

# Automated rapid charging connector QCC

**Quick reference guide**

EN



SCOPE OF SUPPLY

Generic site layout

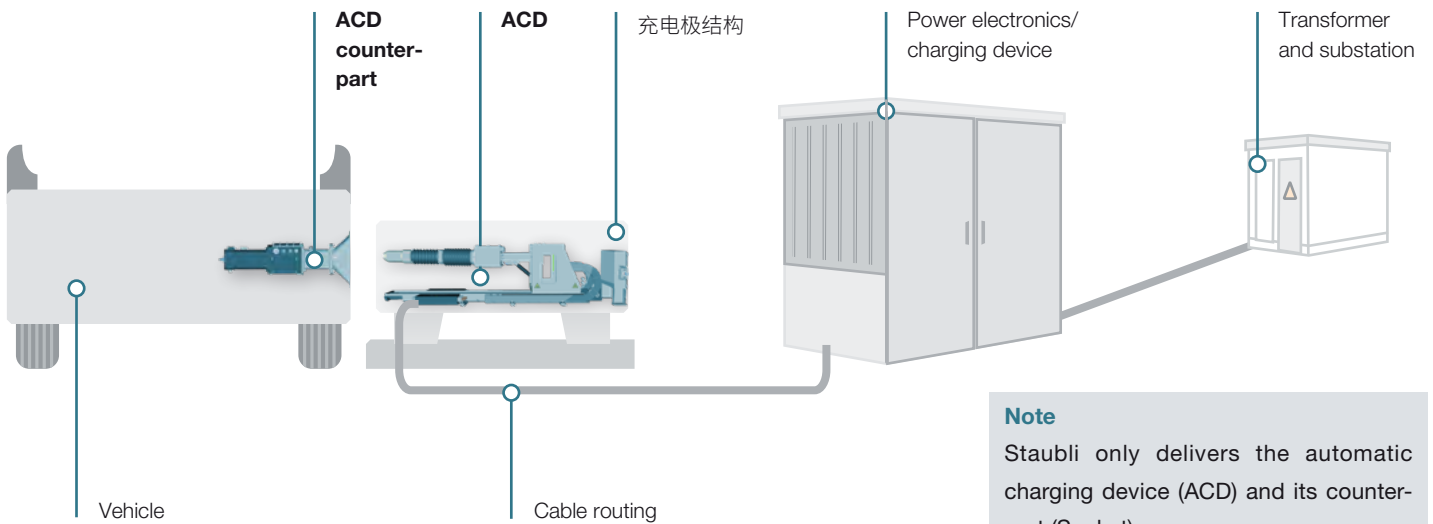
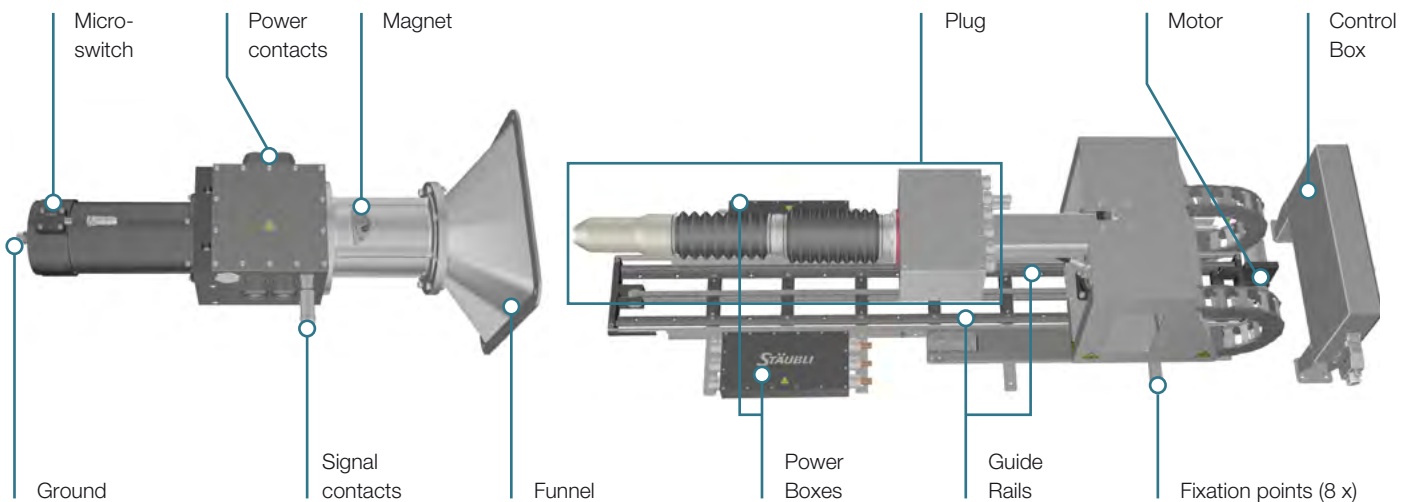


