



OTL Overgangsklemmer

OTL universal connectors

GENERAL: The OTL universal connectors offer the best quality on the market in addition to features, that increase the safety and ease of installation of the connectors and enable versatile end usage applications. Pre-greased contact spaces and the connection done with hex screws guarantee easy and quick installation.

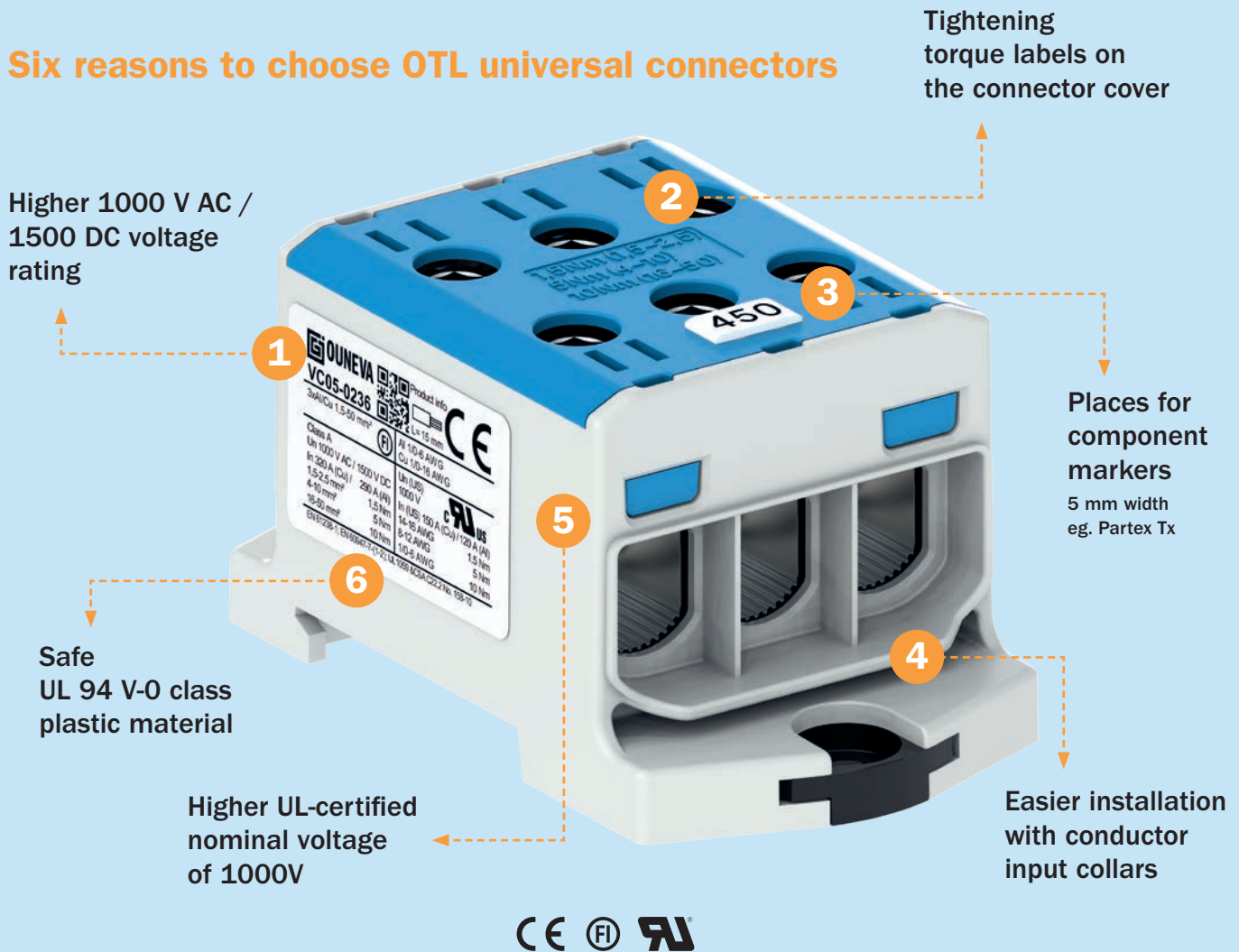
The compact size of the connectors ensures efficient use of space even in tighter installation spaces.

