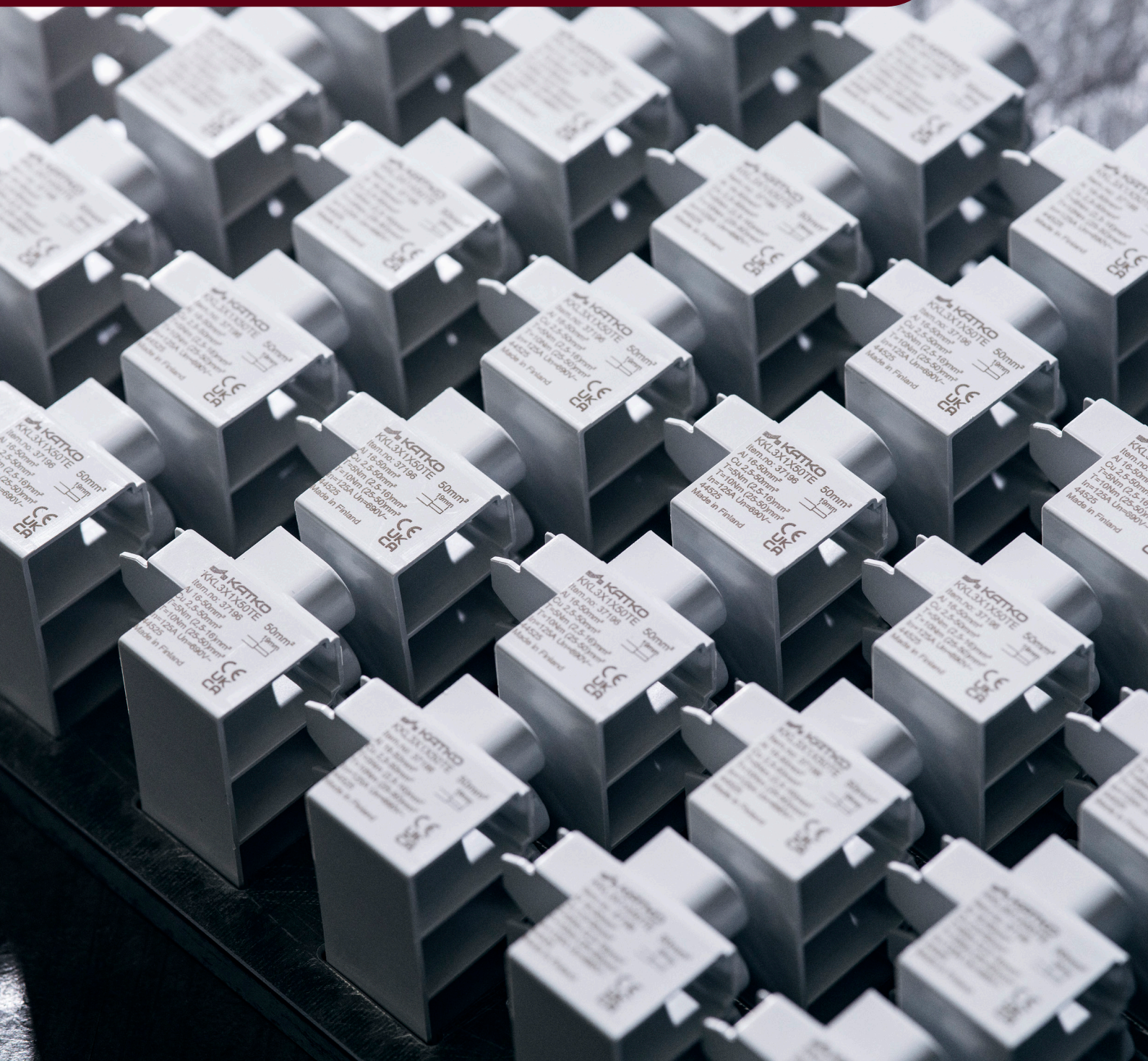
KATKO ConnectSafe

katko.com

Connectors



We continuously improve our products; specifications, features and appearances may change without prior notice.

