

Spring Cage Feed-Through Terminal Blocks ST

The product family **ST** with the new spring cage system "**mini spring**" is extremely space-saving. Space is saved thanks to a clearly smaller spring system without having to give up such familiar quality features as the large insertion space.

The outstanding feature of the feed-through terminals is their space-saving design, the generous labeling options and a flexible bridging system.

The insertion space of the ST terminal blocks is designed in such a way that flexible conductors with the rated cross section with ferrule can also be wired up without difficulty.

The ground terminal blocks with the same shape as the feed-through terminal blocks make contact via simple snapping on the mounting rail and thus take over the ground conductor function.

The housings are made of unbreakable polyamide 6.6 of the inflammability class V0 acc. to UL 94.



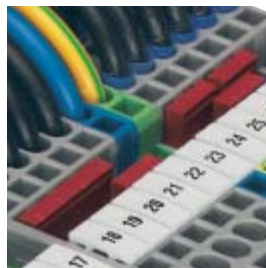
Marking

A clear assignment of the connection lines is a prerequisite for unambiguous and correct installation of terminal strips.

The ST series is ideally suited to these requirements. The generous labeling option using ZB standard Zack ("quick") strip in the terminal

center is always easily accessible and readily recognizable, even when wired.

Moreover, each termination point can also be labeled for special applications.



Plug-in bridging system FBS

The ST terminal block has dual channels for handling all types of bridging possibilities. By means of plug-in bridges the chain bridging can be achieved either with a 2-pos. standard jumper or with multi-position bridges. The multi-position version is especially useful

for fast bridging of multi-position terminal strips. The bridging between non-adjacent terminals can also be handled with this version. The plug-in bridges are

available in the number of position 2, 3, 4, 5 and 10. 20-pos. bridges can also be delivered for the 4, 5 and 6 mm terminal block pitches which can be cut to suit your requirements.

There is also the possibility of a practical test connection in the bridge shaft of the terminal block.



Generous wire entrance

The ST series has large conductor openings, which eliminate the need to move up to a large terminal block when ferrules are required.

Feed-Through Terminal Block

ST 1,5



(IEC) [mm ²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
IEC 60 947-7-1	0.08-1.5	0.08-1.5	28-16	17.5	500
EN 50 019*	0.08-1.5	0.08-1.5	28-16	17.5	420

* EC Prototype certificate no.: KEMA 01ATEX2129U
For information on installation and usage of accessories for EEx e applications, see www.cipline.phoenixcontact.com.

Technical data

Spring cage terminal block,
for mounting on

gray	terminal width 4.2
blue	terminal width 4.2
orange	terminal width 4.2
red	terminal width 4.2
black	terminal width 4.2

(1) **End cover**

gray



(2) **Insulating stop sleeve**, prevents unintentional clamping of the insulation in the case of smaller cross sections
Cross section range: 0.08-0.2 mm²
0.25-0.5 mm²



(3) **Plug-in bridge**, for cross-connections in the terminal center

2-pos.
3-pos.
4-pos.
5-pos.
10-pos.
20-pos.



(4) **Partition plate**, for visual and electrical separation of terminal groups, 2 mm thick



(5) **Test adapter**, for 4 mm Ø test connector PS and 4 mm Ø safety test connectors, making contact in the bridge shaft



(6) **Modular test connector**, for individual assembly of test connector strips, can be labeled with ZBF 4



(7) **Warning cover**, for the operating shafts of the "mini-spring" ST spring cage terminal blocks



(8) **Screwdriver**, for actuating the tension spring



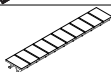
(9) **Zack strip**, flat, for labeling the outer marker grooves

white



(10) **Zack strip**, 10-section, for labeling in the terminal center

white



Dimensions

Width / length / end cover width	[mm]
Height (NS 35/7.5 / NS 35/15)	[mm]

