Product data

Product code	Product name	$I_{n\ Al}$	$I_{n\ Cu}$	U_n	US specific		
					$I_{max\ Al}$	$I_{max\ Cu}$	U_{max}
VC06-0020	Device connector 1xAl/Cu 16-95	180 A	230 A	690 V	-	-	-
VC06-0015	Device connector 1xAl/Cu 16-95 M	180 A	230 A	690 V	-	-	-
VC06-0023	Device connector 1xAl/Cu 16-95 L	180 A	230 A	690 V	-	-	-
VC06-0025	Device connector 1xAl/Cu 16-95 ML	180 A	230 A	690 V	-	-	-
VC06-0024	Device connector 1xAl/Cu 16-95 R	180 A	230 A	690 V	-	-	-
VC06-0026	Device connector 1xAl/Cu 16-95 MR	180 A	230 A	690 V	-	-	-
VC06-0021	Device connector 1xAl/Cu 16-95 RB	180 A	230 A	690 V	-	-	-
VC06-0016	Device connector 1xAl/Cu 16-95 RBM	180 A	230 A	690 V	-	-	-
VC06-0028	Device connector 1xAl/Cu 16-95 RBL	180 A	230 A	690 V	-	-	-
VC06-0031	Device connector 1xAl/Cu 16-95 RBML	180 A	230 A	690 V	-	-	-
VC06-0029	Device connector 1xAl/Cu 16-95 RBR	180 A	230 A	690 V	-	-	-
VC06-0030	Device connector 1xAl/Cu 16-95 RBMR	180 A	230 A	690 V	-	-	-
VC06-0022	Device connector 1xAl/Cu 16-95 SB	180 A	230 A	690 V	-	-	-
VC06-0017	Device connector 1xAl/Cu 16-95 SBM	180 A	230 A	690 V	-	-	-

Installation

Certification and approval	Grey Housing RAL 7035/PA66, Tin plated Aluminium



(Standard) VC06-0020 VC06-0015 | **L (Left handed)** VC06-0023 VC06-0025 | **R (Right handed)** VC06-0024 VC06-0026 | **RB (Round Bar)** VC06-0021 VC06-0016 | **RBL (Round Bar Left handed)** VC06-0028 VC06-0031 | **RBR (Round Bar Right handed)** VC06-0029 VC06-0030 | **SB (Screw Bar)** VC06-0022 VC06-0017

Device connector is a universal terminal series for connecting aluminium and copper conductors to equipment. Body is made of tin plated aluminium and housing is made of polyamide (V0). Connectors are IP20.

Installation instructions made by the manufacturer of specific device must be applied during the installation.

M = Model has input space for measurement connector

CE RoHS

Connection

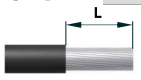
Screw		
	Screw	**M14**
	SW	**6**
	Screw measurement	**M3,5**
	SW measurement	**Posidriv 1**

SW

Tightening torque **M**		
	16-50 mm²	**12 Nm**
	70-95 mm²	**20 Nm**
	(measurement) Cu 0,75-2,5 mm²	**1-2 Nm**

Conductor range	**1xAl/Cu 16-95 mm²**
Max. wire cross section	**95 mm²**

Stripping length L_1	**28 mm**
Stripping length L_2	**5 mm**

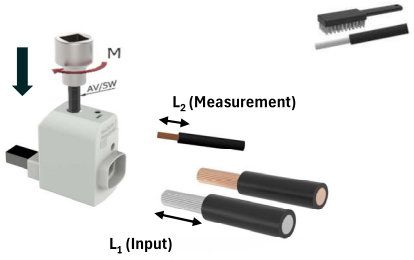


Copper conductors	Aluminium conductors	Supported IEC 60228 -conductors	Sector shaped cable
Max. 3 X CU / Conductor contact space	1 X AL / Conductor contact space	Class 5 & 6 (fine stranded) Using ferrule is recommended	Pre-round the cable
≤ 95 mm² total	Anti-corrosion paste: e.g. Penetrox	Class 1 & 2 (solid and stranded)	

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.



