

Product data

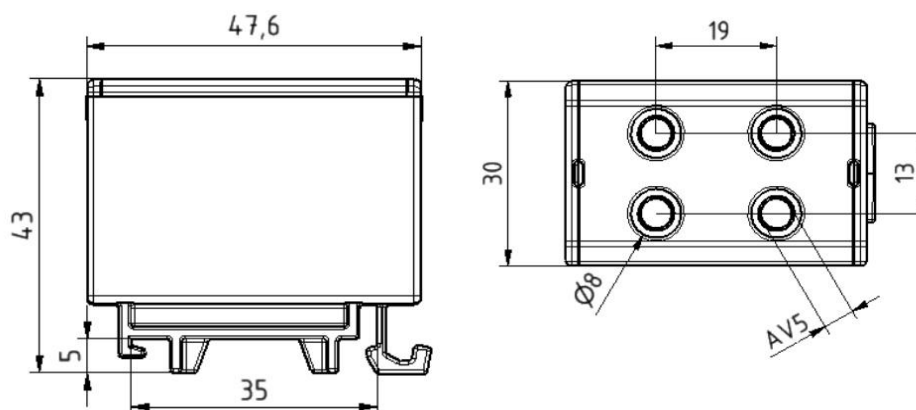
Product code	VC05-0048	STK-code	1914107	EAN-code	6410019141078
Product name	OTL-connector 2xAl/Cu 1,5-50mm ² (Blue)				
Wires	2xAl/Cu 1,5-50mm ²				

Technical data

Nominal current	Cu	320	A
	Al	290	A
Nominal voltage		1000	V
Max. Current (US)	Cu	300	A
	Al	240	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		90	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

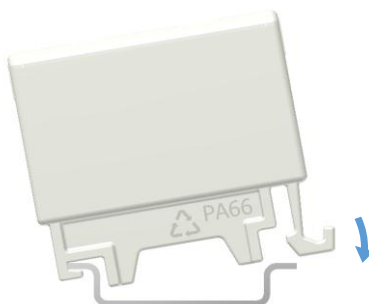
Package	Box	Pcs / Package	15	Weight [kg]	0,80
Length [mm]	120	Width [mm]	130	Height [mm]	100

Product data

Product code	Product name	I _{n Al}	I _{n Cu}	U _n	US specific		
					I _{max Al}	I _{max Cu}	U _{max}
VC05-0016	OTL-connector 2xAl/Cu 1,5-50mm ² (Grey)	290 A	320 A	1000 V	240 A	300 A	600 V
VC05-0048	OTL-connector 2xAl/Cu 1,5-50mm ² (Blue)	290 A	320 A	1000 V	240 A	300 A	600 V
VC05-0049	OTL-connector 2xAl/Cu 1,5-50mm ² (Yellow/Green)	290 A	320 A	1000 V	-	-	-
VC05-0146	OTL-connector 2xAl/Cu 1,5-50mm ² (Red)	290 A	320 A	1000 V	-	-	-
VC05-0147	OTL-connector 2xAl/Cu 1,5-50mm ² (Black)	290 A	320 A	1000 V	-	-	-

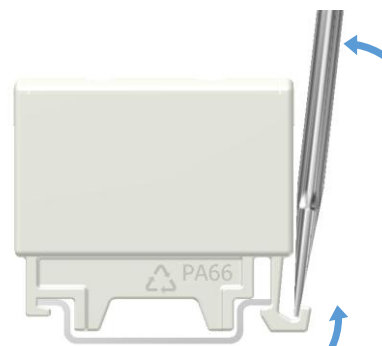
Installation

Type	DIN-rail mounting
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DIN-rail mounting

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



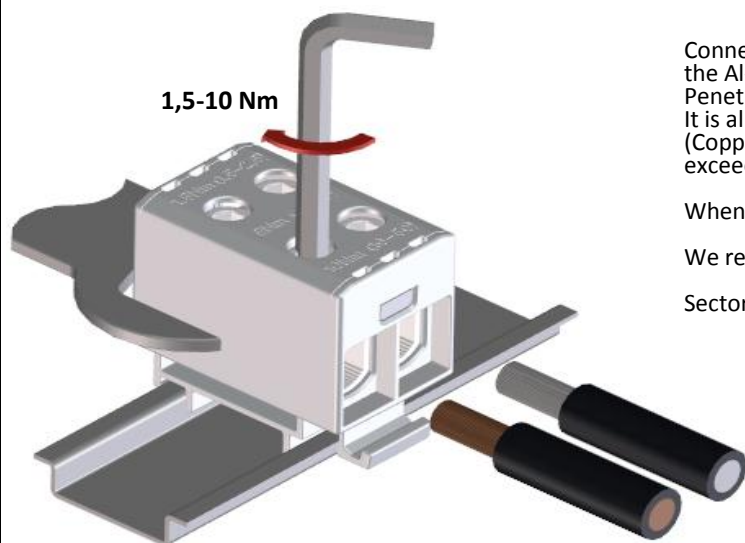
Removing from DIN-rail

Release the plastic snap with screwdriver. Lift the connector.

Connection

Screw 	Thread	M10	Tightening torque	1,5-2,5 mm²	1,5 Nm	Stripping length L	 15 mm	
	SW	5			4-10 mm²			5 Nm
					16-50 mm²			10 Nm
					-			-
				Max. Wire cross section	50 mm²			

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 AI-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)

Cross section and max. number of conductors / type of conductors in parentheses								The specified max. amount of conductors refers only to industrially installed terminals.			
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)				
				70 mm2	95 mm2	120 mm2	150 mm2	185 mm2	240 mm2	300 mm2	400 mm2
				-	-	-	-	-	-	-	-