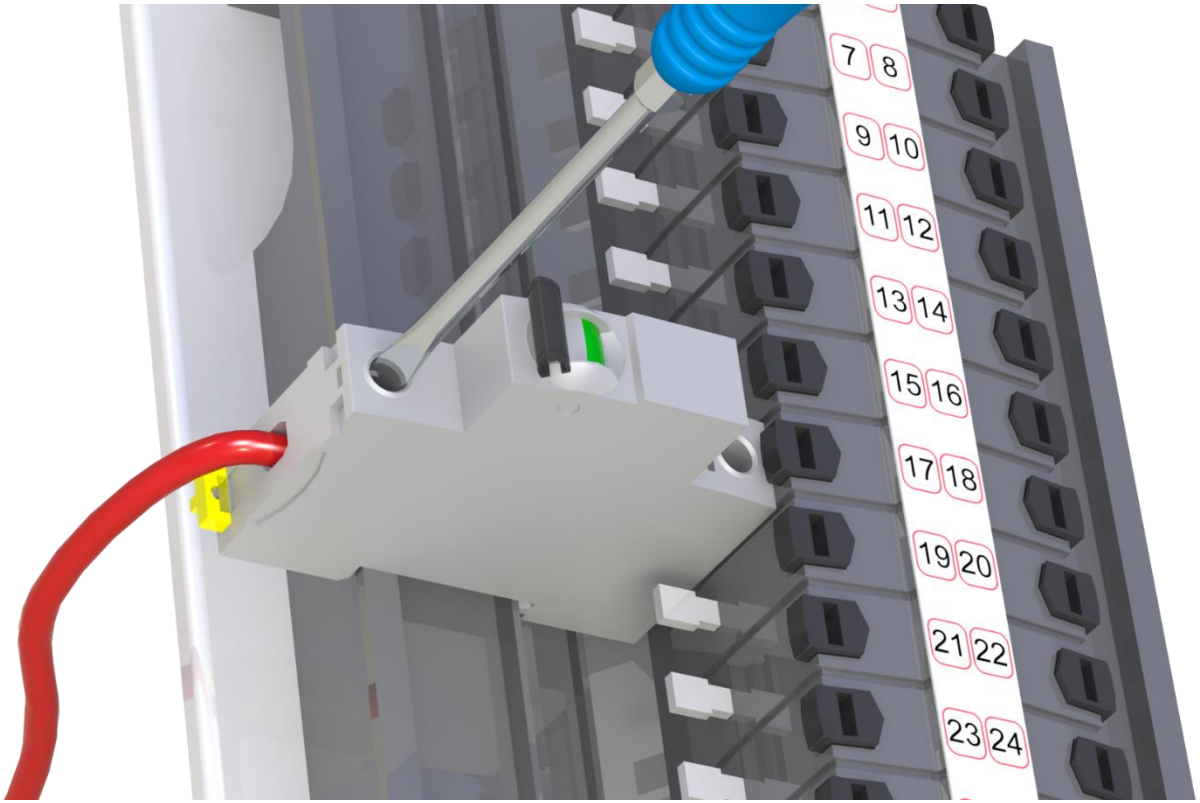
- Test the terminal to ensure there is no voltage present.

STEP 13

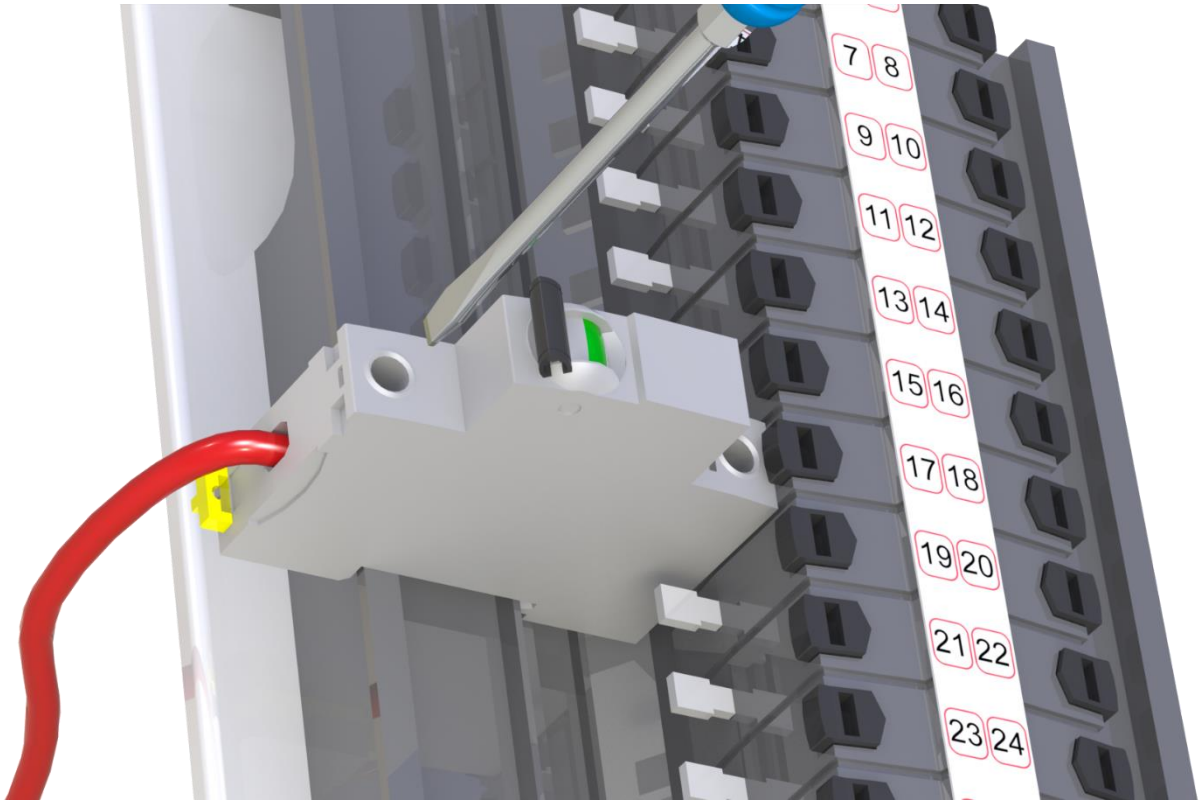
Connect the **ACTIVE** cable to the circuit breaker and check the terminal is done up securely



