

Installation and assembly instruction Pico stand



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Assembly

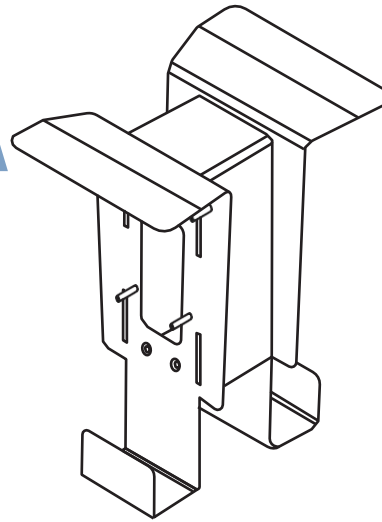
Parts list

Article supplements Pico:

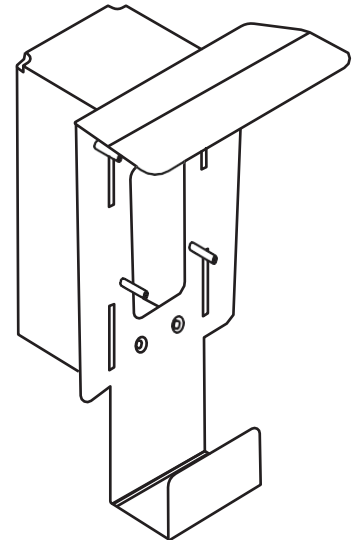
1-way	2-way	
1x	1x	M5 x 16mm countersunk screw
2x	2x	M5 tooth lock washer
1x	1x	Cable lug Ø 5,5 m ²
1x	1x	M5 Nut self-locking
1x	1x	Shrink sleeve for looping when mounting the 1-way or 2-way stand head. The 1-way charging station with direct connection does not require a shrink sleeve!
1x	2x	Cable short (per charging station!) for connection to charging station (length = 60cm)
2x	2x	Cable long for supply line looped
1x	1x	Protective conductor (length = 70cm)
5x	5x	Wago clamps up to 6mm ²
		Insulation tape

Supplied assembly material:

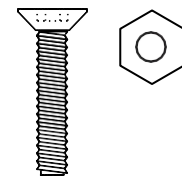
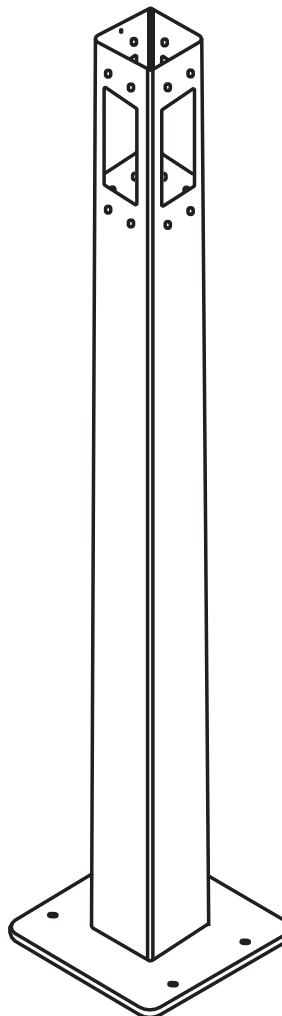
This material is delivered to you.



212070-PL/PH2
Pico stand head 2 way



212070-PL/PH1
Pico stand head 1 way



212070-PL/PH1
Pico stand head 1 way
4x countersunk screw
M5x12mm
4x nuts M5 with Self-locking

212070-PL/PH2
Pico stand head 2 way
8x countersunk screw
M5x12mm
8x nuts M5 with Self-locking

M5 washers and Cable glands
M25 x 1.5mm are delivered
with Pico!

212070-PL
Stand with base plate

Description Pico stand

Product configuration
and data sheet

smart-me Pico stand

smart-me Pico stand	212070-PL
smart-me Pico stand head 1-way	212070-PL/PH1
smart-me Pico stand head 2-way	212070-PL/PH2

Metal stand for the Pico Elektro Charging station

The Pico stand is a robust and technically sophisticated stand. It is made for single or double mounting. For this purpose, an attachable stand head system is used, which can be easily exchanged. The stand is made of hot-dip galvanized and powder-coated steel and is therefore corrosion-resistant. Due to the stable welding seams and robust shape, the stand is safe from vandalism. The charging cable can be suspended via an additionally attached metal hook and thus does not lie on the ground.