Technical data in accordance with IEC/ DIN VDE

Maximum load current / cross section	[A] / [mm ²]
Rated surge voltage / contamination class	[kV] / –
Surge voltage category / insulation material group	– / –

Connection capacity

Stranded with ferrule with plastic sleeve	[mm ²]
Stranded with ferrule without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]

Stripping length

Internal cylindrical gauge (IEC 60 947-1)

Insulating material

Inflammability class in acc. with UL 94

Approval data (UL and CSA/CUL)

Nom. voltage / nom. current / conduc. sizes	UL: [V] / [A] / AWG
	CSA/CUL: [V] / [A] / AWG

Type	Order No.	Pcs. Pkt.	
ST 1,5	30 31 07 6	50	
ST 1,5 BU	30 31 08 9	50	
ST 1,5 OG	30 37 01 2	50	
ST 1,5 RD	30 37 03 8	50	
ST 1,5 BK	30 37 06 7	50	
D-ST 2,5	30 30 41 7	50	
ISH 1,5/0,2	32 06 13 1	50	
ISH 1,5/0,5	30 31 03 4	50	
FBS 2-4	I _{max.} : 17.5 A	30 30 11 6	50
FBS 3-4	17.5 A	30 30 12 9	50
FBS 4-4	17.5 A	30 30 13 2	50
FBS 5-4	17.5 A	30 30 14 5	50
FBS 10-4	17.5 A	30 30 15 8	10
FBS 20-4	17.5 A	30 30 35 2	10
ATP-ST 4	30 30 72 1	50	
PAI 4	30 30 92 5	10	
PS-4	30 30 97 0	10	
WST 1,5	30 30 95 8	10	
SZF 0 - 0,4 x 2,5	12 04 50 4	10	
ZBF 4:UNPRINTED	08 08 58 7	10	
ZB 4:UNPRINTED	08 05 00 1	10	
4.2 / 48.5 / 2.2			
36.5 / 44			
17.5 / 1.5			
6 / 3			
III / I			
0.25 - 1.5			
0.25 - 1.5			
0.5			
10			
A 1			
PA			
V0			
—			
—			

Ground Terminal Block

ST 1,5-PE

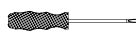
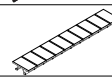


(IEC) [mm ²]	rigid solid	flexible stranded	AWG
IEC 60 947-7-2	0.08-1.5	0.08-1.5	28-16
EN 50 019*	0.08-1.5	0.08-1.5	28-16

* EC Prototype certificate no.: KEMA 01ATEX2129U
For information on installation and usage of accessories for EEx e applications, see www.clipline.phoenixcontact.com.
Observe the current carrying capacity of mounting rails.

ULus PC KEMA

Technical data

Spring cage terminal block, for mounting on 		green-yellow	terminal width 4.2
(1) End cover	gray		
(2) Insulating stop sleeve , prevents unintentional clamping of the insulation in the case of smaller cross sections			
Cross section range:	0.08-0.2 mm ² 0.25-0.5 mm ²	white gray	
(3) Screwdriver , for actuating the tension spring			
(4) Zack strip , flat, for labeling the outer marker grooves	white		
(5) Zack strip , 10-section, for labeling in the terminal center	white		
Dimensions			
Width / length / end cover width			[mm]
Height (NS 35/7.5 / NS 35/15)			[mm]
Technical data in accordance with IEC/ DIN VDE			
Maximum load current / cross section			[A] / [mm ²]
Rated surge voltage / contamination class			[kV] / –
Surge voltage category / insulation material group			– / –
Connection capacity			
Stranded with ferrule with plastic sleeve			[mm ²]
Stranded with ferrule without plastic sleeve			[mm ²]
Stranded with TWIN ferrule with plastic sleeve			[mm ²]
Stripping length			[mm]
Internal cylindrical gauge (IEC 60 947-1)			
Insulating material			
Inflammability class in acc. with UL 94			
Approval data (UL and CSA/CUL)			
Nom. voltage / nom. current / conduc. sizes			UL: [V] / [A] / AWG
			CSA/CUL: [V] / [A] / AWG

