

UT screw connection terminal blocks

UT ... feed-through terminal blocks



The UT screw terminal block series is characterized by the system features of the CLIPLINE complete system and the following features:

- Space savings thanks to compact design
- Convenient wiring in a confined space
- The large connection space enables rigid and flexible conductors to be connected without a ferrule, even if greater than the nominal cross section
- The cable entry funnel enables conductors to be used with ferrules and plastic collars within the nominal cross section
- The multi-conductor connection offers maximum flexibility and wiring density
- Optimum guidance of screwdriver through closed screw shafts
- For corresponding **torque screwdrivers**, see Catalog 5

Terminal strip service

We produce fully pre-assembled terminal strips for fitting straight into the control cabinet or switch system. This simplifies installation, saves time, and cuts costs.



Notes:
1) For installation notes on the use of accessories for Ex e applications, see page 710.
2) The reducing bridge table should be followed, see page 476.



2.5 (4) mm², 32 A, feed-through terminal block



Ex: Ex IIC
KEMA 04ATEX2048 U / IECEx KEM 06.0027U

Technical data

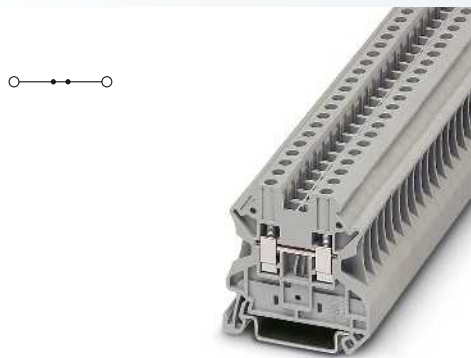
Dimensions	[mm]				
Width	5.2	Length	47.7	Height NS 35/7,5	47.5
Max. electrical data	I_{max} [A]	U_{max} [V]	max. Ø [mm²]	AWG	
	32	1000	0.14 - 4	26 - 12	
	IEC 60947-7-1				⊕
Rated data	IEC	UL/CUL	CSA	IEC/EN 60079-7	
Rated voltage	[V]	1000	600	600	690
Nominal current / cross section	[A] / [mm ²]	24 / 2.5	20 / -	20 / -	22 / 2.5 // 28 / 4
Rated cross section	[mm ²]	2.5	-	-	2.5
Cross section range	AWG	26 - 12	26-12	26-12	26 - 12
Connection capacity		solid	stranded	Ferrule	
				Without / with plastic sleeve	
1 conductor	[mm ²]	0.14 - 4	0.14 - 4	0.14 - 2.5	0.14 - 2.5
Two conductors (of the same type)	[mm ²]	0.14 - 1.5	0.14 - 1.5	0.14 - 1.5	-
Two stranded conductors with a TWIN ferrule	[mm ²]				0.5 - 1.5
General data					
Stripping length	[mm]	9			
Screw thread		M3			
Tightening torque	[Nm]	0.5 - 0.6			
Insulating material		PA			
Inflammability class according to UL 94		V0			

Ordering data

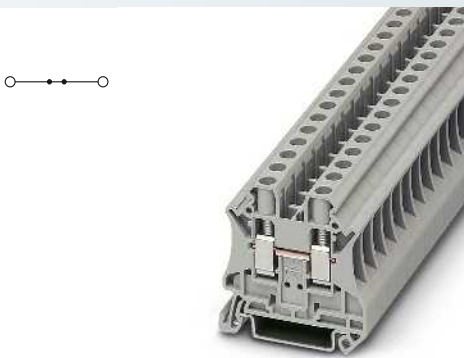
Description	No. of pos.	Color	Type	I _{max}	Order No.	Pcs. / Pkt.
Terminal block, for mounting on NS 35...		gray	UT 2,5		3044076	50
		blue	UT 2,5 BU		3044089	50
		orange	UT 2,5 OG		3045046	50
		red	UT 2,5 RD		3045062	50
		black	UT 2,5 BK		3045088	50