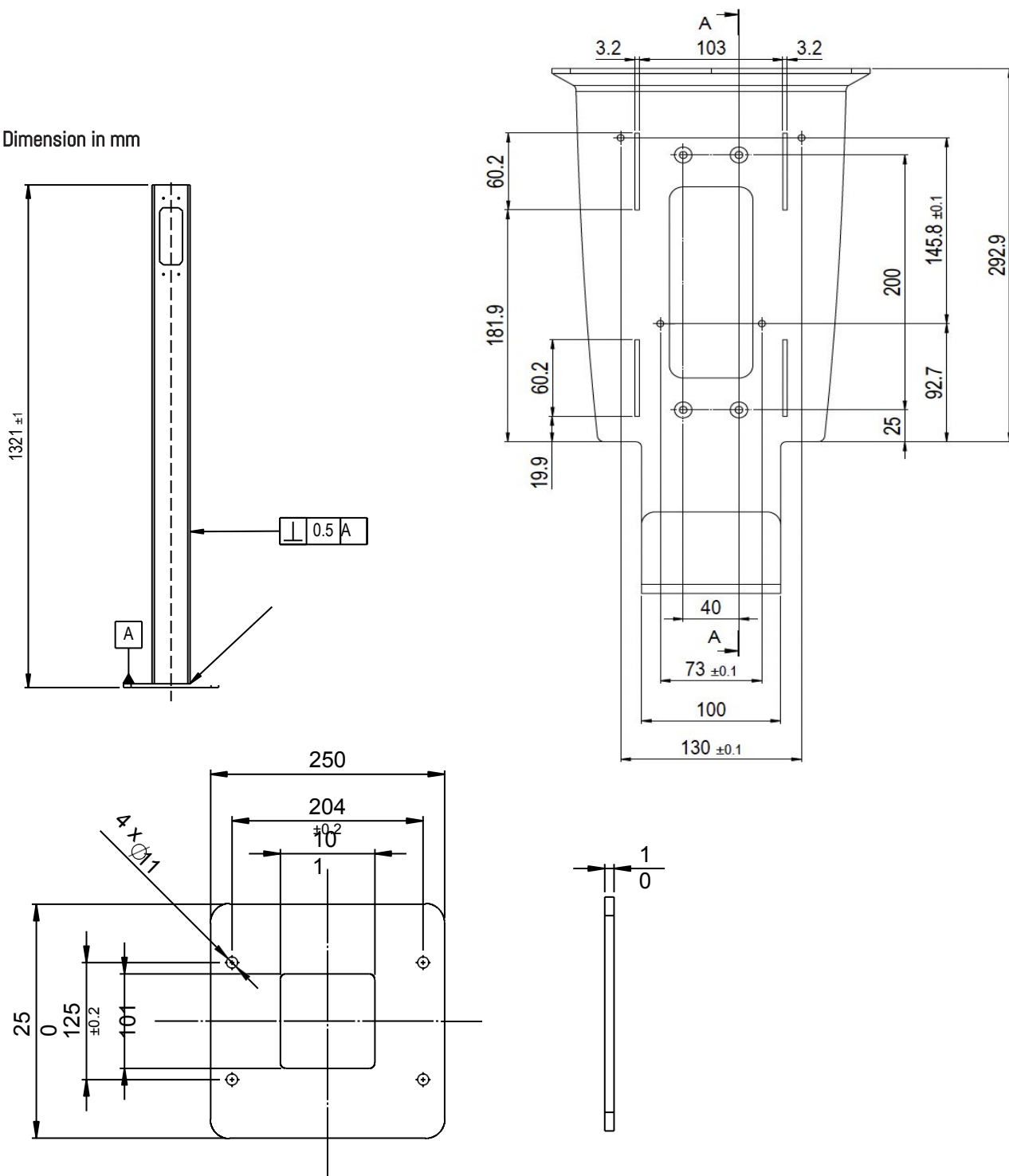
Functions

- Base plate according to OPI20 standard
- Stand head system for one-sided or two-sided mounting of pico
- Corrosion resistant
- Robust welding seams
- Metal hook for the charging cable
- Metal roof for weather protection
- Water-protected screw connections

Assembly	Floor mounting according to OPI20 standard
Type of installation	Floor bolting
Power supply	Floor guided
Safety	Grounding
Shock resistance level	IK10
Material	Hot-dip galvanized and Powder coated steel
Dimensions	Stand: 1321 x 101 mm Base plate: 250 x 250 mm Stand head 1-way: 228.6 x 117.7 mm upright head 2-way: 228.6 x 338.6mm Total height when bolted: 1353 mm
Weight	Stand with base plate: 14kg Stand head 1-way: 3kg Stand head 2-way: 4kg

Dimensions

Dimension in mm



Wiring

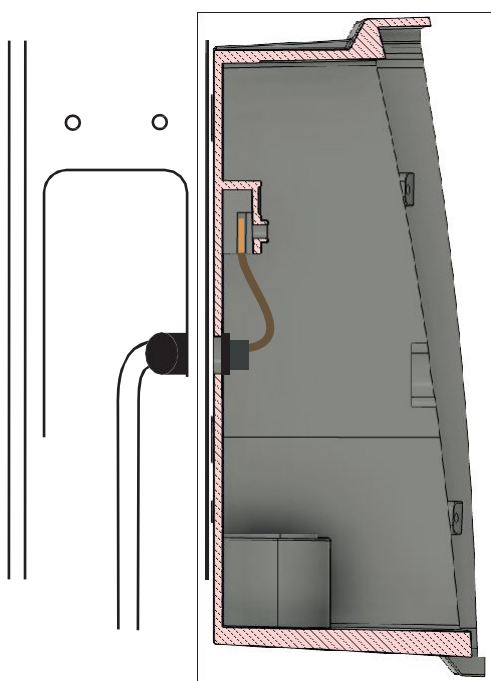
Direct wiring V1

Directly wire a pico

If a single Pico charging station is not looped, there is no need for a shrink sleeve and the cable is connected directly. To connect the stand itself to the protective conductor, the PE-connection is conductively connected to an attachment point.