USE: OTL universal connectors are used for branching and connecting aluminium and copper cables.

MATERIALS: The body of the OTL connectors is tin plated aluminium. Insulating cover is made of UL 94 V-0 polyamide.

STANDARDS: EN 60947-1-1:2009, EN 61238-1:2003, UL1059 and CSA C22.2 No 158-10

Six reasons to choose OTL universal connectors



Certification and product safety

When choosing electrical connector, always make sure to select reliable and safe, certified connector. The requirements for connectors used with copper conductors inside switchgears and similar appliances are specified in standard EN 60947-1-1:2009.

All connectors used inside switchgears or similar appliances must fulfil these requirements.

The requirements for connectors designated to be used with aluminium power cables are specified in standard EN 61238-1:2003.

Connectors that have been tested and certified in accordance with standard EN 61238-1:2003 are divided into two classes.

- Class A (short circuit tested) - usage examples: feed-in connections, switchgears/appliances, universal
- Class B (not short circuit tested) - usage limited only to special circuits protected by fast-acting fuses

Ouneva OTL-connectors are tested and certified class A connectors, that are compatible with copper and aluminium conductors.

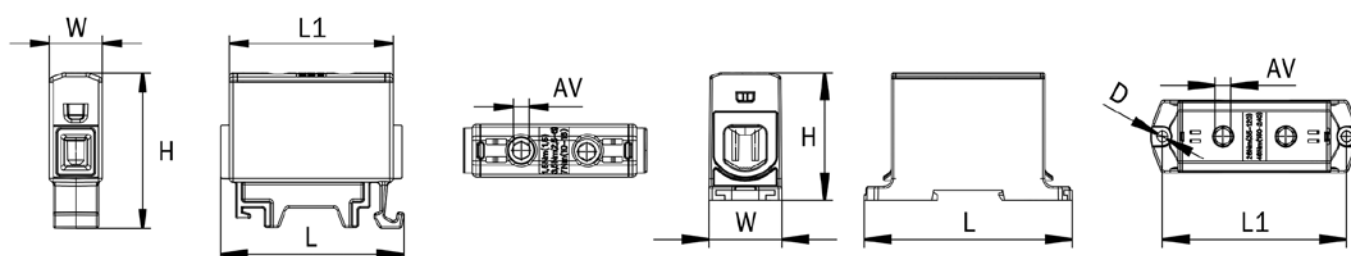
For choosing safe and reliable connector, always make sure that the terminal is equipped with CE and Class A markings with the symbol of certifying institute, for example FI -mark.