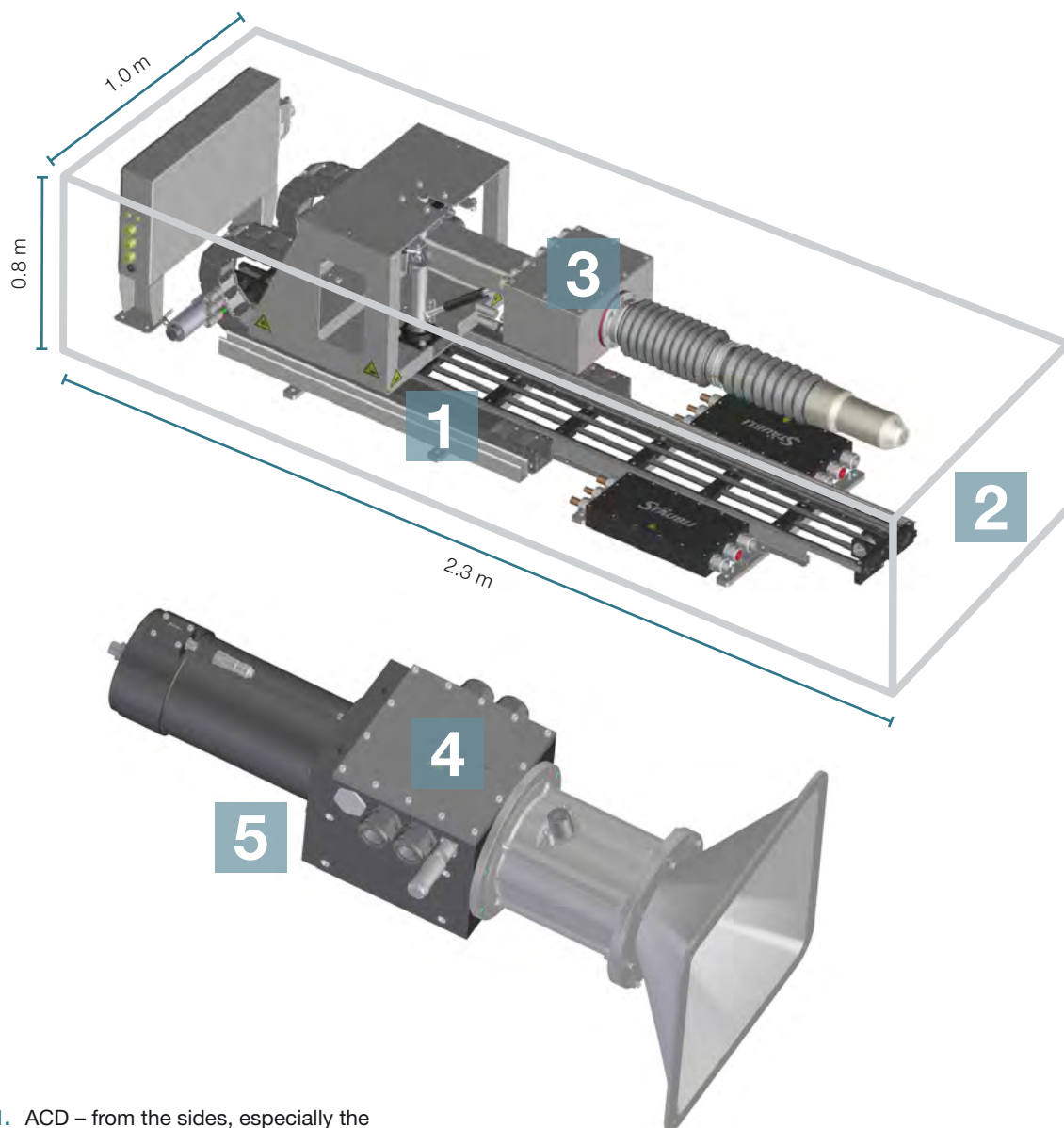
Illustration ACD and socket w/sub-parts



# Space and mounting

The QCC-ACD is intended to be placed inside of an enclosure. The enclosure shall have the minimum dimensions

shown below for the ACD and access for maintenance is described by the 5 positions shown.