Therefore you need:

- 1 x Protective conductor wire
- 1 x M5 tooth lock washer
- 1 x Cable lug



Wiring

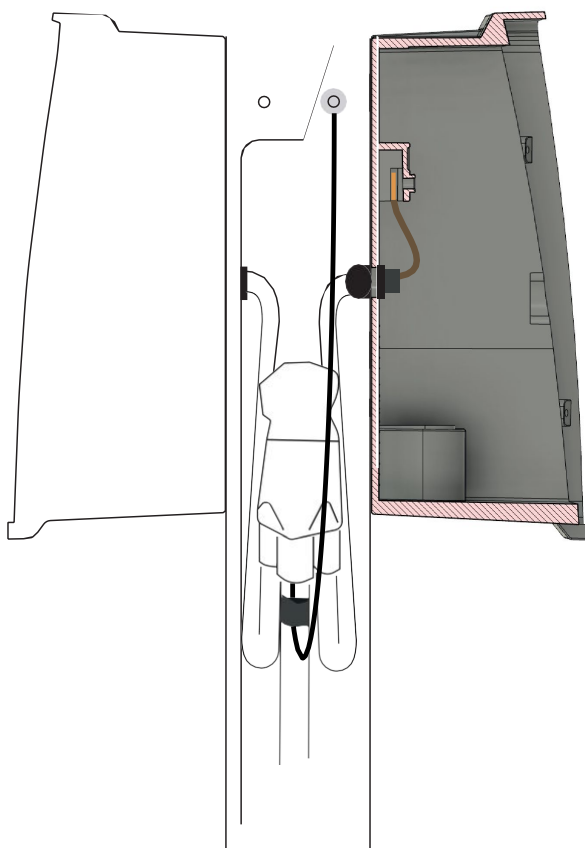
Direct wiring V2

Wire two Pico charging stations

If two Pico charging stations are not looped, a shrink sleeve is needed. A protective conductor must then be led out of the shrink sleeve and connected at the top inside the metal tube directly to the inner metal surface.

Therefore you need:

- 1 x Protective conductor wire
- 1 x M5 tooth lock washer
- 1 x Cable lug



Wiring

Looped wired

Wire one or two Pico charging stations looped

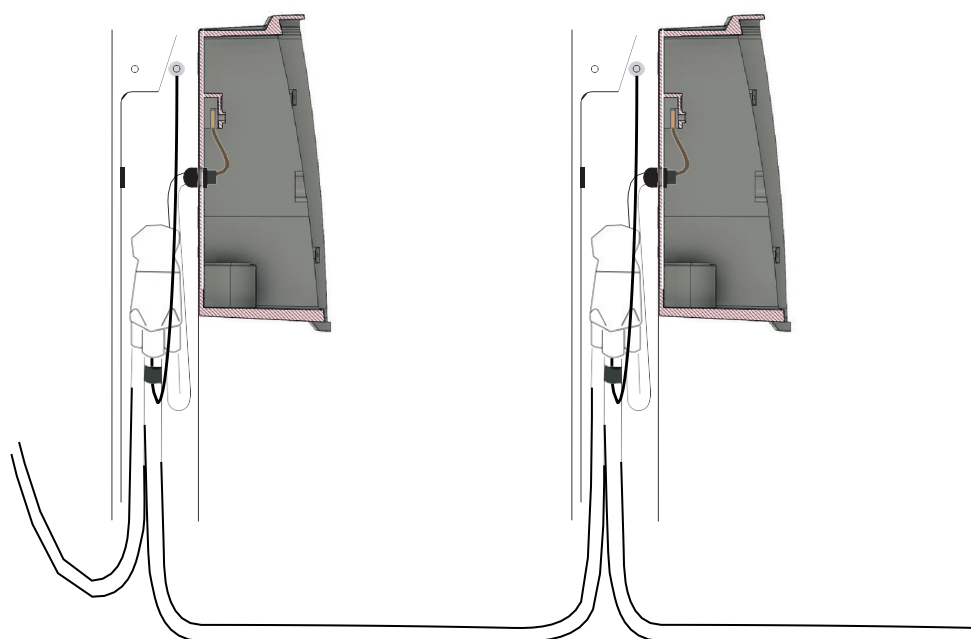
(Shown here with one Pico charging station)
This option occurs when several stands are mounted next to each other. In this case it always requires a shrink sleeve. The protective conductor is led out of the shrink sleeves and connected at the top inside the metal tube directly to the inner metal surface.

Therefore you need:

Count of protective conductor wires = count of stands

Count of M5 toothed lock washers = count of stands

Count of cable lugs = count of stands



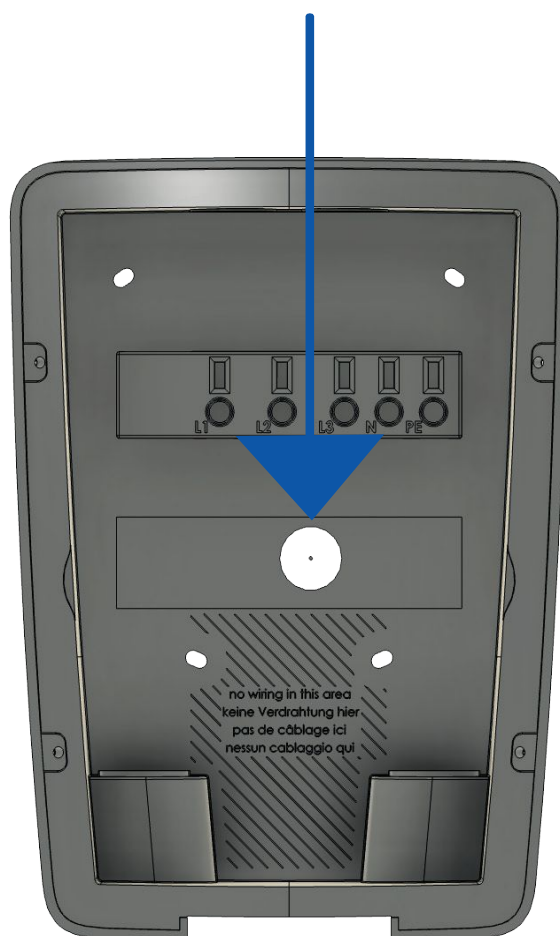
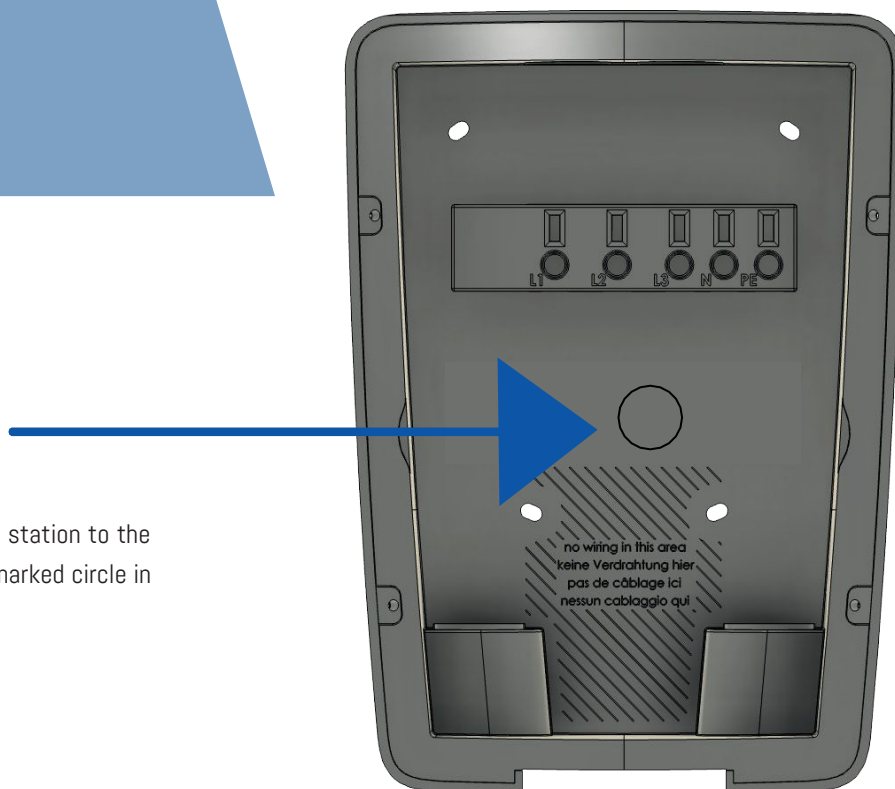
Assembly

Step 01

Drill hole

To connect the wires of the charging station to the stand head you have to drill out the marked circle in the mounting plate.

dØ hole = 25-26 mm

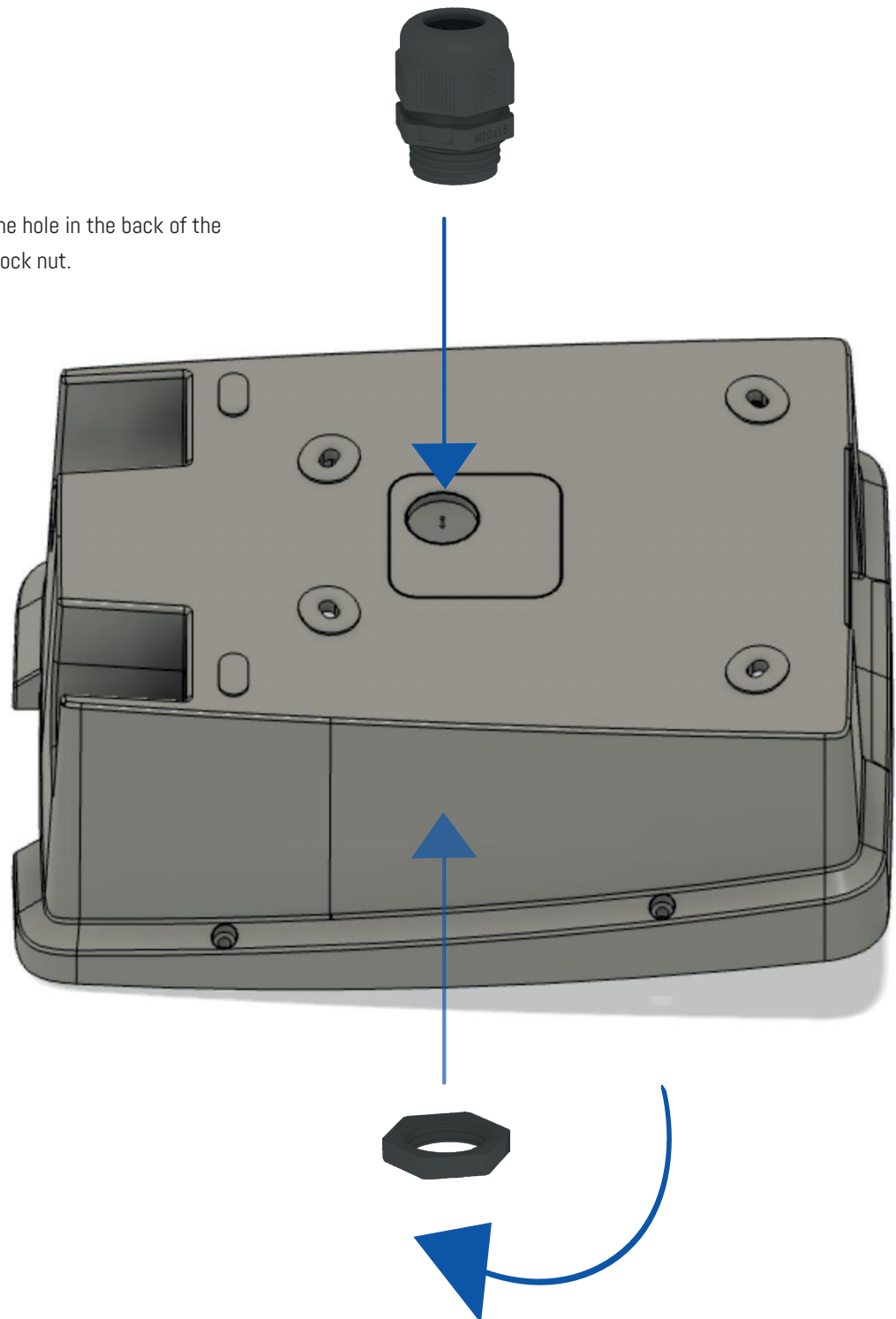


Assembly

Step 02

Cable gland

Screw the cable gland into the hole in the back of the base and secure it with the lock nut.



