

# **EVBox** **BusinessLine**

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**Charging Cable Replacement**



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## 1. Introduction

This Maintenance Manual tells you how to replace the charging cables on the EVBoxBusinessLine charging station. You must carefully read the safety information before you start.

This Maintenance Manual is applicable only to BusinessLine G2 and G3 models.

Only a qualified electrician is permitted to do the maintenance procedures described in this manual.

## 2. Safety precautions

**DANGER:**

Servicing and repair of the charging station by a non-qualified person will result in the risk of electric shock, which will cause severe injury or death.

- Only a qualified electrician is permitted to install, service, repair and relocate the charging station.
- The user must not attempt to service or repair the charging station as it does not contain user-serviceable parts.
- Local regulations may be applicable and may vary depending on your region / country of use. The qualified electrician must always ensure that the station is installed according to the local regulations.

**DANGER:**

Working on electric installations without proper precautions will result in the risk of electric shock, which will cause severe injuries or death.

- Switch off input power before servicing or repairing the charging station. Keep the power off until the charging station is fully installed and secure.
- Do not switch on the charging station if it is not fully installed or not secure.
- Do not install a component or a charging cable that is faulty or has a noticeable issue.

**DANGER:**

Not following the instructions given in this manual will result in the risk of electric shock, which will cause severe injury or death.

- Read this manual before working on the charging station.

**WARNING:**

Using materials other than those specified in this manual for servicing or repair of the charging station can damage the charging station.

- Do not use use materials other than those specified in this manual, especially materials containing silicone or phosphorus, as they can damage the charging station.

**WARNING:**

Servicing the charging station during wet environmental conditions (for example rain or fog) can result in the risk of electric shock and damage to the product, which can cause severe injuries or death.

- Do not open or service the charging station during wet environmental conditions (for example rain or fog).

**CAUTION:**

Not taking precautions against ESD (Electrostatic discharge) can damage electronic components in the charging station.

- Take the necessary precautions against ESD before touching electronic components.



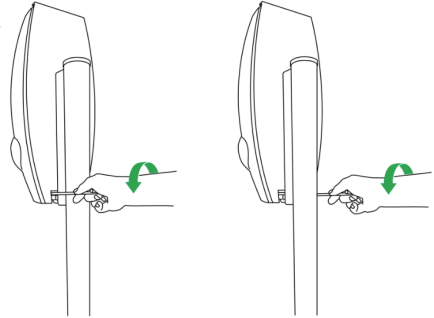
## 3. Replacement instructions

### 3.1. Prepare the work area

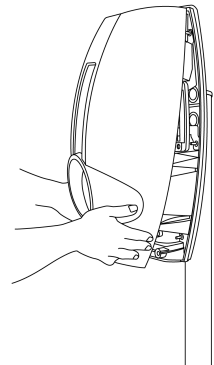
1. In the power supply cabinet, isolate the power supply to the charging station.
2. Put up warning signs to prevent connection of power to the charging station.
3. Make sure that unauthorised persons cannot access the work area.

### 3.2. Remove the charging station cover

1. Undock the charging plug from the cable dock on the charging station.
2. Use a 5 mm hex key to remove two screws from the bottom of the charging station (four screws for the double charging station).



3. Open the cover from the bottom and lift it off the charging station. Put the cover front side up in a place where it cannot get damaged.



4. For a double charging station remove the second cover in the same way.

### 3.3. Replace the charging cable



**Note:**

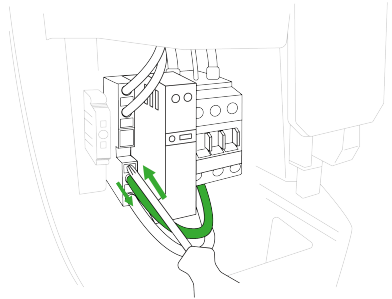
The following procedure shows a 3-phase BusinessLine model. Although quantities and connection points may be different in other BusinessLine models, the procedure order and techniques will be the same for all models.