Accessories¹⁾

Pick-off terminal block, for snapping into the lateral guide		gray				
Cover, width 2.2 mm		gray				
Plug-in bridge						
	2	red	D-UT 2,5/10		3047028	50
	3	red	FBS 2-5	24 A	3030161	50
	4	red	FBS 3-5	24 A	3030174	50
	5	red	FBS 4-5	24 A	3030187	50
	10	red	FBS 5-5	24 A	3030190	50
	20	red	FBS 10-5	24 A	3030213	10
			FBS 20-5	24 A	3030226	10
Reducing bridge²⁾						
	2	red				
Reducing bridge²⁾						
	2	red				
Partition plate, 2 mm width		gray	ATP-UT		3047167	50
Test adapter, 4-mm test socket hole		gray	PAI-4-N GY		3032871	10
Test plug metal part, 2.3 mm Ø			MPS-MT		0201744	10
Insulating sleeve, for MPS metal part		red	MPS-IH RD		0201676	10
Modular test plug, for the individual assembly of test plug strips		red	PS-5		3030983	10
Warning label, for UT series		yellow	WS UT 2,5		3047923	10
Screwdriver			SF-SL 0,6X3,5-100 S-VDE		1212587	10
Lateral groove labeling			UC-TM 5, UCT-TM 5 or ZB 5 (see Catalog 5)			



4 (6) mm², 41 A, feed-through terminal block



6 (10) mm², 57 A, feed-through terminal block



10 (16) mm², 76 A, feed-through terminal block



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Technical data			
Width	Length	Height NS 35/7,5	
6.2	47.7	47.5	
I _{max} [A]	U _{max} [V]	max. Ø [mm ²]	AWG
41	1000	0.14 - 6	26 - 10
IEC 60947-7-1			
IEC	UL/CUL	CSA	IEC/EN 60079-7
1000	600	600	690
32 / 4	30 / -	30 / -	30 / 4 // 38 / 6
4	-	-	4
26 - 10	26-10	26-10	26 - 10
solid	stranded	Ferrule	
		Without / with plastic sleeve	
0.14 - 6	0.14 - 6	0.14 - 4	0.14 - 4
0.14 - 1.5	0.14 - 1.5	0.14 - 1.5	-
			0.5 - 2.5
9			
M3			
0.6 - 0.8			
PA			
V0			

Technical data			
Width	Length	Height NS 35/7,5	
8.2	47.7	47.5	
I _{max} [A]	U _{max} [V]	max. Ø [mm ²]	AWG
57	1000	0.2 - 10	24 - 8
IEC 60947-7-1			
IEC	UL/CUL	CSA	IEC/EN 60079-7
1000	600	600	690
41 / 6	50 / -	50 / -	40 / 6 // 50 / 10
6	-	-	6
24 - 8	24-8	24-8	24 - 8
solid	stranded	Ferrule	
		Without / with plastic sleeve	
0.2 - 10	0.2 - 10	0.25 - 6	0.25 - 6
0.2 - 2.5	0.2 - 2.5	0.25 - 1.5	-
			0.5 - 4
10			
M4			
1.5 - 1.8			
PA			
V0			

Technical data			
Width	Length	Height NS 35/7,5	
10.2	47.7	47.5	
I _{max} [A]	U _{max} [V]	max. Ø [mm ²]	AWG
76	1000	0.5 - 16	20 - 6
IEC 60947-7-1			
IEC	UL/CUL	CSA	IEC/EN 60079-7
1000	600	600	690
57 / 10	65 / -	65 / -	54 / 10 // 69 / 16
10	-	-	10
20 - 6	20-6	20-6	20 - 6
solid	stranded	Ferrule	
		Without / with plastic sleeve	
0.5 - 16	0.5 - 16	0.5 - 10	0.5 - 10
0.5 - 4	0.5 - 4	0.5 - 2.5	-
			0.5 - 6
10			
M4			
1.5 - 1.8			
PA			
V0			

Ordering data			
Type	I _{max}	Order No.	Pcs. / Pkt.
UT 4		3044102	50
UT 4 BU		3044115	50
UT 4 OG		3045101	50
UT 4 RD		3045127	50
UT 4 BK		3045143	50

Ordering data			
Type	I _{max}	Order No.	Pcs. / Pkt.
UT 6		3044131	50
UT 6 BU		3044144	50
UT 6 OG		3045169	50
UT 6 RD		3045185	50
UT 6 BK		3045208	50

Ordering data			
Type	I _{max}	Order No.	Pcs. / Pkt.
UT 10		3044160	50
UT 10 BU		3044188	50
UT 10 OG		3046281	50
UT 10 RD		3046304	50
UT 10 BK		3046320	50