OTL universal connectors 1xAl/Cu 1,5-300 mm²



STK code	Product code	Color	Connector (mm ²)	Un (V)	In (A)	Tightening torque	L (mm)	L1 (mm)	H (mm)	W (mm)	AV (mm)	D (mm)	Weight (g)	UL approved
19 141 00	VC05-0010	Grey	1xAl/Cu 1,5-16	1000 (AC) / 1500 (DC)	82 (Cu) / 75 (Al)	1,5 Nm (1,5 mm ²), 3,5 Nm (2,5-6 mm ²), 7 Nm (10-16 mm ²)	46,8	42	39,7	13,5	4	-	17	Yes
19 141 01	VC05-0001	Blue												Yes
19 141 02	VC05-0045	Yellow / Green												Yes
19 120 10	VC05-0140	Red												Yes
19 120 14	VC05-0141	Black												Yes
19 120 59	VC05-0191	Grey	1xAl/Cu 2,5-35	1000 (AC) / 1500 (DC)	135 (Cu) / 120 (Al)	3 Nm (2,5-16 mm ²), 6 Nm (25-35 mm ²)	47	45	40	16	4	-	27	Yes
19 120 60	VC05-0192	Blue												Yes
19 120 61	VC05-0193	Yellow / Green												Yes
19 123 56	VC05-0245	Red												Yes
19 123 55	VC05-0244	Black												Yes
19 141 03	VC05-0013	Grey	1xAl/Cu 1,5-50	1000 (AC) / 1500 (DC)	160 (Cu) / 145 (Al)	1,5 Nm (1,5-2,5 mm ²), 5 Nm (4-10 mm ²), 10 Nm (16-50 mm ²)	51,6	48	43	18	5	-	31	Yes
19 141 04	VC05-0046	Blue												Yes
19 141 05	VC05-0047	Yellow / Green												Yes
19 120 24	VC05-0142	Red												Yes
19 120 25	VC05-0143	Black												Yes
19 141 12	VC05-0019	Grey	1xAl/Cu 6-95	1000 (AC) / 1500 (DC)	245 (Cu) / 220 (Al)	12 Nm (6-25 mm ²), 22 Nm (35-95 mm ²)	84	72	51	25	6	5,5	68	Yes
19 141 13	VC05-0050	Blue												Yes
19 141 14	VC05-0051	Yellow / Green												Yes
19 120 26	VC05-0144	Red												Yes
19 120 27	VC05-0145	Black												Yes
19 141 24	VC05-0028	Grey	1xAl/Cu 25-150	1000 (AC) / 1500 (DC)	320 (Cu) / 290 (Al)	14 Nm (25-50 mm ²), 35 Nm (70-150 mm ²)	84	72	54	31	6	5,5	103	Yes
19 141 25	VC05-0029	Blue												Yes
19 141 26	VC05-0030	Yellow / Green												Yes
19 143 38	VC05-0475	Red												Yes
19 143 39	VC05-0476	Black												Yes
19 141 30	VC05-0034	Grey	1xAl/Cu 35-240	1000 (AC) / 1500 (DC)	425 (Cu) / 380 (Al)	26 Nm (35-120 mm ²), 46 Nm (150-240 mm ²)	106	94	65	37	8	5,5	194	Yes
19 141 31	VC05-0035	Blue												Yes
19 141 32	VC05-0036	Yellow / Green												Yes
19 143 40	VC05-0477	Red												Yes
19 143 41	VC05-0478	Black												Yes
19 123 70	VC05-0213	Grey	1xAl/Cu 95-300	1000 (AC) / 1500 (DC)	490 (Cu) / 440 (Al)	30 Nm (95-150 mm ²), 60 Nm (185-300 mm ²)	122	110	71	44	8	5,5	195	No
19 123 71	VC05-0214	Blue												No
19 123 72	VC05-0215	Yellow / Green												No
19 143 65	VC05-0493	Red												No
20 143 66	VC05-0494	Black												No

With screw or DIN-rail mounting. The DIN-rail mounting is equipped with the ClickSet™ mounting mechanism, which speeds up installation.