1. Inside the charging station, identify the wires of the charging cable and their connection points.

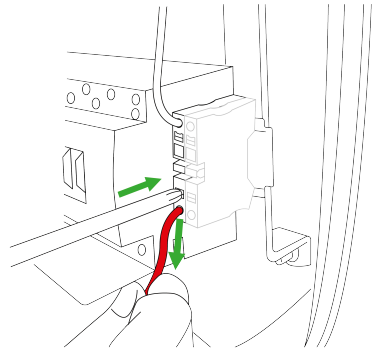
**Note:**

Write down the wire colors and the terminal numbers to which the wires connect.

2. Using a screwdriver, push in the indicator on the PE/G terminal block to release the PE/G wire.



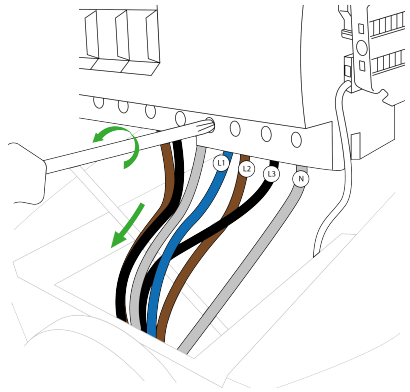
3. Using a screwdriver, push in the indicator on the terminal block to release the control pilot wire.



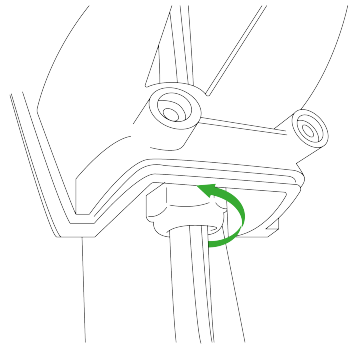
### 3. Replacement instructions

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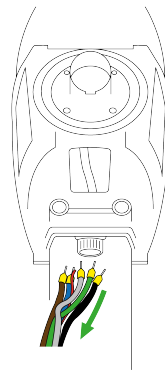
4. Loosen the screws on the contactor to release the power wires.



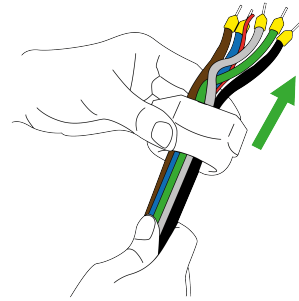
5. Fully loosen the cable gland nut and slide it down the charging cable.



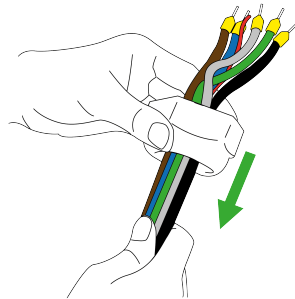
6. Gently pull the charging cable through the cable gland.



7. Remove the cable gland nut from the charging cable.



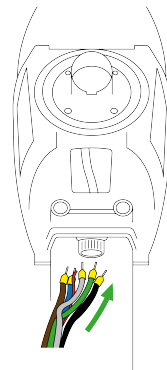
8. Slide the cable gland nut over the new charging cable.



9. Insert the charging cable through the cable gland into the charging station.

**Note:**

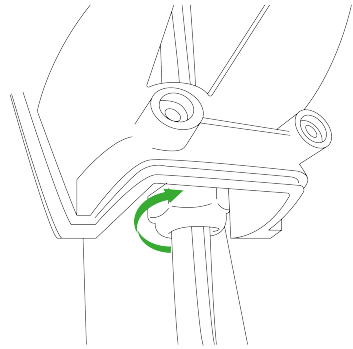
Make sure that the cable is inserted far enough to easily connect the wires.