- Connect the **ACTIVE** cable to the circuit breaker and check the terminal is done up securely



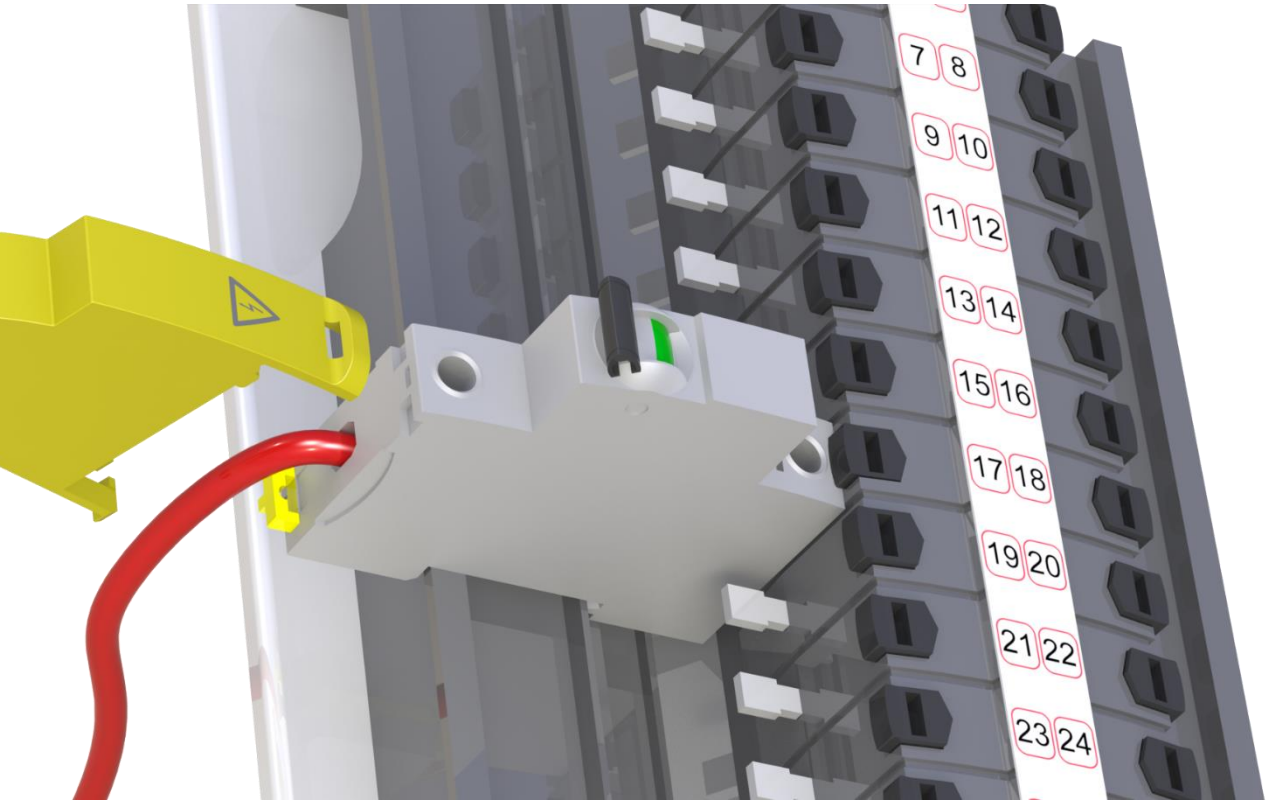
- Connect the **ACTIVE** cable to the circuit breaker and check the terminal is done up securely



