

Product data

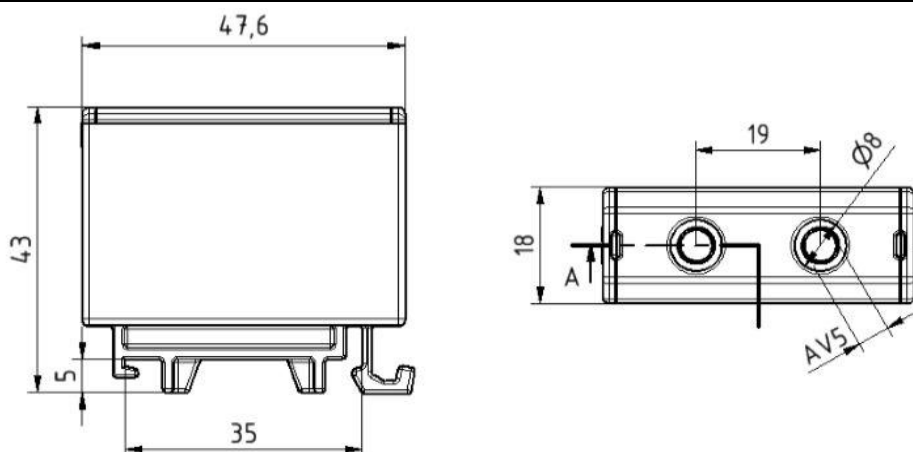
Product code	VC05-0046	STK-code	1914104	EAN-code	6410019141047
Product name	OTL-connector 1xAl/Cu 1,5-50mm ² (Blue)				
Wires	1xAl/Cu 1,5-50mm ²				

Technical data

Nominal current	Cu	160	A
	Al	145	A
Nominal voltage		1000	V
Max. Current (US)	Cu	150	A
	Al	120	A
Max. Voltage (US)		600	V
Number of pole		1	pcs
Max. Cross section		50	mm ²
Tightening torque	1,5-2,5 mm ²	1,5	Nm
	4-10 mm ²	5	Nm
	16-50 mm ²	10	Nm
	-	-	Nm
Max. Operating temperature		80	°C
Weight		30	g
IP-protection		IP20	
Standards	EN 61238-1; EN60947-7-1; UL1059		
Color/ Material-flame rating	Blue RAL 5015/ PA66-V0		
Mounting/ Connection	DIN-rail mounting		


Description

OTL-connectors are designed to be used connecting and branching aluminium and copper conductors. The body is made of tin plated aluminium.

Drawing

Package

Package	Box	Pcs / Package	50	Weight [kg]	1,60
Length [mm]	210	Width [mm]	155	Height [mm]	105

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 1,5-50mm ² (Grey)	145 A	160 A	1000 V	120 A	150 A	600 V
VC05-0046	OTL-connector 1xAl/Cu 1,5-50mm ² (Blue)	145 A	160 A	1000 V	120 A	150 A	600 V
VC05-0047	OTL-connector 1xAl/Cu 1,5-50mm ² (Yellow/Green)	145 A	160 A	1000 V	-	-	-
VC05-0142	OTL-connector 1xAl/Cu 1,5-50mm ² (Red)	145 A	160 A	1000 V	-	-	-
VC05-0143	OTL-connector 1xAl/Cu 1,5-50mm ² (Black)	145 A	160 A	1000 V	-	-	-

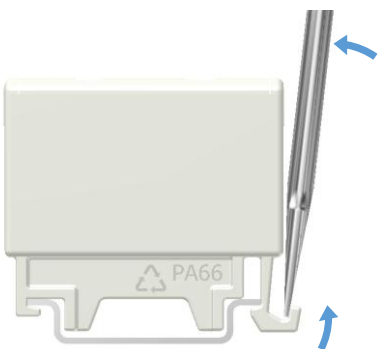
Installation

Type	DIN-rail mounting
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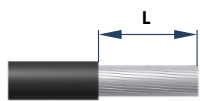
DIN-rail mounting
Set the connector to DIN-rail.
See picture. Push until "click"

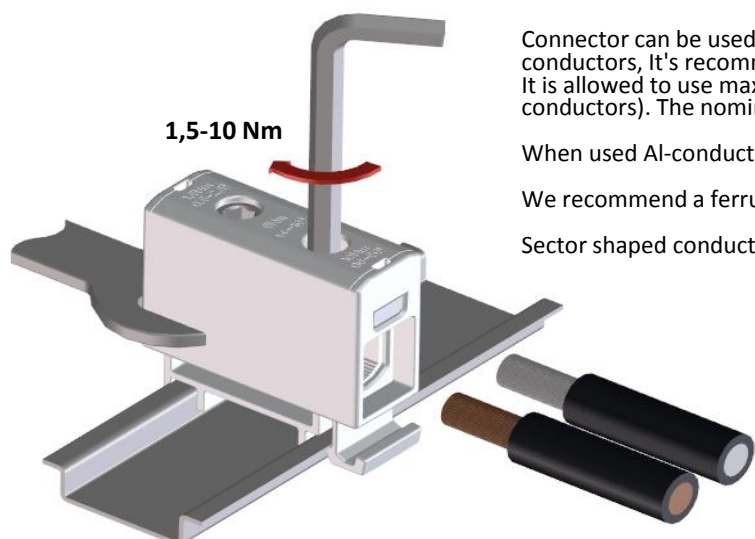


Removing from DIN-rail
Release the plastic snap with
screwdriver. Lift the connector.



Connection

Screw 	Thread	M10	Tightening torque	1,5-2,5 mm ²	1,5 Nm	Stripping length L 
	SW	5		4-10 mm ²	5 Nm	
				16-50 mm ²	10 Nm	
				-	-	
Max. wire cross section					50 mm²	



1,5-10 Nm

Installation

Connector can be used for both **copper- or aluminium conductors**. With the Al-conductors, It's recommended to use anti-corrosion paste. (e.g. Penetrox). It is allowed to use max. of three adjacent cross sections in one space (Copper conductors). The nominal max. cross section value must not be exceeded.

When used Al-conductors, it is allowed to use only one conductor/space.

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

Sector shaped conductors must be pre-rounded before installation.

Each protective or neutral conductor must have their own conductor space. SFS 6000:2007 clause 810.7

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

1,5 mm2	2,5 mm2	6 mm2	10 mm2	16 mm2	25 mm2	35 mm2	50 mm2	The specified max. amount of conductors refers only to industrially installed terminals.		
3 (1)	3 (1)	3 (1)	3 (1)	3 (1)	2 (1)	1 (1)	1 (1)			
			70 mm2	95 mm2	120 mm2	150 mm2	185 mm2	240 mm2	300 mm2	400 mm2
			-	-	-	-	-	-	-	-