Assembly

Step 03

Shrink sleeve

Wire the cable above the stand with the help of a shrink sleeve. A shrink sleeve is required when:

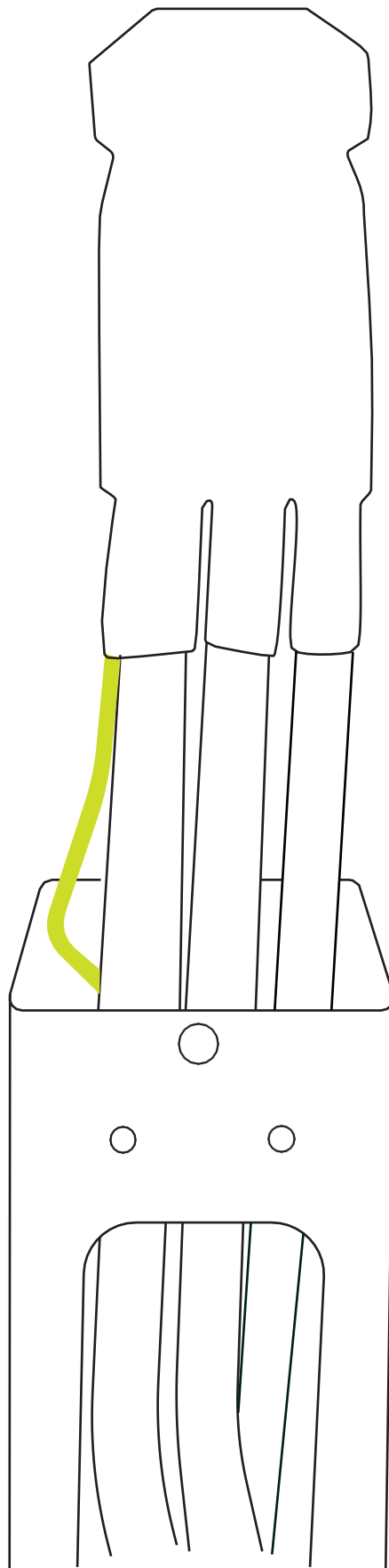
- a charging station is looped
- two charging stations are installed looped or not looped

Attention!

If the charging station in single application is not looped, a direct connection is provided.

In this case, no sleeve is necessary.

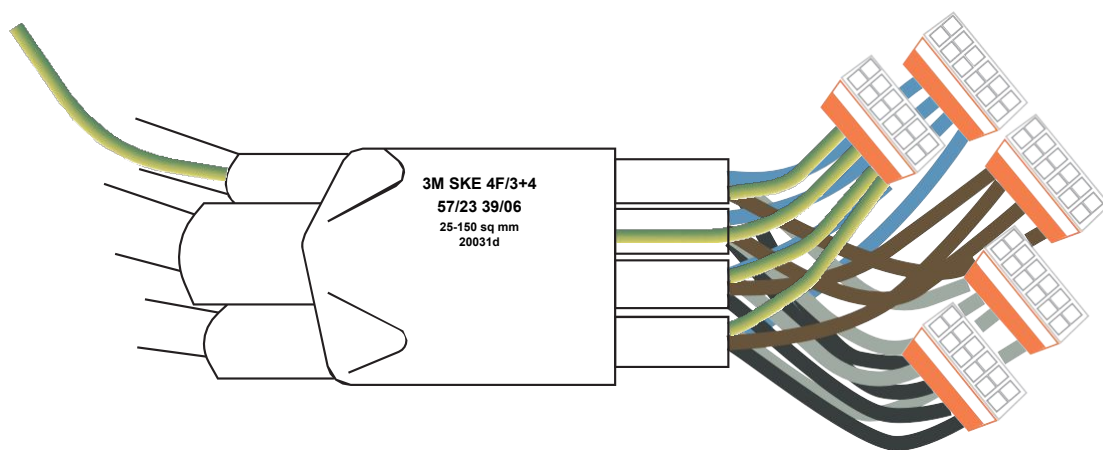
See wiring options for stand assembly.



Assembly

Step 03

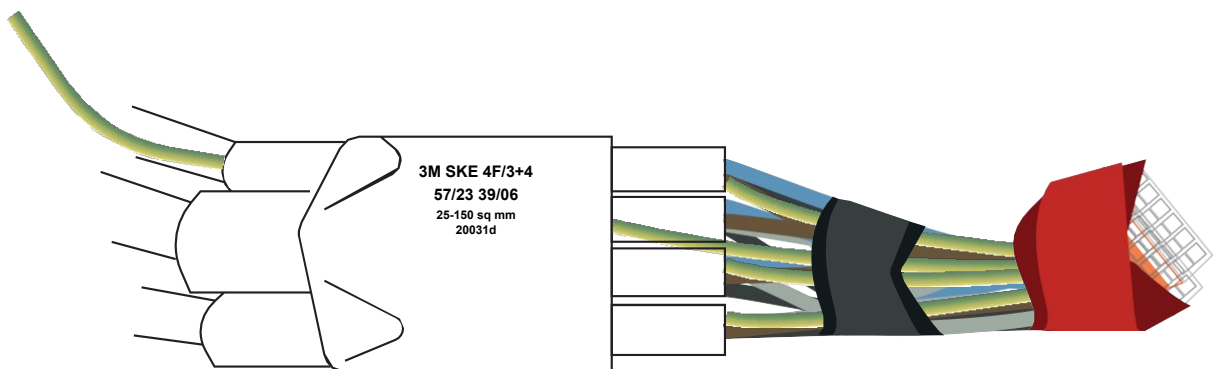
Wiring with shrink sleeve:



3a Wire inside the shrink sleeve according to the following visuals.