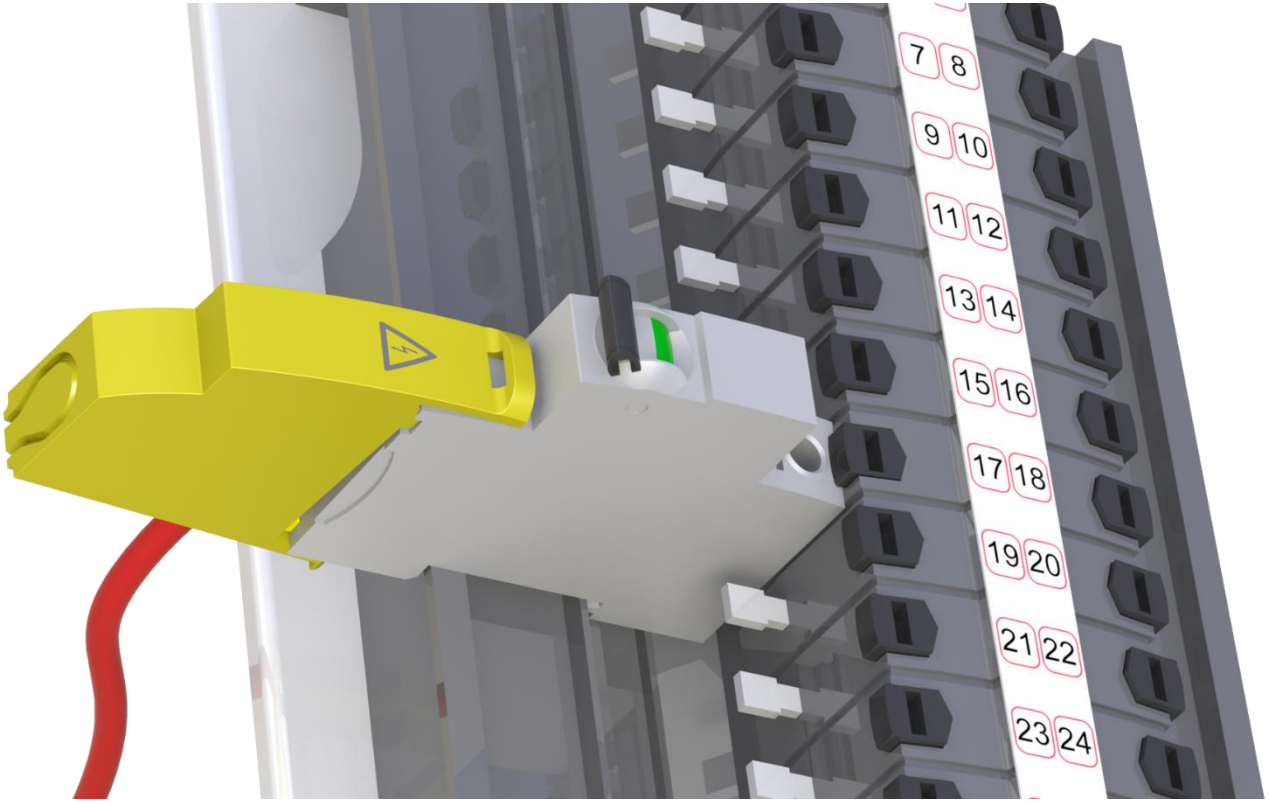
- Connect the **ACTIVE** cable to the circuit breaker and check the terminal is done up securely

STEP 14

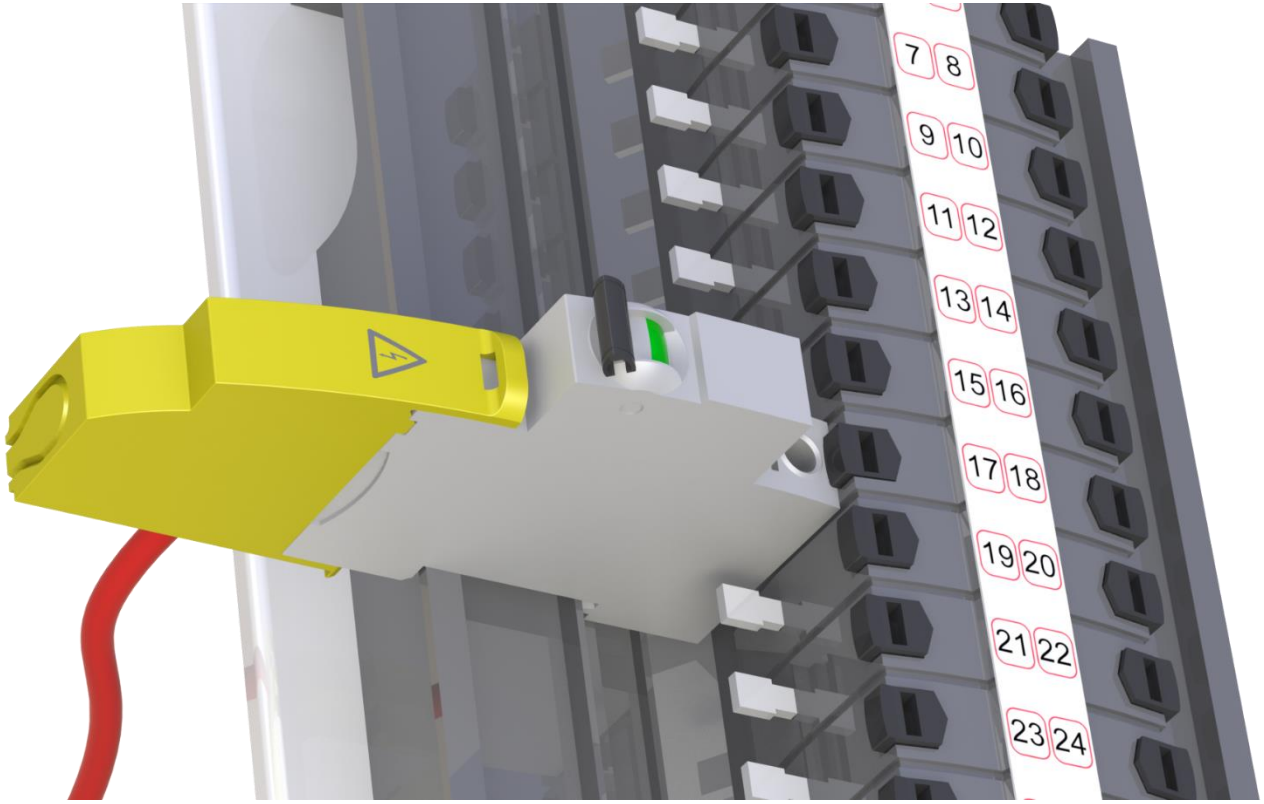
Replace the circuit breaker terminal cover