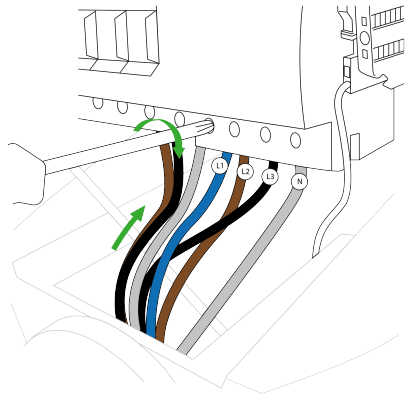
### 3. Replacement instructions

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10. Tighten the cable gland to secure the charging cable.

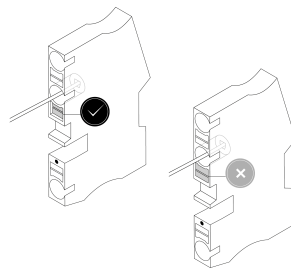
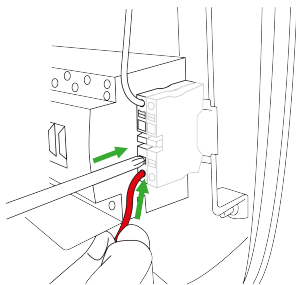


11. Insert the power wires into the contactor terminals and tighten the terminal screws.



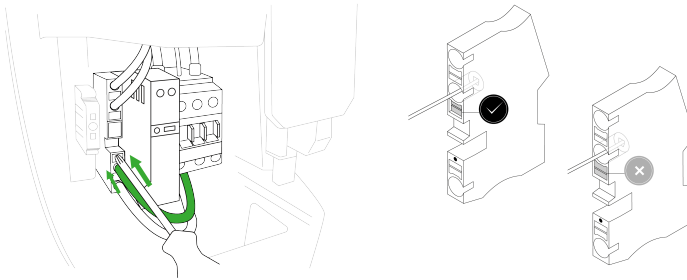
12. Push the control pilot wire into its terminal block.

Pull on the wire to make sure it is correctly connected. The indicator on the terminal block must be in the locked position.



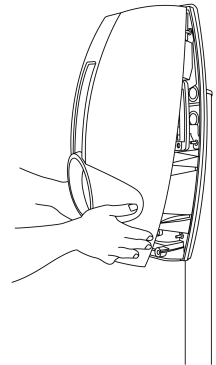
13. Push the PE/G wire into its terminal block.

Pull on the wire to make sure it is correctly connected. The indicator on the terminal block must be in the locked position.



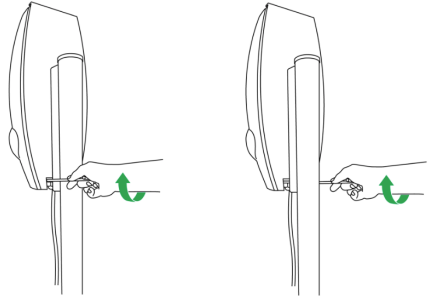
### 3.4. Install the charging station cover

1. Apply silicone grease to the seal around the charging station frame to ensure protection against water and dirt.
2. Make sure the wiring around the plug is clear of the plug locking mechanism.
3. Put the top of the cover over the top edge of the charging station frame and then pull the cover downwards.



4. Make sure no wires are trapped around the edge of the cover.
5. Make sure the cover locks onto the frame and the rubber seals are in position to ensure protection against water and dirt.

6. Tighten the bolts at the bottom of the cover using a 5 mm hex key. When the charging station is mounted on a wall bracket, the space to tighten the cover bolts is very small. Use a small socket wrench with a 5 mm hex key bit.



7. For a double charging station install the second cover in the same way.

### 3.5. Test the charging station

1. Remove the warning signs from the power supply.
2. Switch on electrical power to the charging station.
3. Test the charging station using the EVBox Test Box or by charging a vehicle as described in the applicable charging station User Manual.

## 4. Disclaimer

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