Can be used for both **copper- or aluminium conductors.** With the aluminium conductors, it's recommended to use anti-corrosion paste. (e.g. Penetrox).

It is allowed to use max. amount of three adjacent cross-sections in one space (Copper conductors). The nominal max. cross-section value must not be exceeded.

When using aluminium conductors, it is allowed to use only one conductor / space.

We recommend a ferrule when using a fine-stranded conductor.

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.

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)**	**2 (1)**	**1 (1)**

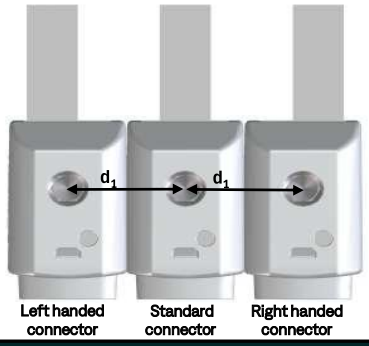
The specified max. amount of conductors refers only to industrially installed terminals.

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

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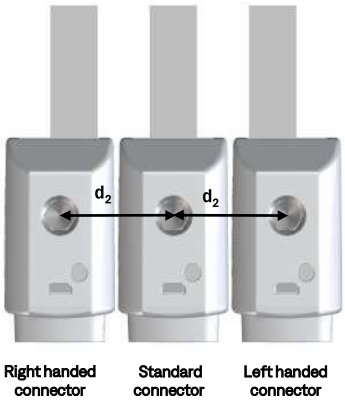
Left and right handed connectors (Mounting method 1)



Installation distance d_1 **>23,4mm**

Notel When using the mounting method 1, required installation distance (d_1) fullfills even if the conductor housings are facing each other (see picture)

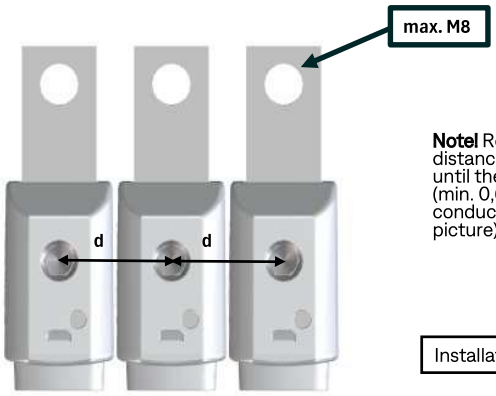
Left and right handed connectors (Mounting method 2)



Installation distance d_2 **>24 mm**

Notel When using the mounting method 2, required installation distance (d_2) does not fullfill until the necessary air gap (min. 0,6 mm) between conductor housings exists (see picture)

Mounting of screw bar connectors (VC06-0017, VC06-0022)



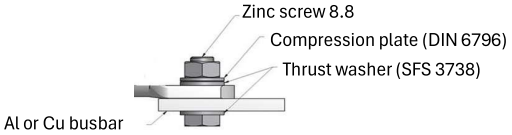
Notel Required installation distance (**d**) does not fullfill until the necessary air gap (min. 0,6 mm) between conductor housings exists (see picture)

Installation distance **d >24 mm**

When connector is installed on aluminium busbar, the surface of busbar must be brushed with a wire brush and lubricated with connection grease. In damp areas, the use of a protective grease is recommended (e.g. Penetrox). Additionally, thrust washer should be used in the busbar side on compression plate. (eg. DIN 6796)

Tightening torques for 8.8 class steel screws

Thread	Tightening torque (Nm)
M5	5
M6	9
M8	22
M10	44



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

1,5 mm^2	2,5 mm^2	6 mm^2	10 mm^2	16 mm^2	25 mm^2	35 mm^2	50 mm^2
-	-	-	-	**3 (1)**	**3 (1)**	**2 (1)**	**1 (1)**

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

70 mm^2	95 mm^2	120 mm^2	150 mm^2	185 mm^2	240 mm^2	300 mm^2	400 mm^2
1 (1)	**1 (1)**	-	-	-	-	-	-

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