OUNEVA GROUP

INSTALLATION GUIDE

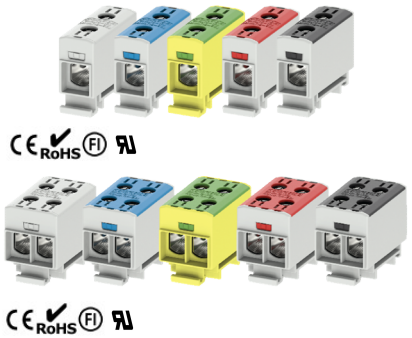
24.4.2025

Product data

Product code	Product name	$I_{n\,Al}$	$I_{n\,Cu}$	U_n	US specific		
					$I_{max\,Al}$	$I_{max\,Cu}$	U_{max}
VC05-0013	OTL-connector 1xAl/Cu 1,5-50mm² (Grey)	145 A	160 A	1000 V AC / 1500 V DC	120 A	150 A	1000 V
VC05-0046	OTL-connector 1xAl/Cu 1,5-50mm² (Blue)	145 A	160 A	1000 V AC / 1500 V DC	120 A	150 A	1000 V
VC05-0047	OTL-connector 1xAl/Cu 1,5-50mm² (Yellow/Green)	145 A	160 A	1000 V AC / 1500 V DC	120 A	150 A	1000 V
VC05-0142	OTL-connector 1xAl/Cu 1,5-50mm² (Red)	145 A	160 A	1000 V AC / 1500 V DC	120 A	150 A	1000 V
VC05-0143	OTL-connector 1xAl/Cu 1,5-50mm² (Black)	145 A	160 A	1000 V AC / 1500 V DC	120 A	150 A	1000 V
VC05-0016	OTL-connector 2xAl/Cu 1,5-50mm² (Grey)	290 A	320 A	1000 V AC / 1500 V DC	120 A	2x150 A	1000 V
VC05-0048	OTL-connector 2xAl/Cu 1,5-50mm² (Blue)	290 A	320 A	1000 V AC / 1500 V DC	120 A	2x150 A	1000 V
VC05-0049	OTL-connector 2xAl/Cu 1,5-50mm² (Yellow/Green)	290 A	320 A	1000 V AC / 1500 V DC	120 A	2x150 A	1000 V
VC05-0146	OTL-connector 2xAl/Cu 1,5-50mm² (Red)	290 A	320 A	1000 V AC / 1500 V DC	120 A	2x150 A	1000 V
VC05-0147	OTL-connector 2xAl/Cu 1,5-50mm² (Black)	290 A	320 A	1000 V AC / 1500 V DC	120 A	2x150 A	1000 V

Installation

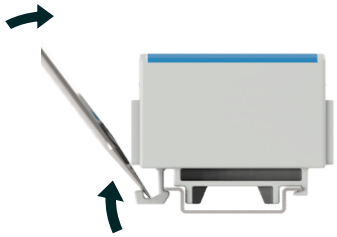
Certification and approval



DIN-rail 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.

Connection

Screw size

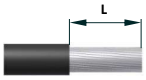
Screw	**M10**
SW	**5**



Tightening torque **M**

1,5-2,5 mm² (14-16 AWG)	**1,5 Nm**
4-10 mm² (8-12 AWG)	**5 Nm**
16-50 mm² (1/0-6 AWG)	**10 Nm**

Stripping length **L** **15 mm**



Conductor range	**1xAl/Cu 1,5-50 mm²**	**2xAl/Cu 1,5-50 mm²**
Max. wire cross section	**50 mm²**	**50 mm²**

Copper conductors

Max. 3 X CU / Conductor contact space



≤ 50 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



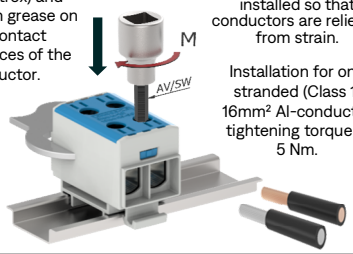
Pre-round the cable

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.



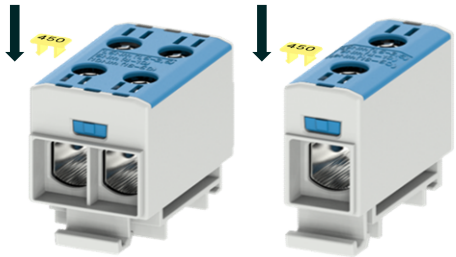
1-pole connector

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.

Installation for one stranded (Class 1) 16mm² Al-conductor tightening torque is 5 Nm.

Marking and terminal shroud

5 mm width (Eg. Partex TX)



Optional terminal shroud OD02-0564

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)**	**3 (1)**	**3 (1)**	**2 (1)**	**1 (1)**	**1 (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
-	-	-	-	-	-	-	-

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