- Replace the circuit breaker terminal cover



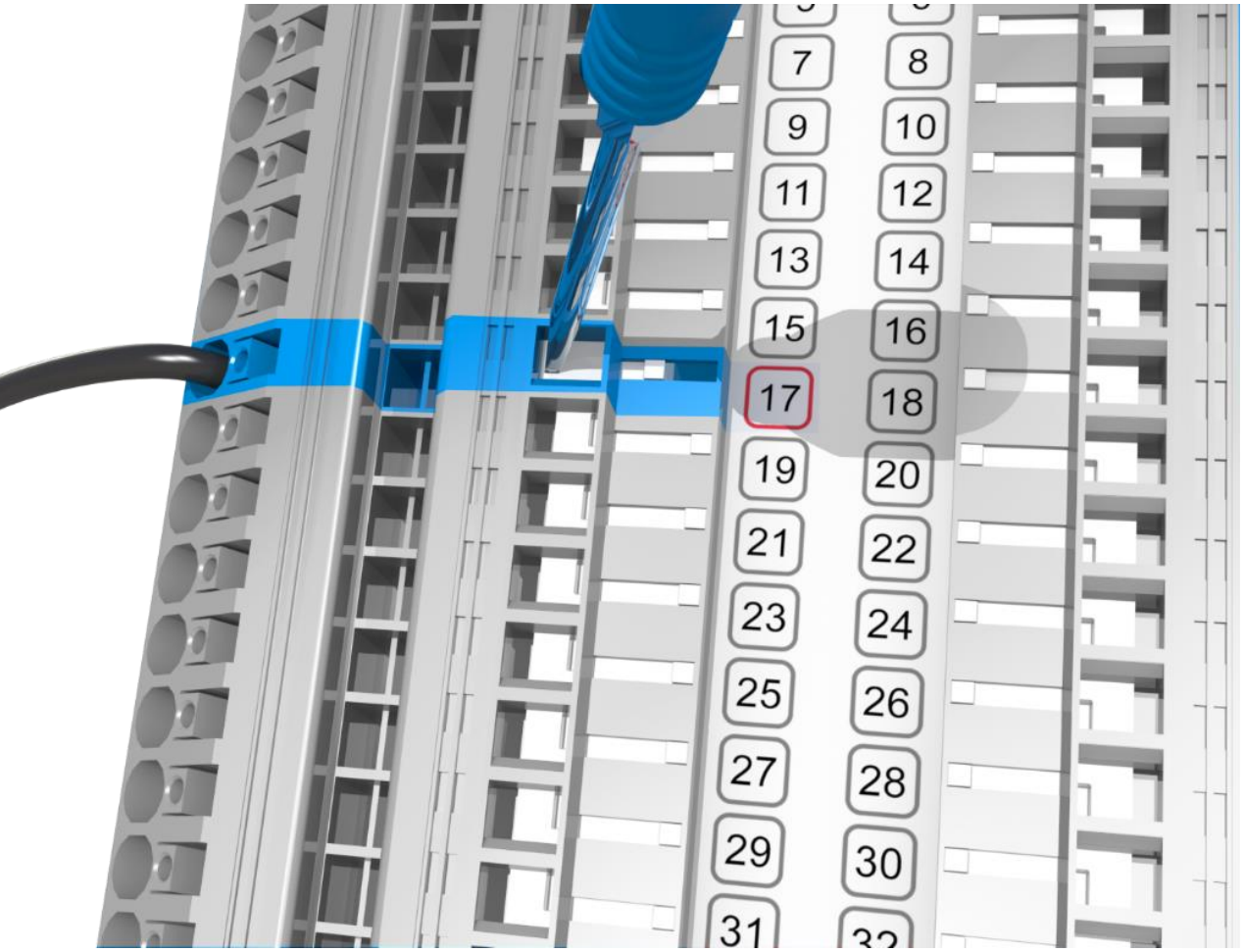
- Replace the circuit breaker terminal cover