KATKO's versatile connector solutions for a wide range of applications

ConnectSafe connectors are designed for real-world installations, combining reliable performance, and ease of installation.

KATKO's connectors are suitable for both copper and aluminum conductors (1.5–300 mm²), and they are easy to install on a DIN rail or with screws. The solutions are suitable for a wide range of industrial applications.

All solutions meet the highest international quality and safety standards. Connectors are designed with the user and ease of installation in mind, ensuring a smooth installation and operating experience. Engineered for precision, practicality, and long-term reliability, ConnectSafe solutions ensure dependable performance in electrical systems where efficiency and reliability truly matter.

KL Terminal Blocks

Features

- KL-terminals (excl. KL1X16 models) for DIN rail or screw mounting
- For aluminium (Al) and copper (Cu) cables
- 1000 V AC and 1500 V DC
- Operating temperature -25 °C ...+80 °C
- KLTS protection shroud (50 - 300) also available
- Place for a marker on the cover of the KL terminal block
- Technical data with durable laser markings
- Torque information on the cover
- Available in 1X, 2X and 3X models (2X and 3X models are branch connectors, except for the terminals of the 3X1X model)

Materials used in the terminals

- Terminal material: aluminium (tin-coated and pre-greased)
- The aluminium used in the terminals has four times lower environmental impact compared to the European average
- V0-class enclosure

Standards

- IEC TS 60947-7-5 (aluminium cables)
- IEC 61238-1 A-class
- IEC 60947-7-1 (copper cables)
- IEC 60947-7-2 (copper cables, PE-models)
- UL 1059

TYPE	UN (V)	LN (AL) A	LN (CU) A	AL/CU MM2	TORQUE AL/CU (NM)	NUMBER OF CONDUC-TORS	KEY SIZE	MOUNTING	COLOUR	EAN CODE	UL LISTED
KL1X16	1000 (VAC)	75	76	1,5-16	5	2	Hex 4	DIN	Grey	6419410484364	No
KL1X16N									Blue	6419410484371	
KL1X16PE									Yellow/Green	6419410484562	
KL5X1X16						6			L1, L2, L3, N, PE	6419410484364	
KL1X50	1000 (VAC)/ 1500 (VDC)	160	160	2,5-50	5 (2.5-16 mm2) 10 (25-50 mm2)	2	Hex 5	Screw/DIN	Grey	6419410378250	Yes
KL1X50N									Blue	6419410378267	
KL1X50PE									Yellow/Green	6419410378274	
KL1X50P									Red	6419410338087	No
KL1X50M									Black	6419410338094	No
KL50SET									L1, L2, L3, N, PE	6419410370193	Yes
KL2X50	1000 (VAC)/ 1500 (VDC)	200	320	2,5-50	5 (2.5-16 mm2) 10 (25-50 mm2)	4	Hex 5	Screw/DIN	Grey	6419410378281	Yes
KL2X50N									Blue	6419410378298	
KL2X50PE									Yellow/Green	6419410378304	No
KL2X50P									Red	6419410338124	No
KL2X50M									Black	6419410338131	No
KL3X50	1000 (VAC)	160	160	2,5-50	5 (2.5-16 mm2) 10 (25-50 mm2)	6	Hex 5	Screw/DIN	Grey	6419410205587	No
KL3X50N									Blue	6419410205594	
KL3X50PE									Yellow/Green	6419410205600	
KL3X1X50	1000 (VAC)	160	160	2,5-50	5 (2.5-16 mm2) 10 (25-50 mm2)	6	Hex 5	Screw/DIN	Grey	6419410205617	No
KL3X1X50N									Blue	6419410205624	
KL3X1X50PE									Yellow/Green	6419410205631	