Accessories ¹⁾			
D-UT 2,5/10		3047028	50
FBS 2-6	32 A	3030336	50
FBS 3-6	32 A	3030242	50
FBS 4-6	32 A	3030255	50
FBS 5-6	32 A	3030349	50
FBS 10-6	32 A	3030271	10
FBS 20-6	32 A	3030365	10
ATP-UT		3047167	50
PAI-4-N GY		3032871	10
MPS-MT		0201744	10
MPS-IH RD		0201676	10
PS-6		3030996	10
WS UT 4		3047332	10
SF-SL 0,6X3,5-100 S-VDE		1212587	10

Accessories ¹⁾			
D-UT 2,5/10		3047028	50
FBS 2-8	41 A	3030284	10
FBS 3-8	41 A	3030297	10
FBS 4-8	41 A	3030307	10
FBS 5-8	41 A	3030310	10
FBS 10-8	41 A	3030323	10
RB UT 6-(2,5/4)		3047251	10
RB UT 6-ST(2,5/4)		3047264	10
ATP-UT		3047167	50
PAI-4-N GY		3032871	10
PS-8		3031005	10
WS UT 6		3047345	10
SZS 1,0X4,0 VDE		1205066	10

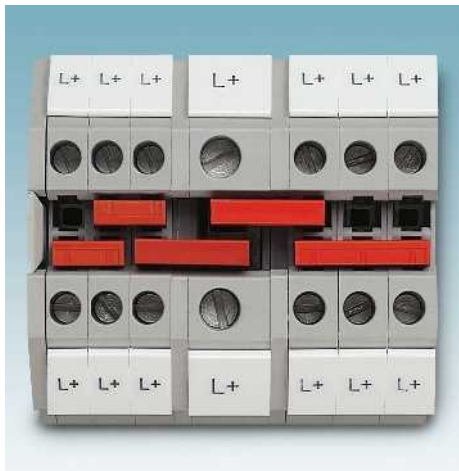
Accessories ¹⁾			
AGK 4-UT 10		3047112	50
D-UT 2,5/10		3047028	50
FBS 2-10	57 A	3005947	10
RB UT 10-(2,5/4)		3047060	10
RB UT 10-ST(2,5/4)		3047086	10
ATP-UT		3047167	50
WS UT 10		3047361	10
SZS 1,0X4,0 VDE		1205066	10

UC-TM 6, UCT-TM 6 or ZB 6 (see Catalog 5)

UC-TM 8, UCT-TM 8 or ZB 8 (see Catalog 5)

UC-TM 10, UCT-TM 10 or ZB 10 (see Catalog 5)

UT ... feed-through terminal blocks

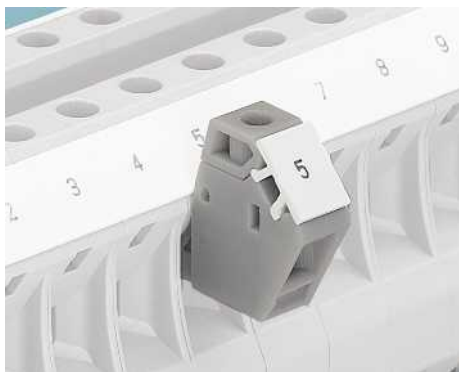


The continuous dual function shaft enables the standard bridge and test function as well as:

- The simple and time-saving potential in-feed and distribution of large currents and cross sections up to 35 mm² with reducing bridges
- The reducing bridges can be used to connect terminal blocks with different connection technologies, e.g., UT 35 screw terminal block to PT 2,5 push-in terminal blocks, in order to form power blocks
- The flexible options for reducing bridging in the CLIPLINE complete system can be found in the "Accessories" section

AGK 4-UT... pick-off terminal blocks

- The fully insulated pick-off terminal block (optional use) permits a voltage pick-off up to a nominal voltage of 1000 V (4 mm²)
- Large area for labeling



Notes:
1) For installation notes on the use of accessories for Ex e applications, see page 710.
2) The reducing bridge table should be followed, see page 476.