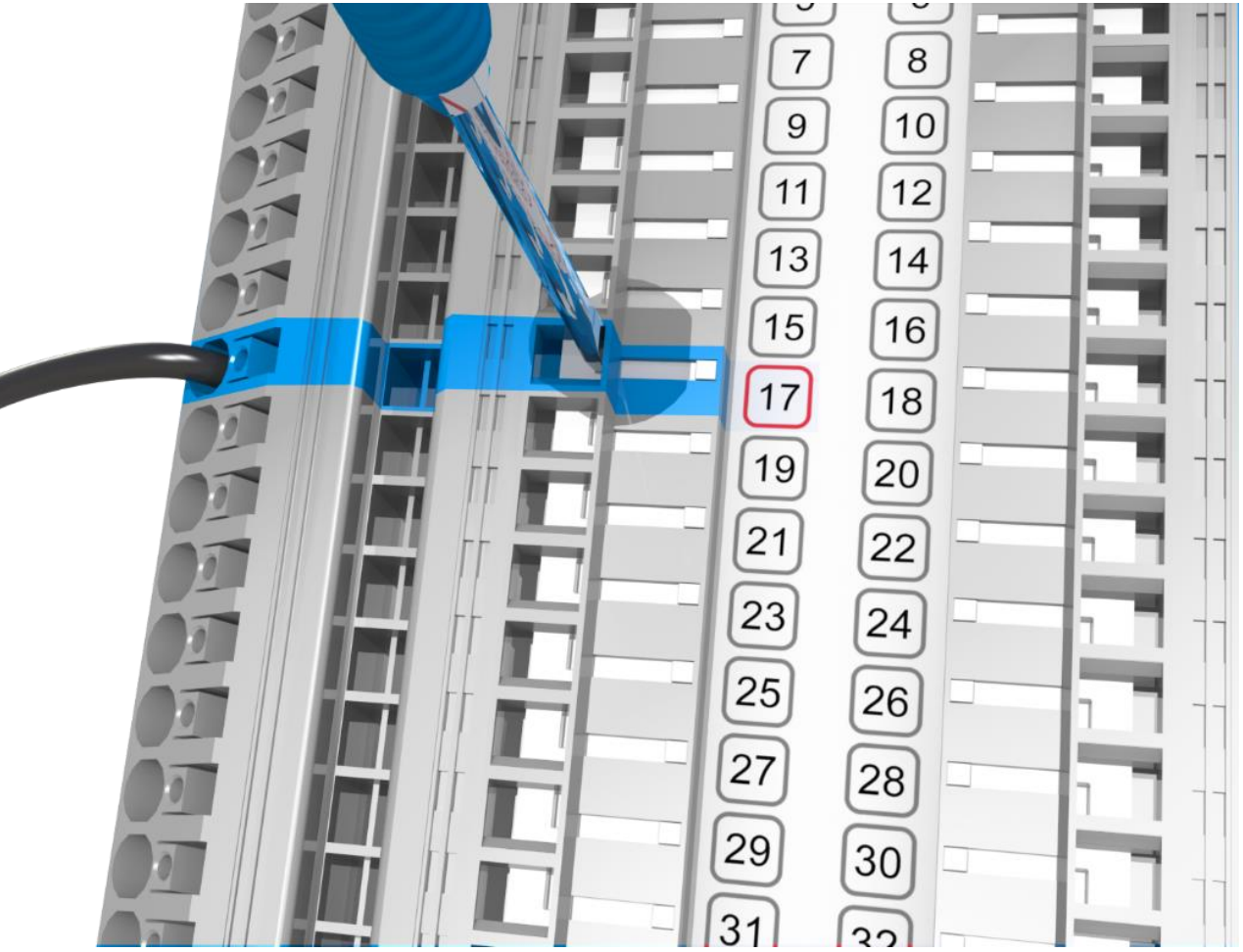
Replace the circuit breaker terminal cover

STEP 15

Re-connect the insulated neutral slide to the **NEUTRAL** bar and ensure it is fully extended into position!



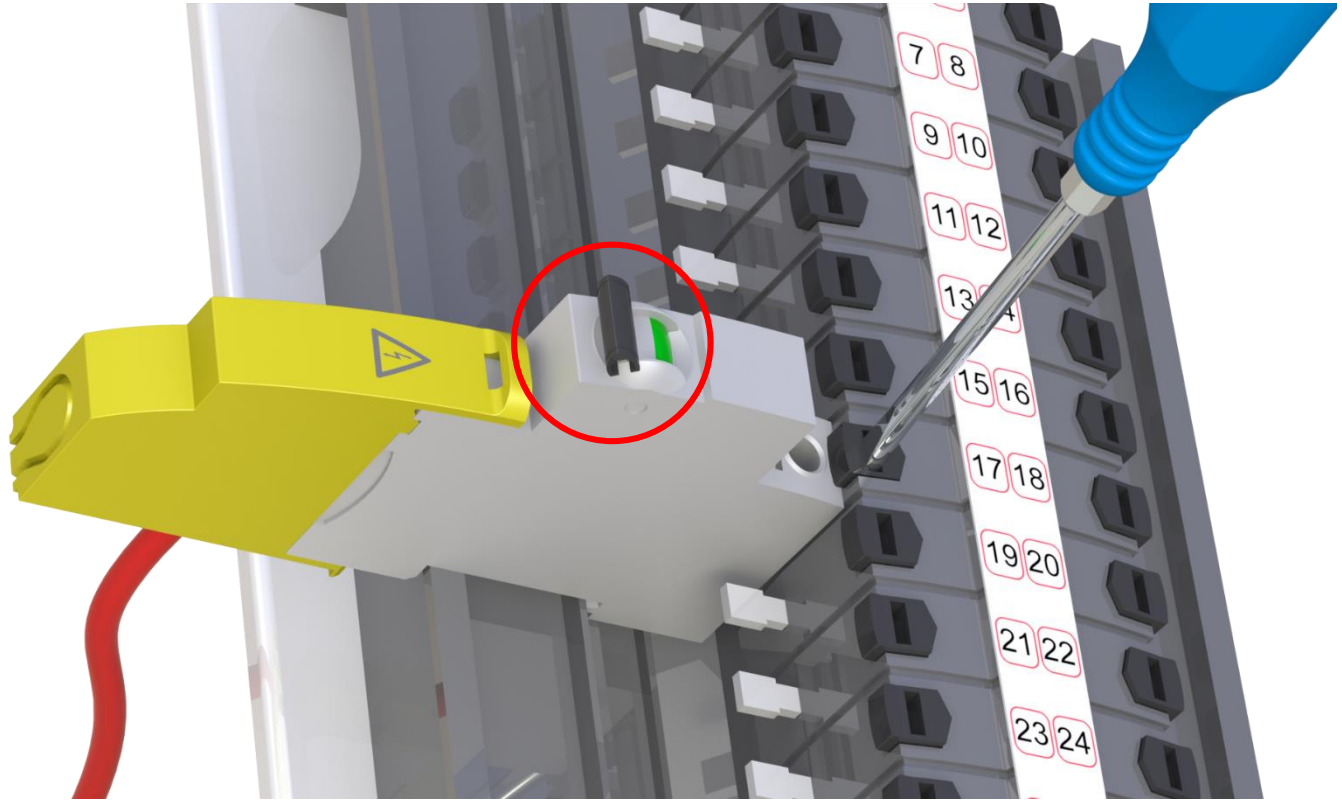
- Re-connect the insulated neutral slide to the **NEUTRAL** bar and ensure it is fully extended into position!