Type	Order No.	Pcs. Pkt.
ST 1,5-PE	30 31 51 3	50
D-ST 2,5	30 30 41 7	50
ISH 1,5/0,2 ISH 1,5/0,5	32 06 13 1 30 31 03 4	50 50
SZF 0 - 0,4 x 2,5	12 04 50 4	10
ZBF 4:UNPRINTED	08 08 58 7	10
ZB 4:UNPRINTED	08 05 00 1	10
4.2 / 48.5 / 2.2		
36.5 / 44		
–		
6 / 3		
III / I		
0.25 - 1.5		
0.25 - 1.5		
0.5		
10		
A 1		
PA		
V0		
–		
–		

Feed-Through Terminal Block

ST 2,5



(IEC) [mm ²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
IEC 60 947-7-1	0.08-4	0.08-2.5	28-12	31	800
EN 50 019*	0.08-4	0.08-2.5	28-12	25/21	550

* EC Prototype certificate no.: KEMA 00ATEX2052U
For information on installation and usage of accessories for EEx e applications, see www.cpline.phoenixcontact.com.

Technical data

Spring cage terminal block, for mounting on		gray	terminal width 5.2
		blue	terminal width 5.2
		orange	terminal width 5.2
		red	terminal width 5.2
		black	terminal width 5.2
(1) End cover		gray	
(2) Insulating stop sleeve , prevents unintentional clamping of the insulation in the case of smaller cross sections			
Cross section range:		0.08-0.2 mm ²	white
		0.25-0.5 mm ²	gray
		0.75-1 mm ²	black
(3) Plug-in bridge , for cross-connections in the terminal center		2-pos.	
		3-pos.	
		4-pos.	
		5-pos.	
		10-pos.	
		20-pos.	
(4) Partition plate , for visual and electrical separation of terminal groups, 2 mm thick			
(5) Test adapter , for 4 mm Ø test connector PS and 4 mm Ø safety test connectors, making contact in the bridge shaft			
(6) 2.3 mm Ø test connector¹⁾ , consisting of metal part and red insulating sleeve			
(7) Modular test connector , can be labeled with ZBF 5			
(8) Warning cover , for the operating shafts of the "mini-spring" ST spring cage terminal blocks			
(9) Screwdriver , for actuating the tension spring			
(10) Zack strip , flat, for labeling the outer marker grooves		white	
(11) Zack strip , 10-section, for labeling in the terminal center		white	

Dimensions

Width / length / end cover width	[mm]
Height (NS 35/7.5 / NS 35/15)	[mm]

Technical data in accordance with IEC/ DIN VDE

Maximum load current / cross section	[A] / [mm ²]
Rated surge voltage / contamination class	[kV] / –
Surge voltage category / insulation material group	– / –

Connection capacity

Stranded with ferrule with plastic sleeve	[mm ²]
Stranded with ferrule without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Stripping length	[mm]

Internal cylindrical gauge (IEC 60 947-1)

Insulating material

Inflammability class in acc. with UL 94

Approval data (UL and CSA/CUL)

Nom. voltage / nom. current / conduc. sizes	UL: [V] / [A] / AWG
	CSA/CUL: [V] / [A] / AWG

¹⁾ Further colors on request.

Type	Order No.	Pcs. Pkt.
ST 2,5	30 31 21 2	50
ST 2,5 BU	30 31 22 5	50
ST 2,5 OG	30 37 07 0	50
ST 2,5 RD	30 37 09 6	50
ST 2,5 BK	30 37 12 2	50
D-ST 2,5	30 30 41 7	50
ISH 2,5/0,2	30 02 84 3	50
ISH 2,5/0,5	30 02 85 6	50
ISH 2,5/1	30 02 86 9	50
FBS 2-5	I_{max.}: 24 A	50
FBS 3-5	24 A	50
FBS 4-5	24 A	50
FBS 5-5	24 A	50
FBS 10-5	24 A	10
FBS 20-5	24 A	10
ATP-ST 4	30 30 72 1	50
PAI 4	30 30 92 5	10
MPS-RD	02 01 55 3	10
PS 5	30 30 98 3	10
WST 2,5	30 30 94 1	10
SZF 1 - 0,6 x 3,5	12 04 51 7	10
ZBF 5 :UNPRINTED	08 08 64 2	10
ZB 5:UNPRINTED	10 50 00 4	10