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TYPE	UN (V)	LN (AL) A	LN (CU) A	AL/CU MM2	TORQUE AL/CU (NM)	NUMBER OF CONDUC-TORS	KEY SIZE	MOUNTING	COLOUR	EAN CODE	UL LISTED
KL1X95	1000 (VAC)/ 1500 (VDC)	200	245	6-95	12 (6-50 mm2) 22 (70-95 mm2)	2	Hex 6	Screw/DIN	Grey	6419410378311	Yes
KL1X95N									Blue	6419410378328	
KL1X95PE									Yellow/Green	6419410378335	
KL1X95P									Red	6419410338148	No
KL1X95M									Black	6419410338155	No
KL2X95	1000 (VAC)/ 1500 (VDC)	400	490	6-95	12 (6-50 mm2) 22 (70-95 mm2)	4	Hex 6	Screw/DIN	Grey	6419410378342	Yes
KL2X95N									Blue	6419410378359	
KL2X95PE									Yellow/Green	6419410378366	No
KL2X95P									Red	6419410338162	No
KL2X95M									Black	6419410338179	No
KL3X95	1000 (VAC)	200	245	6-95	12 (6-50 mm2) 22 (70-95 mm2)	6	Hex 6	Screw/DIN	Grey	6419410205648	No
KL3X95N									Blue	6419410205655	
KL3X95PE									Yellow/Green	6419410205662	
KL3X1X95	1000 (VAC)	200	245	6-95	12 (6-50 mm2) 22 (70-95 mm2)	6	Hex 6	Screw/DIN	Grey	6419410205679	No
KL3X1X95N									Blue	6419410205686	
KL3X1X95PE									Yellow/Green	6419410205693	
KL1X150	1000 (VAC)/ 1500 (VDC)	250	320	25-150	12 (25-50 mm2) 22 (70-95mm2) 38 (120-150 mm2)	2	Hex 6	Screw/DIN	Grey	6419410378373	Yes
KL1X150N									Blue	6419410378380	
KL1X150PE									Yellow/Green	6419410378397	No
KL1X150P									Red	6419410338186	No
KL1X150M									Black	6419410338193	No
KL2X150	1000 (VAC)/ 1500 (VDC)	500	640	25-150	12 (25-50 mm2) 22 (70-95mm2) 38 (120-150 mm2)	4	Hex 6	Screw/DIN	Grey	6419410378403	Yes
KL2X150N									Blue	6419410378410	
KL2X150PE									Yellow/Green	6419410378427	No
KL2X150P									Red	6419410338209	No
KL2X150M									Black	6419410338216	No
KL1X240	1000 (VAC)/ 1500 (VDC)	315	425	35-240	25 (35-120 mm2) 55 (150-240 mm2)	2	Hex 8	Screw/DIN	Grey	6419410378434	Yes
KL1X240N									Blue	6419410378441	
KL1X240PE									Yellow/Green	6419410378458	No
KL1X240P									Red	6419410338223	No
KL1X240M									Black	6419410338230	No
KL2X240	1000 (VAC)/ 1500 (VDC)	630	850	35-240	25 (35-120 mm2) 55 (150-240 mm2)	2	Hex 8	Screw/DIN	Grey	6419410378465	Yes
KL2X240N									Blue	6419410378472	
KL2X240PE									Yellow/Green	6419410378489	No
KL2X240P									Red	6419410338247	No
KL2X240M									Black	6419410338254	No
KL1X300	1000 (VAC)/ 1500 (VDC)	400	520	95-300	45 (95-120 mm2) 75 (150-300 mm2)	2	Hex 12	Screw/DIN	Grey	6419410484388	No
KL1X300N									Blue	6419410484395	
KL1X300PE									Yellow/Green	6419410378816	
KL1X300P									Red	6419410338261	No
KL1X300M									Black	6419410338278	No
KL2X300	1000 (VAC)/ 1500 (VDC)	800	1040	95-300	45 (95-120 mm2) 75 (150-300 mm2)	4	Hex 12	Screw/DIN	Grey	6419410484401	No
KL2X300N									Blue	6419410484418	
KL2X300PE									Yellow/Green	6419410378823	
KL2X300P									Red	6419410338285	No
KL2X300M									Black	6419410338292	No