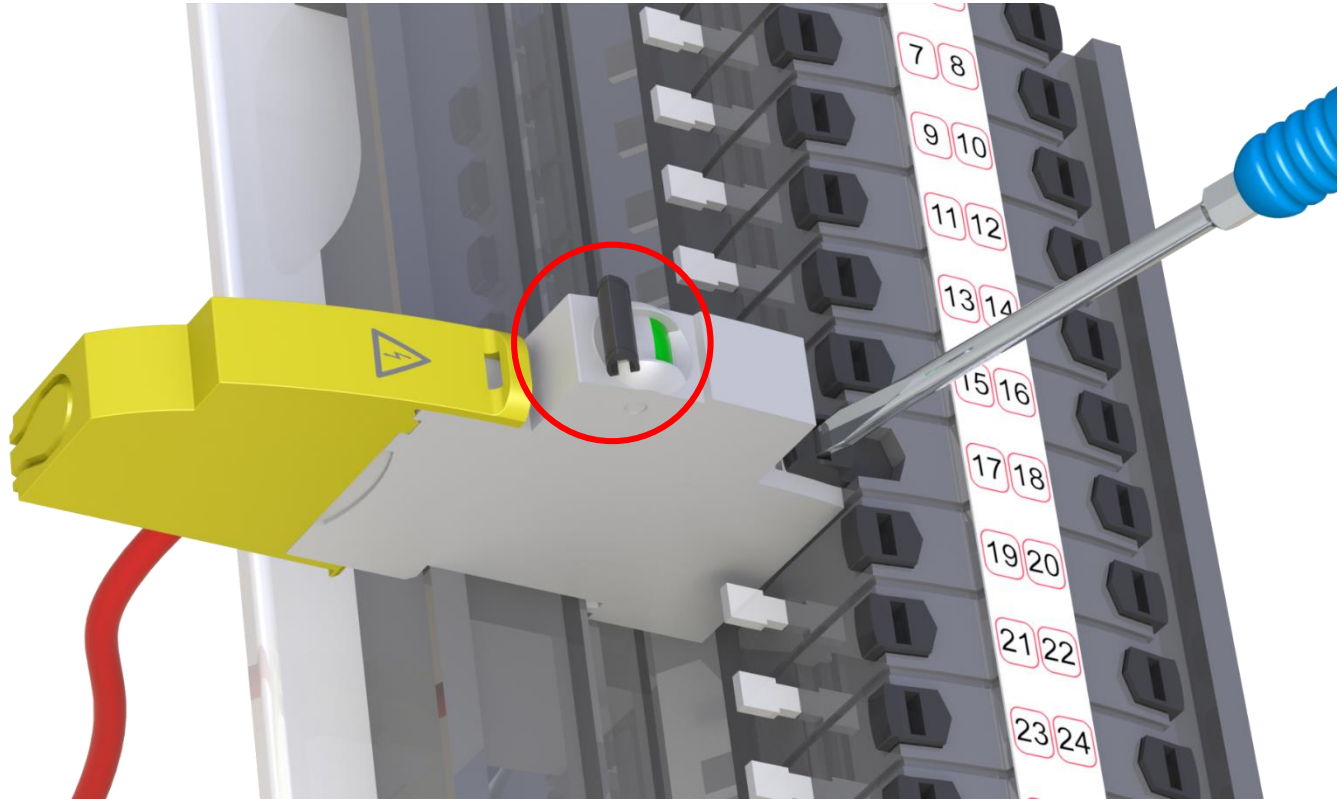
- Re-connect the insulated neutral slide to the **NEUTRAL** bar and ensure it is fully extended into position!