5.2 / 48.5 / 2.2
36.5 / 44
31 / 4
8 / 3
III / I
0.25 - 2.5
0.25 - 2.5
0.5
10
A 3
PA
V0
600 / 20 / 26 - 12
600 / 20 / 26 - 12

Ground Terminal Block

ST 2,5-PE



(IEC) [mm ²]	rigid solid	flexible stranded	AWG
IEC 60 947-7-2	0.08-4	0.08-2.5	28-12
EN 50 019*	0.08-4	0.08-2.5	28-12

* EC Prototype certificate no.: KEMA 00ATEX2052U
For information on installation and usage of accessories for EEx e applications, see www.clipline.phoenixcontact.com.
Observe the current carrying capacity of mounting rails.

ULus PC KEMA

Technical data

Technical data			Type	Order No.	Pcs. Pkt.
Spring cage terminal block, for mounting on 			ST 2,5-PE	30 31 23 8	50
	green-yellow	terminal width 5.2			
(1) End cover	gray		D-ST 2,5	30 30 41 7	50
(2) Insulating stop sleeve , prevents unintentional clamping of the insulation in the case of smaller cross sections Cross section range:			ISH 2,5/0,2 ISH 2,5/0,5 ISH 2,5/1	30 02 84 3 30 02 85 6 30 02 86 9	50 50 50
	0.08-0.2 mm ² 0.25-0.5 mm ² 0.75-1 mm ²	white gray black			
(3) Screwdriver , for actuating the tension spring			SZF 1 - 0,6 x 3,5	12 04 51 7	10
(4) Zack strip , flat, for labeling the outer marker grooves	white		ZBF 5 :UNPRINTED	08 08 64 2	10
(5) Zack strip , 10-section, for labeling in the terminal center	white		ZB 5:UNPRINTED	10 50 00 4	10
Dimensions					
Width / length / end cover width				5.2 / 48.5 / 2.2	
Height (NS 35/7.5 / NS 35/15)				36.5 / 44	
Technical data in accordance with IEC/ DIN VDE					
Maximum load current / cross section				–	
Rated surge voltage / contamination class				8 / 3	
Surge voltage category / insulation material group				III / I	
Connection capacity					
Stranded with ferrule with plastic sleeve				0.25 - 2.5	
Stranded with ferrule without plastic sleeve				0.25 - 2.5	
Stranded with TWIN ferrule with plastic sleeve				0.5	
Stripping length				10	
Internal cylindrical gauge (IEC 60 947-1)				A 3	
Insulating material				PA	
Inflammability class in acc. with UL 94				V0	
Approval data (UL and CSA/CUL)					
Nom. voltage / nom. current / conduc. sizes				– / – / 26 - 12	
				– / – / 26 - 12	

Feed-Through Terminal Block

ST 4



(IEC) [mm ²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
IEC 60 947-7-1	0.08-6	0.08-4	28-10	40	800
EN 50 019*	0.08-6	0.08-4	28-10	34/30	550

* EC Prototype certificate no.: KEMA 00ATEX2129U
For information on installation and usage of accessories for EEx e applications, see www.cipline.phoenixcontact.com.