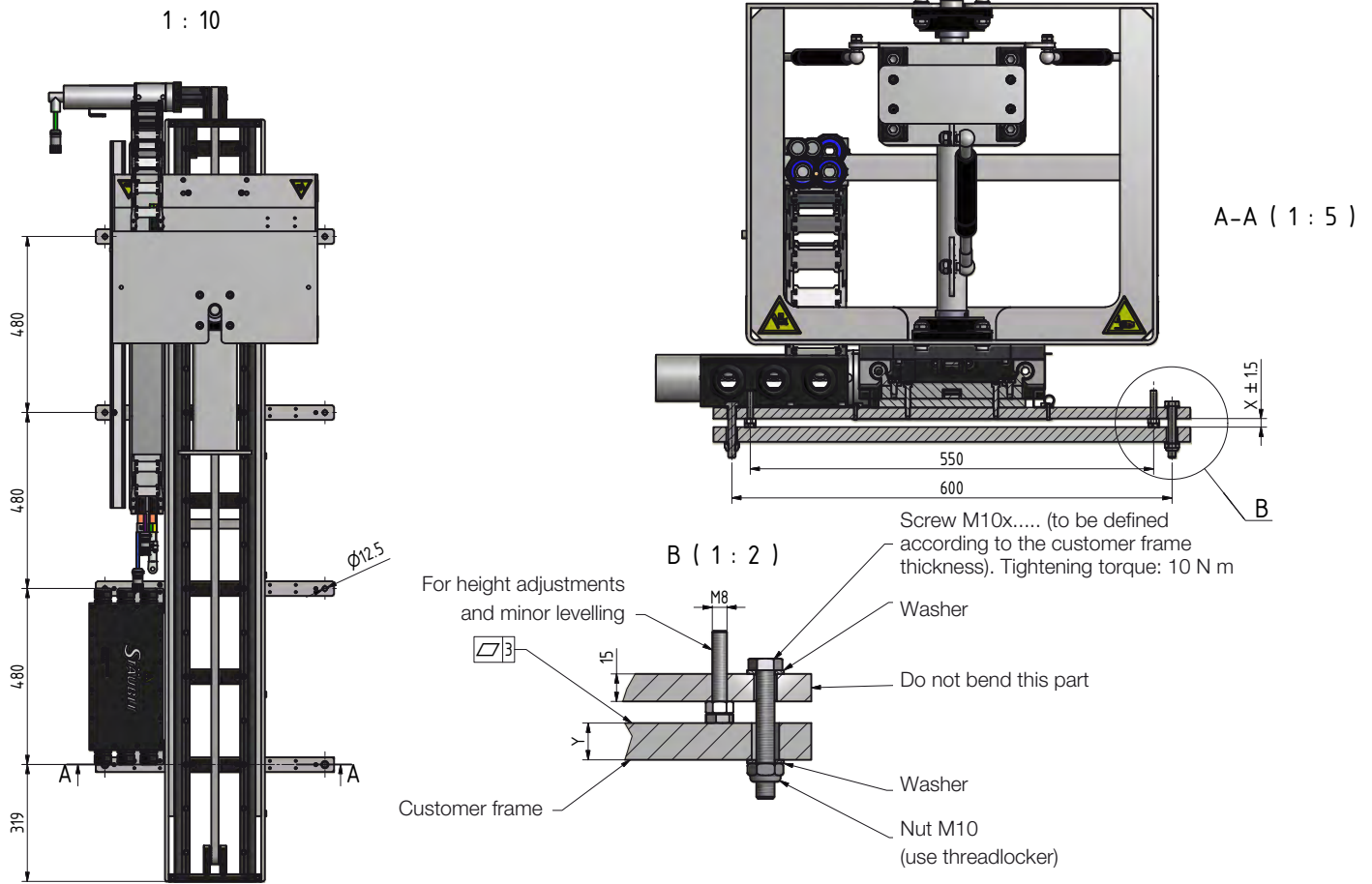
1. ACD – from the sides, especially the side of the power box.
2. ACD – from the front, this needs to be open for mating as well.
3. ACD – from the top.
4. Socket – from the top
5. Space to turn wrenches (both sides)