Attention!

Lead out a protective conductor for a connection to the stand. Length approx. 70cm. Then wire with the Wago terminals.



3b Fix the stranded wires and clamps with insulating tape.

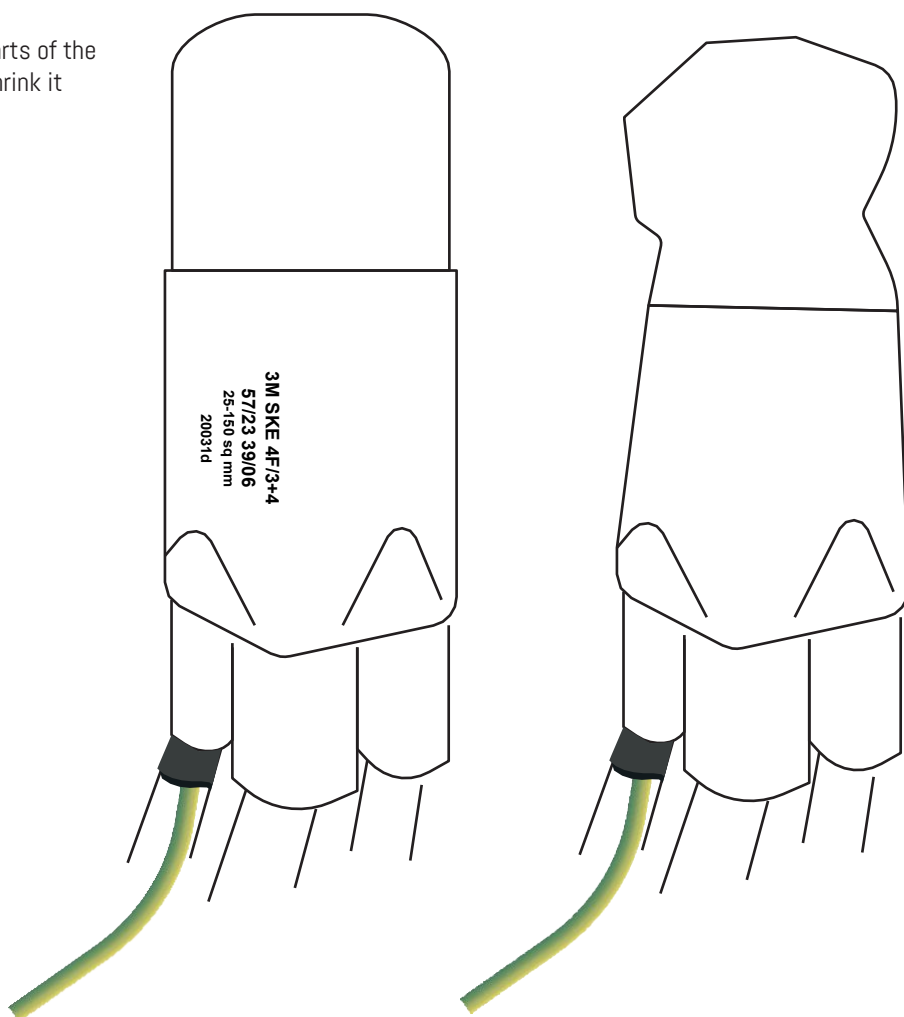
Assembly

Step 03

3c Fix the already led out protective conductor to a short cable with insulating tape. This insulating tape must be in the area of the ending of the sleeve.



3d Plug the upper and lower parts of the shrink sleeve together. Then shrink it evenly with a hot air dryer.



Assembly

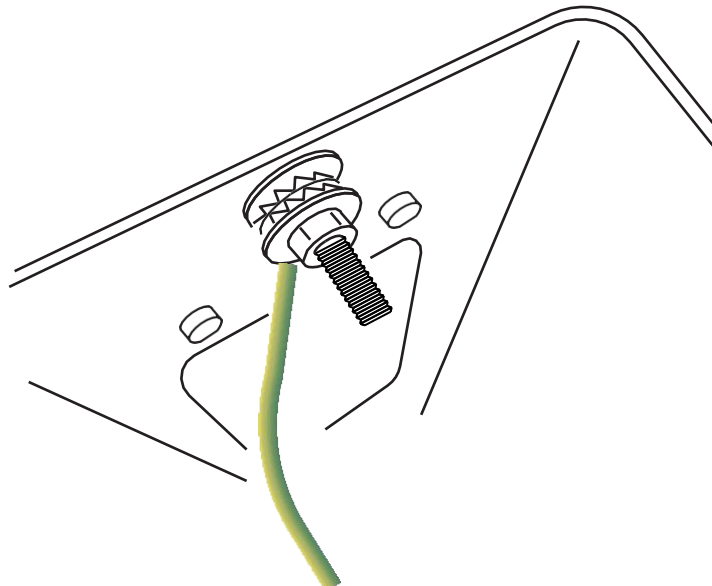
Step 04

Protective conductor

The following visual shows the connection of the protective conductor with the metal stand. A self-locking nut or toothed lock washer must be used.