16 (25) mm², 101 A, feed-through terminal block



Ex: Ex IECEx
KEMA 04ATEX2048 U / IECEx KEM 06.0027U

Technical data

Dimensions		Width	Length	Height NS 35/7,5	
		12.2	55.5	55	
Max. electrical data		I _{max} [A]	U _{max} [V]	max. Ø [mm ²]	AWG
		101	1000	1.5 - 25	16 - 4
		IEC 60947-7-1			
Rated data		IEC	UL/CUL	CSA	IEC/EN 60079-7
Rated voltage [V]		1000	600	600	690
Nominal current / cross section [A] / [mm ²]		76 / 16	85 / -	85 / -	73.5 / 16 // 89.5 / 25
Rated cross section [mm ²]		16	-	-	16
Cross section range AWG		16 - 4	16-4	16-4	16 - 4
Connection capacity		solid	stranded	Ferrule	
		Without / with plastic sleeve			
1 conductor [mm ²]		1.5 - 25	1.5 - 25	1 - 16	1 - 16
Two conductors (of the same type) [mm ²]		1 - 6	1 - 6	1 - 6	-
Two stranded conductors with a TWIN ferrule [mm ²]		0.75 - 10			
General data		Stripping length [mm]			
		14			
Screw thread		M5			
Tightening torque [Nm]		2.5 - 3			
Insulating material		PA			
Inflammability class according to UL 94		V0			

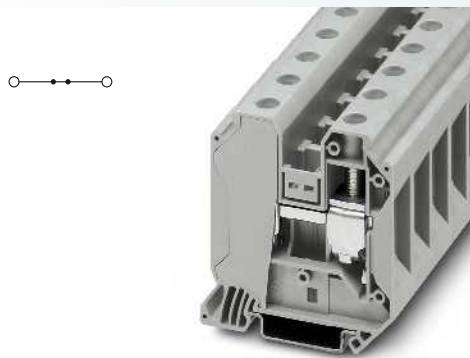
Ordering data

Description	No. of pos.	Color	Type	I _{max}	Order No.	Pcs. / Pkt.
Terminal block, for mounting on NS 35...		gray blue	UT 16 UT 16 BU		3044199 3044209	50 50

Accessories¹⁾

Description	No. of pos.	Color	Type	I _{max}	Order No.	Pcs. / Pkt.
Pick-off terminal block, for snapping into the lateral guide		gray	AGK 4-UT 16		3047125	50
Cover, width 2.2 mm		gray	D-UT 16		3047206	50
Plug-in bridge	2	red	FBS 2-12	76 A	3005950	10
Reducing bridge ²⁾	2	red	RB UT 16-(2,5/4)		3047073	10
Reducing bridge ²⁾	2	red	RB UT 16-ST(2,5/4)		3047099	10
Warning label, for UT series	2	red	WS UT 16		3047374	10
Screwdriver		yellow	SZS 1,0X6,5 VDE		1205079	10

Lateral groove labeling	UC-TM 12, UCT-TM 12 or ZB 12 (see Catalog 5)



35 (50) mm², 150 A, feed-through terminal block



Ex: KEMA 04ATEX2048 U / IECEx KEM 06.0027U

Technical data

Width	Length	Height NS 35/7,5	
16	60.2	65.7	
I_{max} [A]	U_{max} [V]	max. Ø [mm ²]	AWG
150	1000	1.5 - 50	16 - 1/0
IEC 60947-7-1			
IEC	UL/CUL	CSA	IEC/ EN 60079-7
1000	600	600	690
125 / 35	150 / -	150 / -	126 / 35 // 129 / 50
35	-	-	35
16 - 1/0	14-1/0	14-1/0	16 - 1/0
solid	stranded	Ferrule	
		Without / with plastic sleeve	
1.5 - 50	1.5 - 50	1.5 - 35	1.5 - 35
1.5 - 16	1.5 - 10	1.5 - 10	-
		1.5 - 16	

18
M6
3.2 - 3.7
PA
V0

Ordering data

Type	I_{max}	Order No.	Pcs. / Pkt.
UT 35		3044225	50
UT 35 BU		3044238	50

Accessories¹⁾

AGK 4-UT 35		3047138	50
FBS 2-16	101 A	3005963	10
RB UT 35-(2,5/4)		3047277	10
RB 35-16		3032169	10
RB UT 35-ST(2,5/4)		3047280	10
WS UT 35		3047387	10
SZS 1,0X6,5 VDE		1205079	10

UC-TM 16, UCT-TM 16 or ZB 16,3
(see Catalog 5)

UT screw connection terminal blocks

UKH ... high-current terminal blocks

– Bolt connection - bolt connection
See page 464



The compact universal high-current terminal blocks are available for up to 240 mm² and 415 A and ground terminal blocks of the same shape up to 95 mm².