**Note**

Make sure to plan cable routing with minimum bend radius according to manufacturer recommendation.

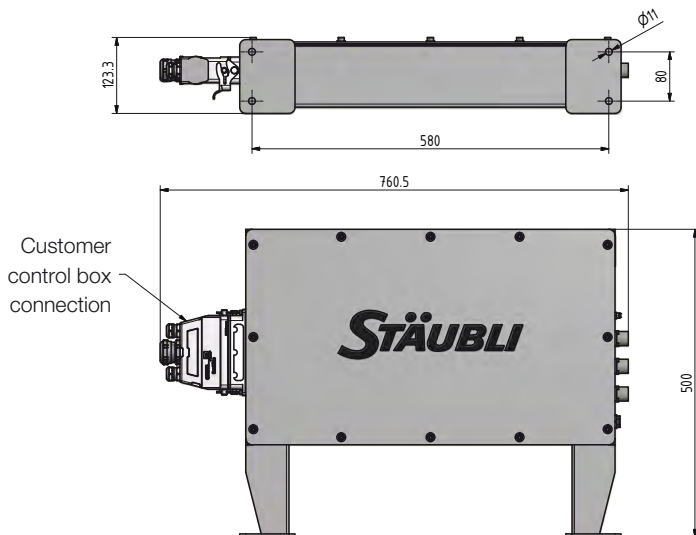
DIMENSIONS

QCC – ACD



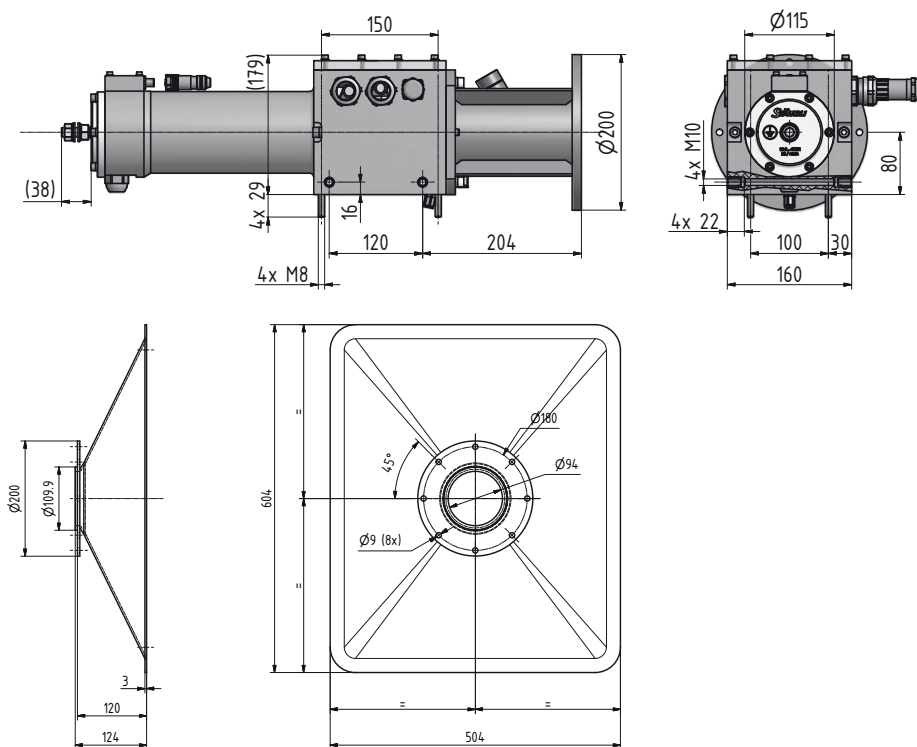
**Note**  
 \*Sketches show QCC-650 ACD.  
 QCC-1500 comes with 2 Power boxes