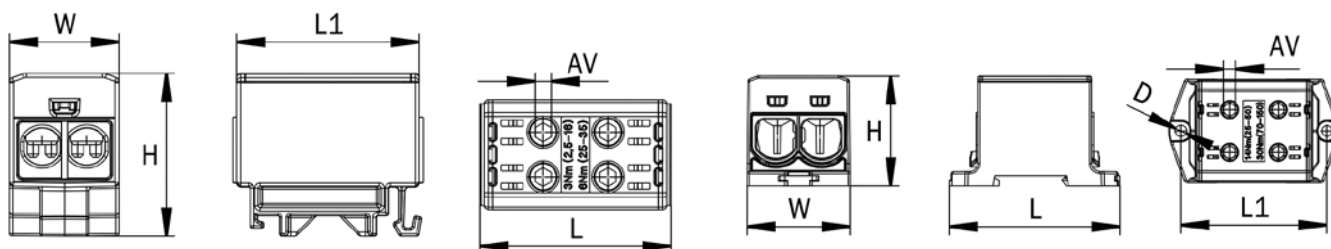


OTL universal connectors 2xAl/Cu 1,5-240 mm²



STK code	Product code	Color	Connector (mm ²)	Un (V)	In (A)	Tightening torque	L (mm)	L1 (mm)	H (mm)	W (mm)	AV (mm)	D (mm)	Weight (g)	UL approved
19 120 73	VC05-0153	Grey	2xAl/Cu 2,5-35	1000 (AC) / 1500 (DC)	270 (Cu) / 120 (Al)	3 Nm (2,5-16 mm ²), 6 Nm (25-35 mm ²)	47	45	40	27	4	-	44	Yes
19 120 74	VC05-0154	Blue												Yes
19 120 75	VC05-0155	Yellow / Green												Yes
19 143 42	VC05-0479	Red												Yes
19 143 43	VC05-0480	Black												Yes
19 141 06	VC05-0016	Grey	2xAl/Cu 1,5-50	1000 (AC) / 1500 (DC)	320 (Cu) / 290 (Al)	1,5 Nm (1,5-2,5 mm ²), 5 Nm (4-10 mm ²), 10 Nm (16-50 mm ²)	51,6	48	43	30	5	-	51	Yes
19 141 07	VC05-0048	Blue												Yes
19 141 08	VC05-0049	Yellow / Green												Yes
19 120 29	VC05-0146	Red												Yes
19 120 30	VC05-0147	Black												Yes
19 141 15	VC05-0042	Grey	2xAl/Cu 6-95	1000 (AC) / 1500 (DC)	490 (Cu) / 220 (Al)	12 Nm (6-25 mm ²), 22 Nm (35-95 mm ²)	84	72	51	42	6	5,5	121	Yes
19 141 16	VC05-0043	Blue												Yes
19 141 17	VC05-0044	Yellow / Green												Yes
19 120 38	VC05-0148	Red												Yes
19 120 39	VC05-0149	Black												Yes
19 141 27	VC05-0031	Grey	2xAl/Cu 25-150	1000 (AC) / 1500 (DC)	640 (Cu) / 290 (Al)	14 Nm (25-50 mm ²), 30 Nm (70-150 mm ²)	84	72	54	51	6	5,5	165	Yes
19 141 28	VC05-0032	Blue												Yes
19 141 29	VC05-0033	Yellow / Green												Yes
19 143 44	VC05-0481	Red												Yes
19 143 45	VC05-0482	Black												Yes
19 141 33	VC05-0037	Grey	2xAl/Cu 35-240	1000 (AC) / 1500 (DC)	850 (Cu) / 380 (Al)	26 Nm (35-120 mm ²), 40 Nm (150-240 mm ²)	106	94	65	60	8	5,5	335	Yes
19 141 34	VC05-0038	Blue												Yes
19 141 35	VC05-0039	Yellow / Green												Yes
19 143 46	VC05-0483	Red												Yes
19 143 47	VC05-0484	Black												Yes

With screw or DIN-rail mounting. The DIN-rail mounting is equipped with the ClickSet™ mounting mechanism, which speeds up installation.