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KKL Cable Connectors

Features

- For aluminium (Al) and copper (Cu) cables
- Available in 1X 2X Models
- 2X versions available in horizontal and vertical configurations
- 2x horizontal and vertical models

Materials used in the terminals

- Terminal material: aluminium (tin-coated and pre-greased)
- The aluminium used in the terminals has four times lower environmental impact compared to the European average

Standards

- IEC 61238-1 A-class

TYPE	UN (V)	LN (AL) A	LN (CU) A	AL MM2	CU MM2	TORQUE AL/CU (NM)	NUMBER OF CON-DUCTORS	KEY SIZE	MOUNTING	EAN CODE
KKL1X16	690	63	63	1,5-16	1,5-16	2,2 (1,5-16mm²)	1	Hex 3	Direct	6419410378496
KKL1X50	690	160	160	16-50	2,5-50	5 (2,5-16mm²) / 10 (25-50mm²)	1	Hex 5	Bolt M8	6419410378571
KKL1X50T2	690	125	125	16-50	2,5-50	5 (2,5-16mm²) / 10 (25-50mm²)	1	Hex 5	Direct	6419410378502
KKL2X50	690	200	320	16-50	16-50	5 (2,5-16mm²) / 10 (25-50mm²)	2	Hex 5	Bolt M8	6419410378588
KKL1X95	690	200	245	6-95	6-95	12 (6-50 mm²) / 22 (70-95 mm²)	1	Hex 6	Bolt M10	6419410200230
KKL2X95	690	400	490	6-95	6-95	12 (6-50 mm²) / 22 (70-95 mm²)	2	Hex 6	Bolt M10	6419410378601
KKL1X120T	690	200	245	16-120	16-120	12 (16-50 mm2) / 22 (70-120 mm2)	1	Hex 6	Direct	6419410378700
KKL1X120T2	690	200	245	16-120	16-120	12 (16-50 mm²) / 22 (70-120 mm²)	1	Hex 6	Direct	6419410378533
KKL1X150	690	250	320	25-150	25-150	12 (25-50 mm²) / 22 (70-95 mm²) / 38 (120-150 mm²)	1	Hex 6	Bolt M10	6419410378618
KKL1X150T2	690	250	320	25-150	25-150	12 (25-50 mm²) / 22 (70-95 mm²) / 38 (120-150 mm²)	1	Hex 6	Direct	6419410378748
KKL2X150	690	500	640	25-150	25-150	12 (25-50 mm²) / 22 (70-95 mm²) / 38 (120-150 mm²)	2	Hex 6	Bolt M12	6419410378625
KKL2X150VB	690	500	640	25-150	25-150	12 (25-50 mm²) / 22 (70-95 mm²) / 38 (120-150 mm²)	2	Hex 6	Bolt M12	6419410484319
KKL1X240	690	315	425	35-240	35-240	25 (35-120 mm²) / 55 (150-240 mm²)	1	Hex 8	Bolt M12	6419410378632
KKL2X240	690	630	850	35-240	35-240	25 (35-120 mm²) / 55 (150-240 mm²)	2	Hex 8	Bolt M12	6419410378649
KKL2X240VB	690	630	850	35-240	35-240	25 (35-120 mm²) / 40 (150-240 mm²)	2	Hex 8	Bolt M12	6419410484333
KKL1X300	690	400	520	95-300	95-300	45 (95-120 mm²) / 75 (150-300 mm²)	1	Hex 12	Bolt M12	6419410484289
KKL2X300	690	800	1040	95-300	95-300	45 (95-120 mm²) / 75 (150-300 mm²)	2	Hex 12	Bolt M12	6419410484296
KKL2X300VB	690	800	1040	95-300	95-300	45 (95-120 mm²) / 75 (150-300 mm²)	2	Hex 12	Bolt M12	6419410484357