Control box

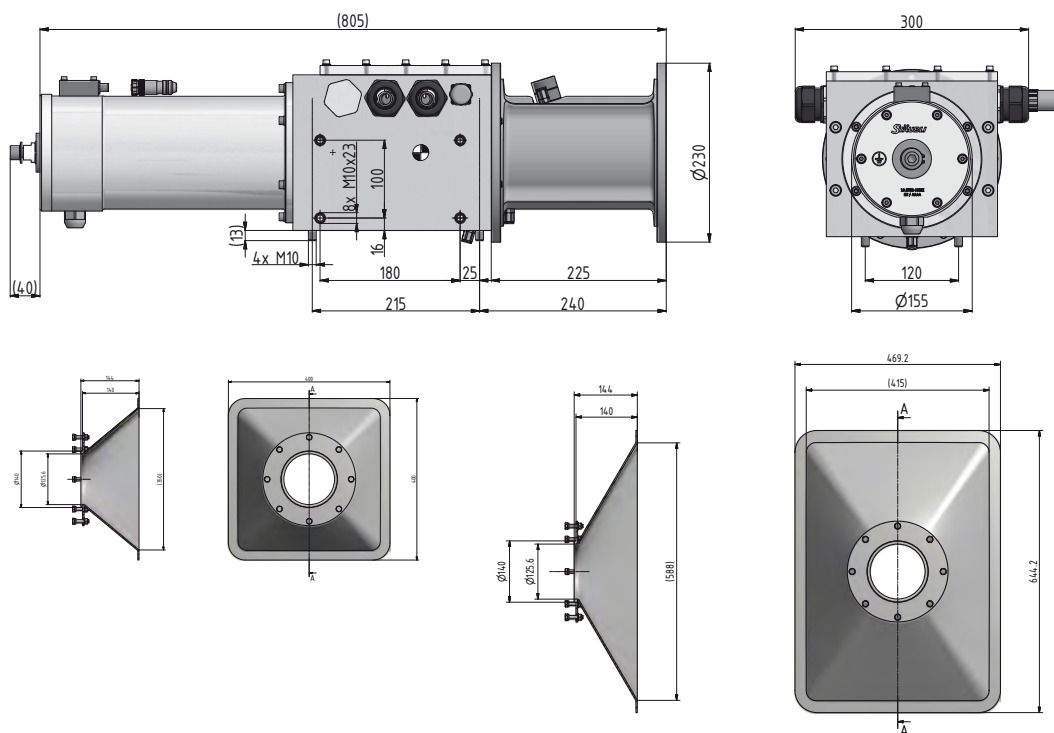


**Note**  
 The control box can be installed up to 2 m away from ACD.

# QCC-650 – Socket (ACD counterpart)

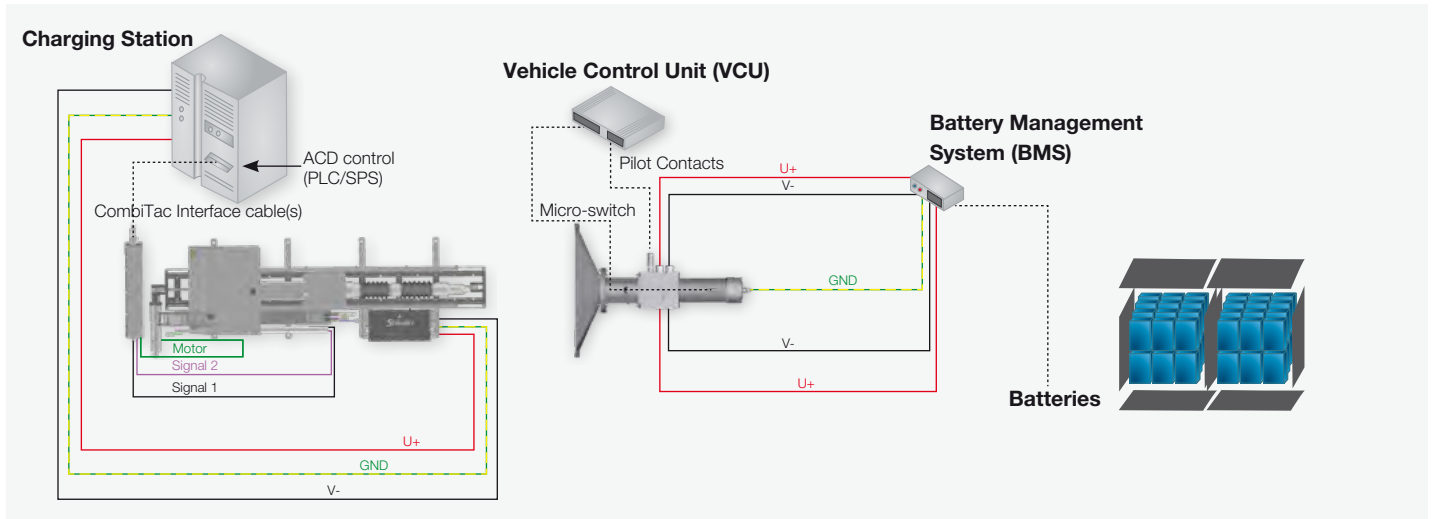


# QCC-1500 – Socket (ACD counterpart)



# Infographics with wiring details

## QCC-650



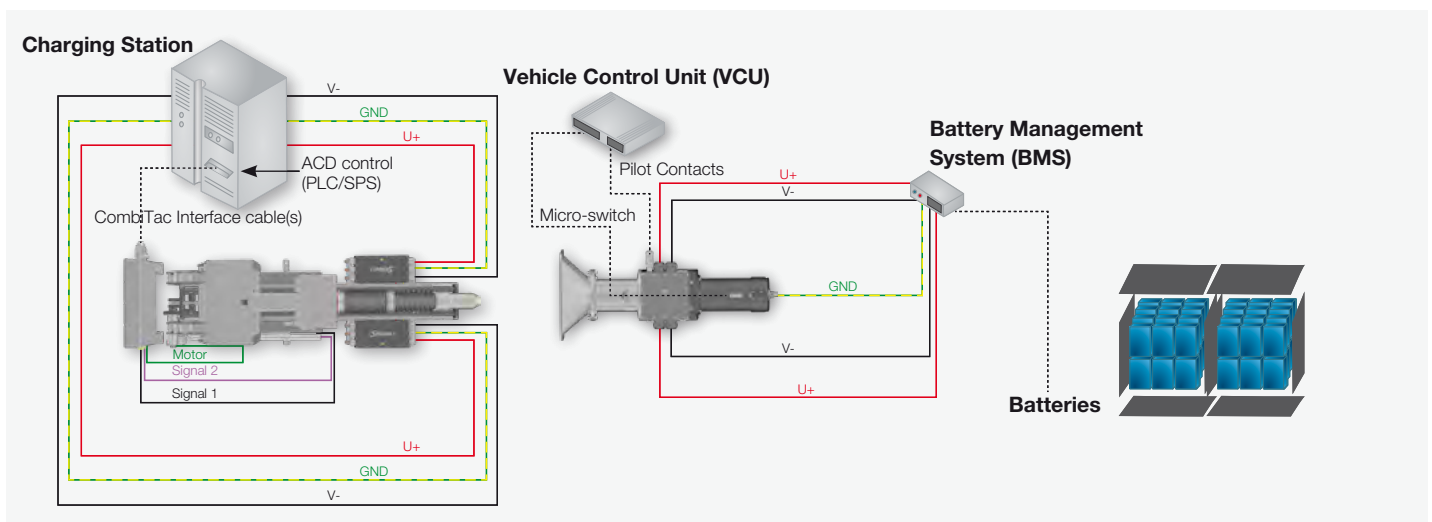