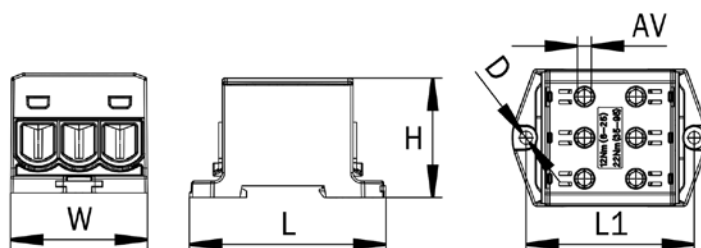


OTL universal connectors 3xAl/Cu 1,5-300 mm²



STK code	Product code	Color	Connector (mm ²)	Un (V)	In (A)	Tightening torque	L (mm)	L1 (mm)	H (mm)	W (mm)	AV (mm)	Weight (g)	UL approved
19 123 58	VC05-0233	Grey	3xAl/Cu 1,5-50	1000 (AC) / 1500 (DC)	320 (Cu) / 290 (Al)	1,5 Nm (1,5-2,5 mm ²), 5 Nm (4-10 mm ²), 10 Nm (16-50 mm ²)	79,5	67,5	40,8	44,6	5	109	Yes
19 123 59	VC05-0236	Blue											Yes
19 123 60	VC05-0237	Yellow / Green											Yes
19 143 48	VC05-0485	Red											Yes
19 143 49	VC05-0486	Black											Yes
19 123 61	VC05-0234	Grey	3xAl/Cu 6-95	1000 (AC) / 1500 (DC)	490 (Cu) / 440 (Al)	12 Nm (6-25 mm ²), 22 Nm (35-95 mm ²)	83,8	72	51	58,5	6	178	Yes
19 123 62	VC05-0238	Blue											Yes
19 123 63	VC05-0239	Yellow / Green											Yes
19 143 50	VC05-0487	Red											Yes
19 143 51	VC05-0488	Black											Yes
19 123 64	VC05-0235	Grey	3xAl/Cu 25-150	1000 (AC) / 1500 (DC)	640 (Cu) / 500 (Al)	14 Nm (25-50 mm ²), 30 Nm (70-150 mm ²)	84	72	54	71,3	6	246	Yes
19 123 65	VC05-0240	Blue											Yes
19 123 66	VC05-0241	Yellow / Green											Yes
19 143 52	VC05-0489	Red											Yes
19 143 53	VC05-0490	Black											Yes
19 143 09	VC05-0381	Grey	3xAl/Cu 95-300	1000 (AC) / 1500 (DC)	630 (Cu) / 630 (Al)	35 Nm (95-150 mm ²), 45 Nm (185-300 mm ²)	120	108	78	101	8	680	No
19 143 10	VC05-0392	Blue											No
19 143 11	VC05-0393	Yellow / Green											No
19 143 54	VC05-0491	Red											No
19 143 55	VC05-0492	Black											No

With screw or DIN-rail mounting. The DIN-rail mounting is equipped with the ClickSet™ mounting mechanism, which speeds up installation.



Multipole OTL universal connectors



OTL universal connectors are also available as multipole variations!





VIKTIG Å VITE VED VALG AV KOBLINGSKLEMMER

Sertifisering og produksikkerhet.

Ved valg av elektriske koblingsklemmer er det viktig å forsikre seg om at man velger sikre og sertifiserte produkter. Ved bruk av klemmer internt i en EI-tavle gjelder EN 60947-7-1.

Det er imidlertid viktig å vite at denne normen kun omhandler tilkobling av Cu-kabler. Kravene til klemmer som er beregnet for tilkobling av aluminiumskabler er spesifisert i standard EN 61238-1. Denne Europa-normen er delt inn i klasse A og B.

Klasse A:

Dette er koblingslemmer beregnet for fordelingstavler og industrielle anlegg som kan bli utsatt for kortslutninger med relativt høy intensitet og varighet. Som en konsekvens av dette er klasse A klemmene egnet til de fleste applikasjoner.

Klasse B:

Dette er koblingslemmer beregnet for fordelinger der overbelastning eller kortslutninger raskt vil bli tatt hånd om av installert beskyttelse f.eks. ultra kvikke sikringer.

Avhengig av applikasjonen blir koblingsklemmene utsatt for følgende tester:

- Klasse A: Varmesyklus- og kortslutnings tester.
- Klasse B: Kun varmesyklustester.

I praksis vil dette si at koblingsklemmer som kun er testet iht klasse B, må ha en tilleggsskyttelse mot overbelastning og kortslutning.

Dvs ultrakvikke sikringer eller lignende.

Koblingsklemmene som vi i Kontram leverer fra vår finske leverandør Ouneva er alle testet iht. EN 61238-1 Klasse A.

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