Therefore you need:

- 1 x M5x16mm countersunk screw
- 2 x M5 toothed lock washer
- 2 x M5 washer
- 1 x M5 cable lug
- 1 x M5 Nut self-locking



Assembly

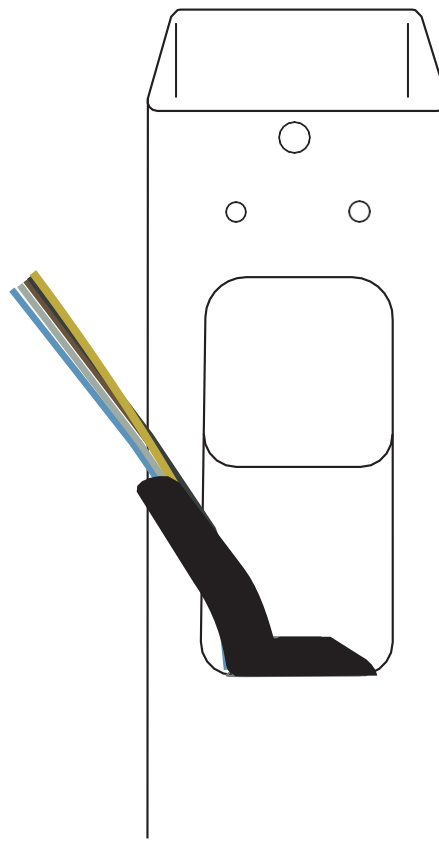
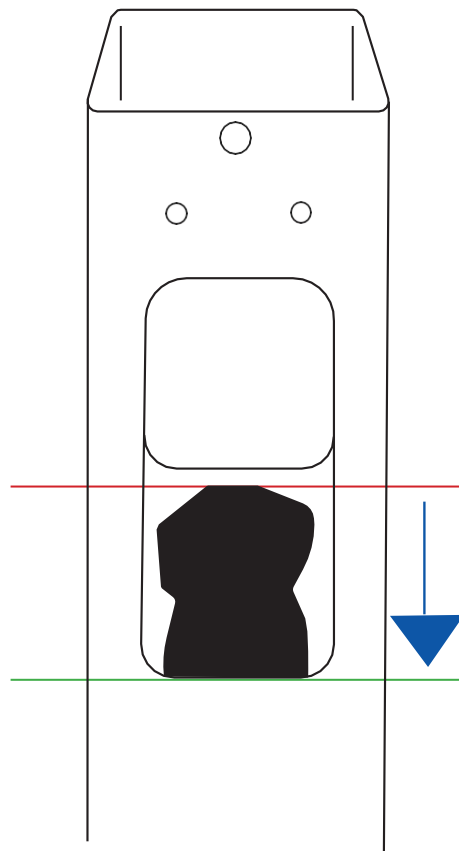
Step 05

Insert

Push the sleeve into the upright metal tube of the stand. The upper edge of the sleeve-wiring should be no higher than the lower edge of the cut-out in the stand. Then lead the cables through the cut-outs of the stand.

Notice!

- Ideally, the cables should be able to be tightened afterwards
- The cables should be as flexible as possible
- The maximum diameter is defined by the selected cable gland.
Guide value: $d\varnothing \text{ max.} = 17 \text{ mm}$