**Power Lines U+/-/GND**  
Up to 95 mm<sup>2</sup>/Outer-Ø 10 mm – 32 mm  
Class 5 or 6 stranding recommended

**CombiTac interface cable**  
Signals (3 twisted pairs): 0.25 mm<sup>2</sup> – 0.75 mm<sup>2</sup>  
I/O (up to 30 wires): 0.5 mm<sup>2</sup> – 1.5mm<sup>2</sup>  
Motor power (3 wires): 2.5 mm<sup>2</sup> – 4 mm<sup>2</sup>

**Pilot contacts (socket side)**  
Up to 6 wires: 0.14 mm<sup>2</sup> – 1 mm<sup>2</sup>

**Micro-switch**  
Up to 4 wires: max. 0.5 mm<sup>2</sup>

## QCC-1500



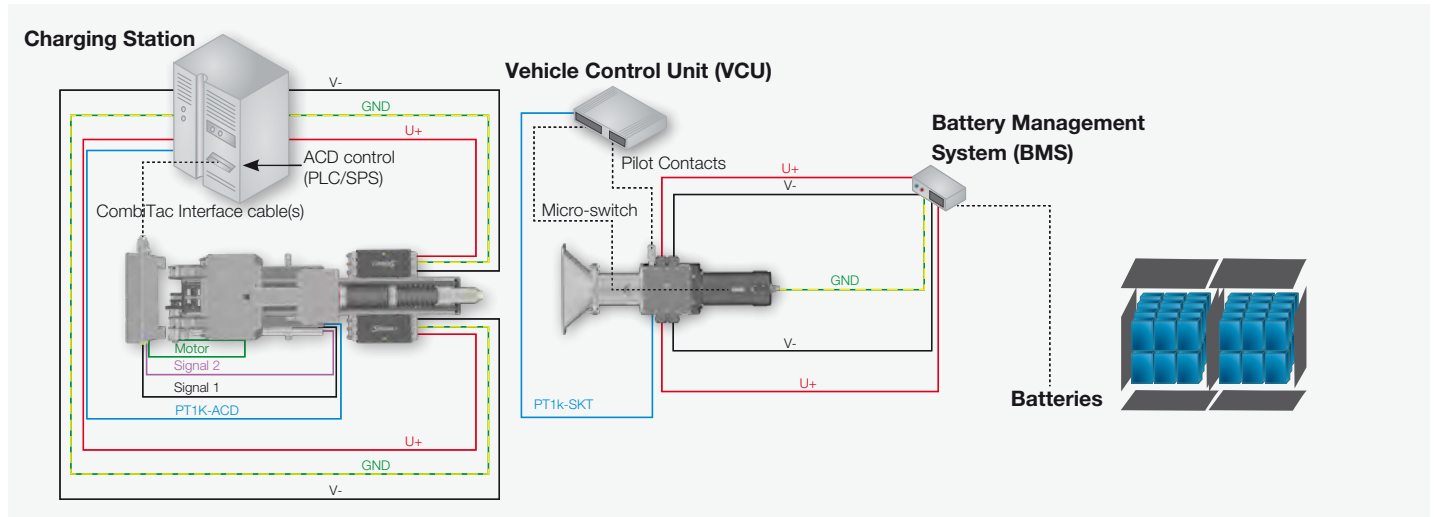
**Power Lines U+/-/GND**  
Up to 120 mm<sup>2</sup>/Outer-Ø 10 mm – 32 mm  
Class 5 or 6 stranding recommended