See the compatibility table for recommended and common combinations and compatibilities of KATKO cable connectors and switches. You can access the table: katko.com/downloads

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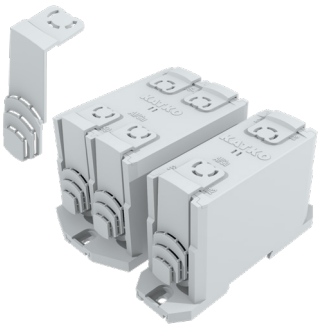
KLTS Terminal Covers for KL-Connectors

TYPE	DESCRIPTION	USE	EAN CODE	PACKAGE SIZE, PCS
KLTS50	Terminal cover, IP20, openings for 2.5–10, 16–25, and 35–50 mm² cables	KL 50 (for 1x, 2x, 3x and 3x1x models)	6419410260173	100
KLTS95	Terminal cover, IP20, openings for 16–25, 35–50 and 70–95 mm² cables	KL 95 (for 1x, 2x, 3x and 3x1x models)	6419410260180	100
KLTS150	Terminal cover, IP20, openings for 25–50, 70–95 and 120–150 mm² cables	KL 150 (for 1x and 2x models)	6419410293874	50
KLTS240	Terminal cover, IP20, openings for 35–50, 70–120 and 150–240 mm² cables	KL 240 (for 1x and 2x models)	6419410293881	50
KLTS300	Terminal cover, IP20, openings for 95–120, 150–185 and 240–300 mm² cables	KL 300 (for 1x and 2x models)	6419410293898	30



Mounting bolts for KKL cable connectors

- Connection bolt kits are available for mounting bolt-connected panel connectors.
- One package for 3- or 4-pole switches contains all necessary bolts, nuts and washers.
- Plastic terminal protection covers are also available.

Connection bolt kit – 6 bolts, 12 washers, 6 nuts & 6 spring washers

TYPE	DESCRIPTION	USE	EAN CODE
M8PP3P	Connection bolt kit: 6 bolts (M8), 12 washers, 6 nuts, 6 spring washers	3P	6419410288344
M10PP3P	Connection bolt kit: 6 bolts (M10), 12 washers, 6 nuts, 6 spring washers	3P	6419410288351
M12PP3P	Connection bolt kit: 6 bolts (M12), 12 washers, 6 nuts, 6 spring washers	3P	6419410288368

Connection bolt kit – 8 bolts, 16 washers, 8 nuts & 8 spring washers

TYPE	DESCRIPTION	USE	EAN CODE
M8PP4P	Connection bolt kit: 8 bolts (M18), 16 washers, 8 nuts, 8 spring washers	4P	6419410287804
M10PP4P	Connection bolt kit: 8 bolts (M10), 16 washers, 8 nuts, 8 spring washers	4P	6419410287811
M12PP4P	Connection bolt kit: 8 bolts (M12), 16 washers, 8 nuts, 8 spring washers	4P	6419410287828

Explore more about our connectors on our website.

Scan the QR code to learn more about our product range.

KATKO

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KATKO is a Finnish electrical industry company, specializing in designing, manufacturing, and delivering leading solutions for the electrical installation sector.

We develop high-quality electrical switches and other installation products. Our work is guided by a strong commitment to sustainability and installer-friendly solutions, combined with a deep understanding of practical applications rooted in Finnish design principles: uncompromising functionality, modern simplicity, and long-lasting durability. With an extensive network of distribution partners and production facilities in Finland and Poland, we ensure the availability of our solutions in over 70 countries worldwide.

Conditions of Sale

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