STEP 16

With the circuit breaker still in the **OFF** position, operate the black isolation slide so it is fully pushed towards the circuit breaker and re-check



- With the circuit breaker still in the **OFF** position, operate the black isolation slide so it is fully pushed towards the circuit breaker and re-check



- With the circuit breaker still in the **OFF** position, operate the black isolation slide so it is fully pushed towards the circuit breaker and re-check

STEP 17

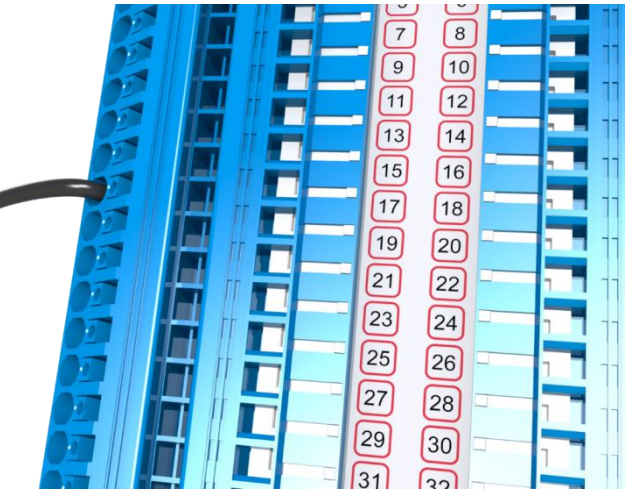
You will now have the

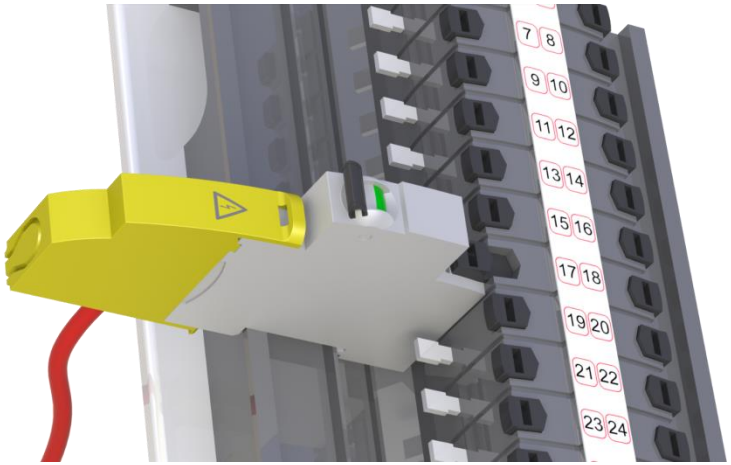
ACTIVE

EARTH

NEUTRAL

connected





- You will now have the
- **ACTIVE**
- **EARTH**
- **NEUTRAL**
- connected

STEP 18

Ensure the following:

- **no tools are left in the switchboard**

and that

- **all connections are sound**

STEP 18

Ensure the following:

- [x] **no tools are left in the switchboard**

and that

- [ ] **all connections are sound**

STEP 18

Ensure the following:

- ☑ **no tools are left in the switchboard**

and that

- ☑ **all connections are sound**

STEP 19

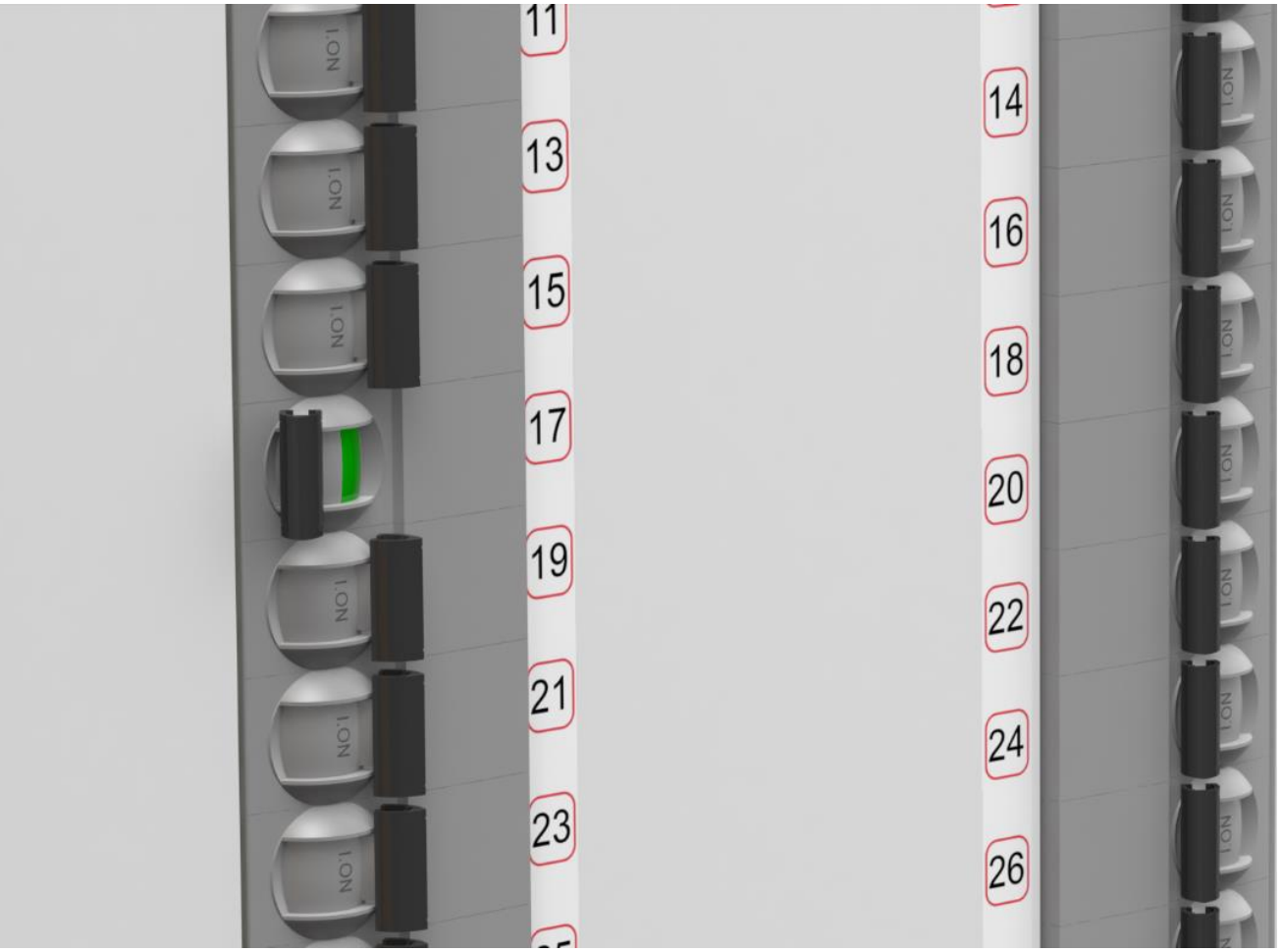
Ensure that the load end of the cable or equipment is safe to energise

