OUNEVA GROUP

# INSTALLATION GUIDE

29.4.2025

## Product data

| Product code | Product name | $I_{n\ Al}$ | $I_{n\ Cu}$ | $U_n$ | US specific | | |
|---|---|---|---|---|---|---|---|
| | | | | | $I_{max\ Al}$ | $I_{max\ Cu}$ | $U_{max}$ |
| **VC05-0028** | OTL-connector 1xAl/Cu 25-150mm² (Grey) | 290 A | 320 A | 1000 V AC / 1500 V DC | 240 A | 285 A | 1000 V |
| **VC05-0029** | OTL-connector 1xAl/Cu 25-150mm² (Blue) | 290 A | 320 A | 1000 V AC / 1500 V DC | 240 A | 285 A | 1000 V |
| **VC05-0030** | OTL-connector 1xAl/Cu 25-150mm² (Yellow/Green) | 290 A | 320 A | 1000 V AC / 1500 V DC | 240 A | 285 A | 1000 V |
| **VC05-0475** | OTL-connector 1xAl/Cu 25-150mm² (Red) | 290 A | 320 A | 1000 V AC / 1500 V DC | 240 A | 285 A | 1000 V |
| **VC05-0476** | OTL-connector 1xAl/Cu 25-150mm² (Black) | 290 A | 320 A | 1000 V AC / 1500 V DC | 240 A | 285 A | 1000 V |

## Installation

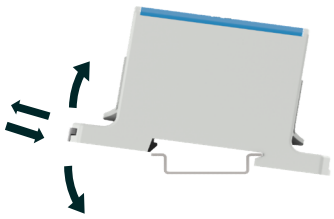
### Certification and approval



CE RoHS FI UL

### DIN-rail and screw (M5) mounting

**DIN-rail mounting**
Set the connector on DIN-rail.
Push until connector locks down.



**Removing from DIN-rail**
Release the plastic snap with a screwdriver. Lift the connector.



Use max. Ø5 mm screw.

## Connection

Screw size

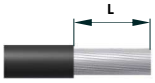
| | |
|---|---|
| **Screw** | **M16** |
| **SW** | **6** |




| | | |
|---|---|---|
| Tightening torque **M** | 25-50 mm² (1/0-2 AWG) | **14 Nm** |
| | 70-150 mm² (350 kcmil-2/0 AWG) | **35 Nm** |

| | |
|---|---|
| Conductor range | **1xAl/Cu 25-150 mm²** |
| Max. wire cross section | **150 mm²** |

Stripping length **L** **20 mm**




### Copper conductors

Max. 3 X CU / Conductor contact space



≤ 150 mm² total

### Aluminium conductors

1 X AL / Conductor contact space



Anti-corrosion paste: e.g. Penetrox

### Supported IEC 60228 -conductors



Class 5 & 6 (fine stranded) Using ferrule is recommended

Class 1 & 2 (solid and stranded)

### Sector shaped cable



Pre-round the cable

### Conductor installation

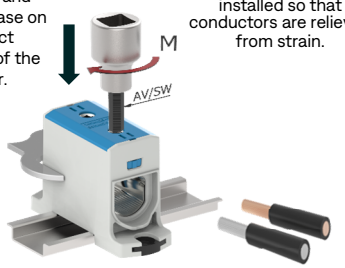
Remove any oxide layer by brushing with a brass or a steel brush.



Use protective grease (e.g. Penetrox) and brush grease on the contact surfaces of the conductor.

1-pole connector

Support connector during tightening the screws.
Ensure the torque after tightening, tighten twice if necessary.
Connector must be installed so that conductors are relieved from strain.




### Marking

5 mm width (Eg. Partex TX)




Optional terminal shroud
OD02-0550

### Attention!

The installation must always be done in accordance with the international standard in compliance with national legislation.

Each protective or neutral conductor must have their own conductor space.
SFS 6000-7-729

## Cross section and max. number of Cu- conductors / contact space (Al- conductors in parenthesis)

| 1,5 mm² | 2,5 mm² | 6 mm² | 10 mm² | 16 mm² | 25 mm² | 35 mm² | 50 mm² |
|---|---|---|---|---|---|---|---|
| - | - | - | - | - | **3 (1)** | **3 (1)** | **3 (1)** |

The specified max. amount of conductors refers only to industrially installed terminals.

| 70 mm² | 95 mm² | 120 mm² | 150 mm² | 185 mm² | 240 mm² | 300 mm² | 400 mm² |
|---|---|---|---|---|---|---|---|
| **2 (1)** | **1 (1)** | **1 (1)** | **1 (1)** | - | - | - | - |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