**CombiTac interface cable**  
Signals (3 twisted pairs): 0.25 mm<sup>2</sup> – 0.75 mm<sup>2</sup>  
I/O (up to 30 wires): 0.5 mm<sup>2</sup> – 1.5mm<sup>2</sup>  
Motor power (3 wires): 2.5 mm<sup>2</sup> – 4 mm<sup>2</sup>

**Pilot contacts (socket side)**  
Up to 6 wires: 0.14 mm<sup>2</sup> – 1 mm<sup>2</sup>

**Micro-switch**  
Up to 4 wires: max. 0.5 mm<sup>2</sup>

## QCC-1500 + Temperature sensor



**Power Lines U+/-/GND**  
 Up to 120 mm<sup>2</sup>/Outer-Ø 10 mm – 32 mm  
 Class 5 or 6 stranding recommended

**CombiTac interface cable**  
 Signals (3 twisted pairs): 0.25 mm<sup>2</sup> – 0.75 mm<sup>2</sup>  
 I/O (up to 30 wires): 0.5 mm<sup>2</sup> – 1.5mm<sup>2</sup>  
 Motor power (3 wires): 2.5 mm<sup>2</sup> – 4 mm<sup>2</sup>

**Pilot contacts (socket side)**  
 Up to 6 wires: 0.14 mm<sup>2</sup> – 1 mm<sup>2</sup>

**Micro-switch**  
 Up to 4 wires: max. 0.5 mm<sup>2</sup>

**PT1000 Temperature sensor cable**  
 PT1K-ACD side: 3 wires 0.75 mm<sup>2</sup> – 2 mm<sup>2</sup>  
 PT1K-SKT side: 3 wires 0.14 mm<sup>2</sup> – 1 mm<sup>2</sup>

## Programmable Logic Control (PLC)

In order to drive the ACD, a PLC will need to be programmed and connected via the CombiTac Interface Cable to the Stäubli Control box. The connection is made via dry contacts and the system is driven by closing

the circuit. Opening the circuit returns the system to the home position. A more detailed presentation is usually made during the first consultation with the Stäubli engineer who will commission the system.

## Commissioning and service

Each ACD shall be commissioned by Stäubli personnel to ensure that it is properly integrated and works from day one. There is a line in the quote for this service and upon placing your order, you will be put in contact with someone from the Stäubli Service

Team who will:

- Assist in preparations for installation.
- Answer questions about the system to facilitate integration.
- Schedule a site visit when the time is near for commissioning.



● Stäubli Units    ○ Representatives/Agents

# Global presence of the Stäubli Group

[www.staubli.com](http://www.staubli.com)