STEP 20

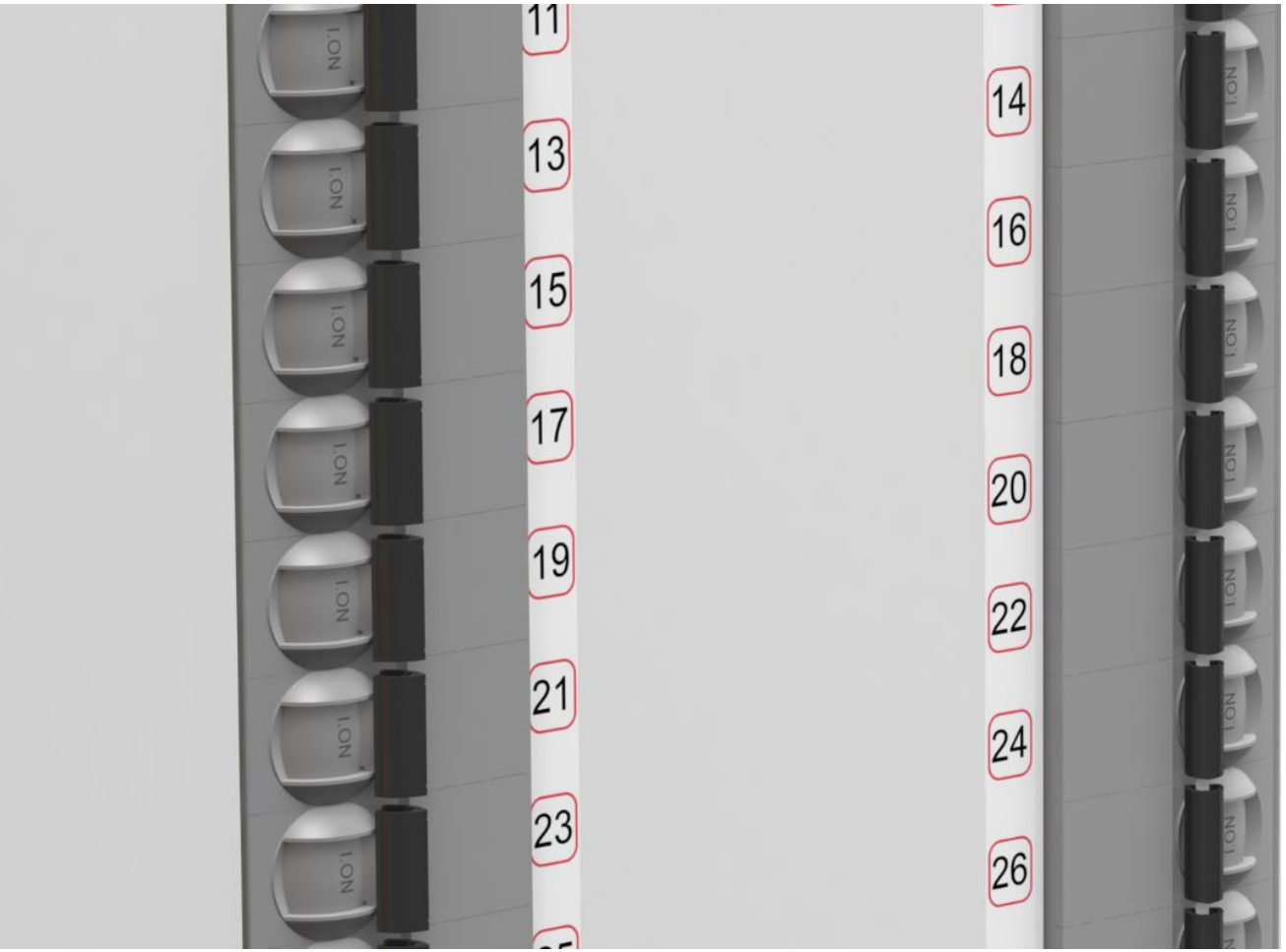
Close the escutcheon

STEP 21

The circuit breaker may now be switched to the **ON** position



- The circuit breaker may now be switched to the **ON** position



- The circuit breaker may now be switched to the **ON** position

- You have successfully completed the addition of a circuit to an existing circuit breaker!

- Once you have completed the training and fully understood the process, take a copy of the **SIGN OFF SHEET** in the **MANUAL** and provide a **signed** copy to the equipment owner for their records.

- The **MANUAL** has a work log that is to be filled out for all work carried out on these switchboards!

  The disc located in the **MANUAL** has a file that may be printed if additional copies of the log are required.

END OF PRESENTATION