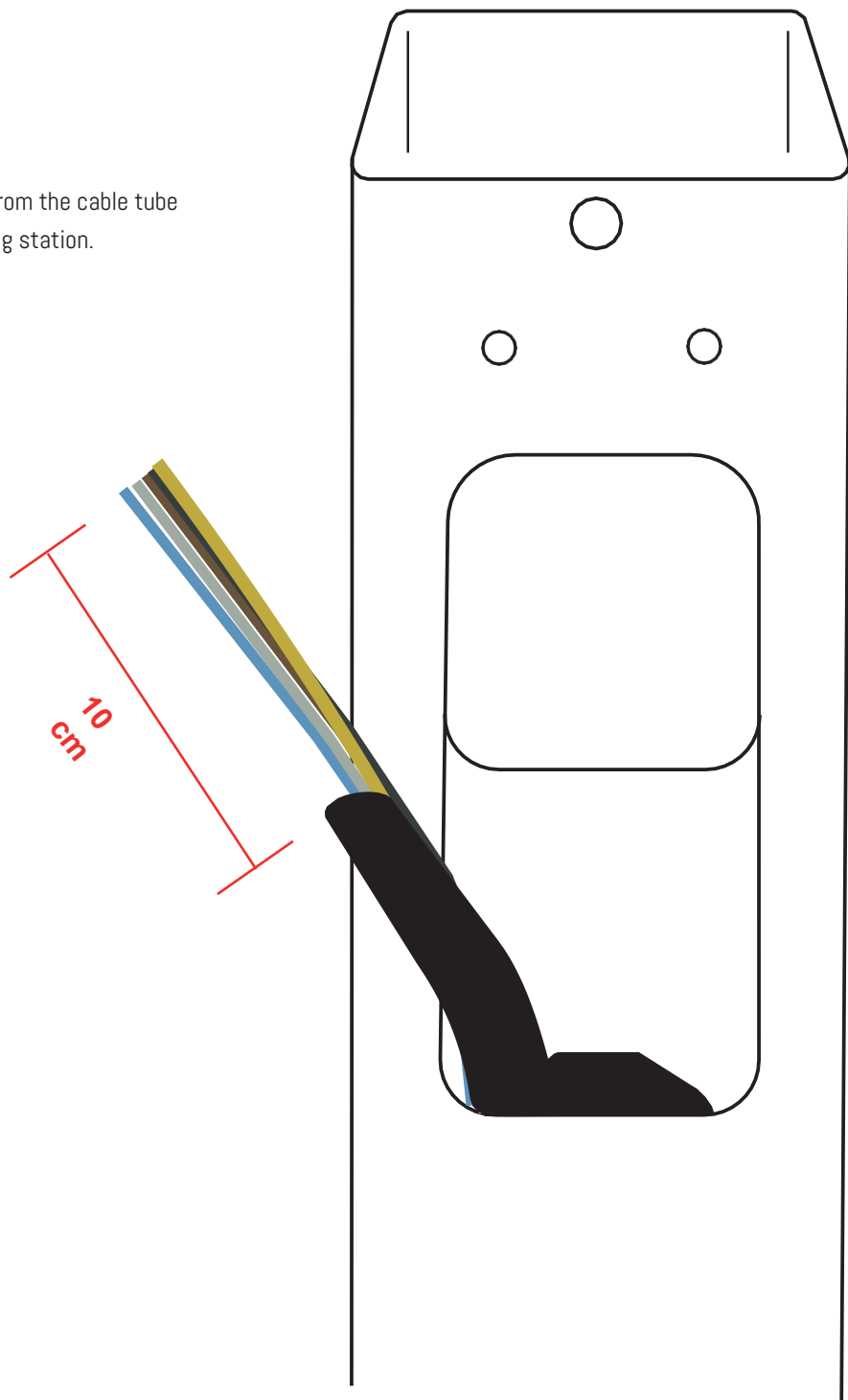


Assembly

Step 06

Wire stripping

Strip a length of approx. 10cm from the cable tube so that you can wire the charging station.



Assembly

Step 07

Stand construction

Place the metal head on the metal stand.

Attention!

Check whether at least one hole or countersink is undyed/blank. This is important for the conductivity of the protective conductor.

Screw the bracket on with the M5 countersunk screws. The screws must be secured with Loctite or any similar alternative. Alternatively, you can use screws with self-locking (blue adhesive spot on screw).

Stand head 1 way:

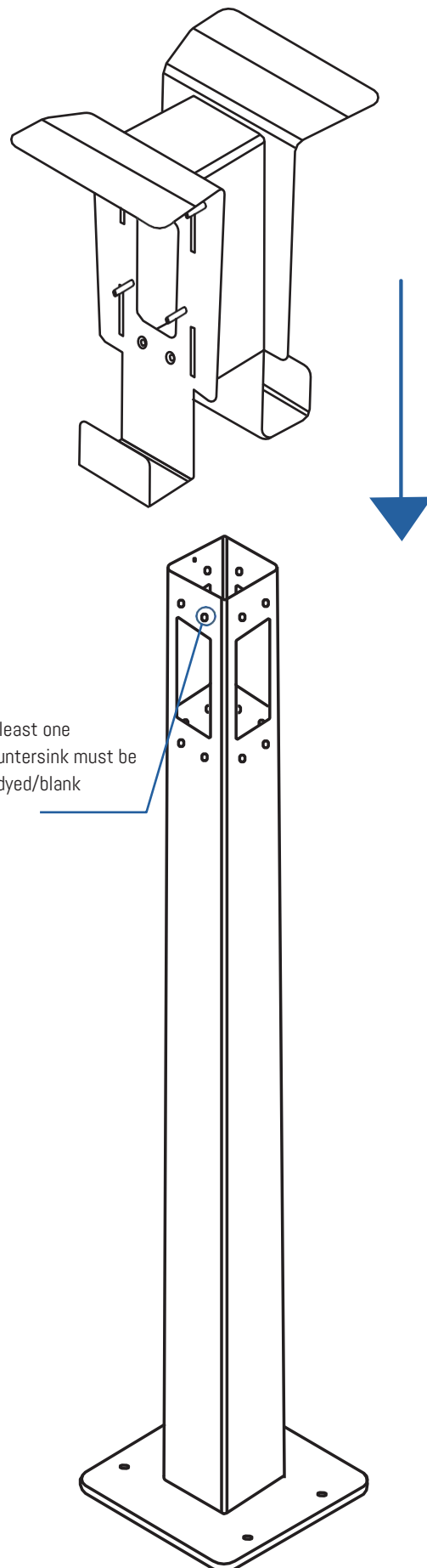
4 x countersunk screw

M5 x 12mm stainless steel screw

Stand head 2 way:

8x countersunk screw

M5 x 12mm stainless steel screws



Assembly

Step 08

Attaching the mounting plate

Lead the cable through the cable gland into the base and screw it tight.

Attache the Pico mounting plate on the threaded metal pins according to the provided holes on the mounting plate.

Place the sealing washers and nuts onto the metal pins and tighten them up.

Attention!

It is mandatory that you use sealing washers to ensure the tightness is guaranteed.



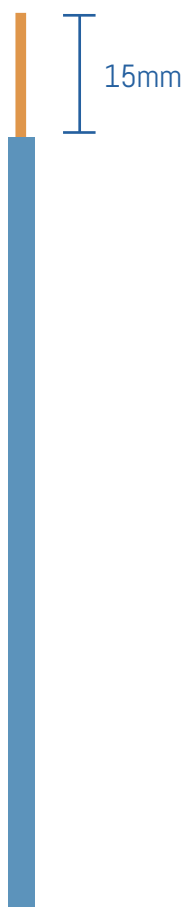
Assembly

Step 09

Wiring mounting plate

You have to strip approx. 15 mm of the strands.

Then connect the strands to the mounting plate according to the labelling on the mounting plate.



Do you have any questions?
Find more information on our
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