The reliable cable connection is ensured through highly effective measures:

- Three-point centering of conductor in prismatic sleeve base
- Low transitional resistance levels of contact surface through use of striation
- Screws secured through use of spring-loaded elements in terminal block body
- The UKH ... EP insertion profile is provided for a secure strip conductor connection
- The fully-insulated pick-off terminal block (optional use) permits a voltage pick-off up to a nominal voltage of 1000 V (10 mm²)
- Large area for labeling

High-current connector with bolt connection

The UHV ... high-current plug-in connectors also cover the cross section range up to 240 mm² and 415 A. The following version combinations are available:

- Screw connection - screw connection
- Screw connection - bolt connection



Notes:
1) For installation notes on the use of accessories for Ex e applications, see page 710.
2) See page 466.



50 (70) mm², 150 A, feed-through terminal block

Ex:

 KEMA 98ATEX1786U / IECEx KEM 06.0029U

Dimensions		[mm]
Dimensions		[mm]
Max. electrical data		
Rated data		
Rated voltage	[V]	1000
Nominal current / cross section	[A] / [mm ²]	150 / 50
Rated cross section	[mm ²]	50
Cross section range	AWG	6 - 2/0
Connection capacity		
1 conductor	[mm ²]	16 - 70
Two conductors (of the same type)	[mm ²]	10 - 16
Max. cross section with insertion bridge	[mm ²]	10 - 16
General data		
Stripping length	[mm]	24
Screw thread		M6
Tightening torque	[Nm]	6 - 8
Insulating material		PA
Inflammability class according to UL 94		V0

Technical data			
Width	Length	Height NS 35/15	
20	75.5	83.5	
Width	Length	Height NS 32	
20	75.5	81.5	
I _{max} [A]	U _{max} [V]	max. Ø [mm ²]	AWG
150	1000	16 - 70	6 - 2/0
IEC 60947-7-1			
IEC	UL/CUL	CSA	IEC/EN 60079-7
1000	600	600	690
150 / 50	150 / -	150 / -	137
Rated cross section	[mm ²]	50	50
Cross section range	AWG	6-1/0	6 - 2/0
Connection capacity		Ferrule	
solid	stranded	Without / with plastic sleeve	
16 - 70	25 - 70	25 - 50	25 - 50
10 - 16	10 - 16	10 - 16	-

Description	No. of pos.	Color
Terminal block, for mounting on NS 32, NS 35/15 or NS 35/15-2,3		gray
		blue

Ordering data			
Type	I _{max}	Order No.	Pcs. / Pkt.
UKH 50		3009118	10
UKH 50 BU		3009105	10

Pick-off terminal block, for snapping into the lateral guide		gray
Fixed bridge, for cross connections in the terminal center, screw heads with insulating collar, first remove partition center		
	2	silver
	3	silver
Insertion bridge, fully insulated, is laid into terminal sleeve and snapped into the terminal housing		
	2	gray
	3	gray
Insertion profile, levels out the prism-shaped sleeve when using flat-ribbon conductors ²⁾		silver
Aluminum end bracket, for screwing on, for end support for the UKH 50 - UKH 240, can be labeled with ZB 10, for mounting on NS 32...		silver
Aluminum end bracket, for screwing on, for end support of 50 - 300 mm ² terminal blocks, can be labeled with ZB 10, for mounting on NS 35...		silver
Allen wrench, fully insulated, safety tool in accordance with EN 60900, length: 150 mm, handle width: 110 mm		
Screwdriver		
Lateral groove labeling		

Accessories ¹⁾			
Type	I _{max}	Order No.	Pcs. / Pkt.
AGK 10-UKH 50	57 A	3001763	10
FBI 2-20	150 A	0201346	10
FBI 3-20	150 A	0201317	10
UKH 50 EP		3009228	10
E/AL-NS 32		1201659	10
E/AL-NS 35		1201662	10
SZS 1,2X8,0 VDE		1205082	10

UC-TM 10, UCT-TM 10 or ZB 10 (see Catalog 5)