Technical data

Spring cage terminal block,
for mounting on

gray	terminal width 6.2
blue	terminal width 6.2
orange	terminal width 6.2
red	terminal width 6.2
black	terminal width 6.2

(1) **End cover** gray

(2) **Insulating stop sleeve**, prevents unintentional clamping of the insulation in the case of smaller cross sections
Cross section range: 0.25-0.5 mm² 0.75-1 mm² gray black

(3) **Plug-in bridge**, for cross-connections in the terminal center
2-pos. 3-pos. 4-pos. 5-pos. 10-pos. 20-pos.

(4) **Partition plate**, for visual and electrical separation of terminal groups, 2 mm thick

(5) **Test adapter**, for 4 mm Ø test connector PS and 4 mm Ø safety test connectors, making contact in the bridge shaft

(6) **2.3 mm Ø test connector¹⁾**, consisting of metal part and red insulating sleeve

(7) **Modular test connector**, can be labeled with ZBF 6

(8) **Warning cover**, for the operating shafts of the "mini-spring" ST spring cage terminal blocks

(9) **Screwdriver**, for actuating the tension spring

(10) **Zack strip**, flat, for labeling the outer marker grooves white

(11) **Zack strip**, 10-section, for labeling in the terminal center white

Dimensions

Width / length / end cover width	[mm]
Height (NS 35/7.5 / NS 35/15)	[mm]

Technical data in accordance with IEC/ DIN VDE

Maximum load current / cross section	[A] / [mm ²]
Rated surge voltage / contamination class	[kV] / -
Surge voltage category / insulation material group	- / -

Connection capacity

Stranded with ferrule with plastic sleeve	[mm ²]
Stranded with ferrule without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Stripping length	[mm]

Internal cylindrical gauge (IEC 60 947-1)

Insulating material

Inflammability class in acc. with UL 94

Approval data (UL and CSA/CUL)

Nom. voltage / nom. current / conduc. sizes	UL: [V] / [A] / AWG
	CSA/CUL: [V] / [A] / AWG

¹⁾ Further colors on request.

Type	Order No.	Pcs. Pkt.
ST 4	30 31 36 4	50
ST 4 BU	30 31 37 7	50
ST 4 OG	30 37 13 5	50
ST 4 RD	30 37 15 1	50
ST 4 BK	30 37 18 0	50
D-ST 4	30 30 42 0	50
ISH 4/0,5	30 02 88 5	50
ISH 4/1	30 02 89 8	50
FBS 2-6 $I_{max.}: 32 A$	30 30 33 6	50
FBS 3-6 32 A	30 30 24 2	50
FBS 4-6 32 A	30 30 25 5	50
FBS 5-6 32 A	30 30 34 9	50
FBS 10-6 32 A	30 30 27 1	10
FBS 20-6 32 A	30 30 36 5	10
ATP-ST 4	30 30 72 1	50
PAI 4	30 30 92 5	10
MPS-RD	02 01 55 3	10
PS-6	30 30 99 6	10
WST 4	30 30 95 4	10
SZF 1 - 0,6 x 3,5	12 04 51 7	10
ZBF 6:UNPRINTED	08 08 71 0	10
ZB 6:UNPRINTED	10 51 00 3	10
	6.2 / 56 / 2.2	
	36.5 / 44	
	40 / 6	
	8 / 3	
	III / I	
	0.25 - 4	
	0.25 - 4	
	0.5 - 1	
	10	
	A 4	
	PA	
	V0	
	600 / 30 / 20 - 10	
	600 / 30 / 20 - 10	

Ground Terminal Block

ST 4-PE

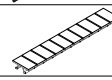


(IEC) [mm ²]	rigid solid	flexible stranded	AWG
IEC 60 947-7-2	0.08-6	0.08-4	28-10
EN 50 019*	0.08-6	0.08-4	28-10

* EC Prototype certificate no.: KEMA 00ATEX2129U
For information on installation and usage of accessories for EEx e applications,
see www.clipline.phoenixcontact.com.
Observe the current carrying capacity of mounting rails.

ULus P KEMA

Technical data

Spring cage terminal block, for mounting on 		green-yellow	terminal width 6.2
(1) End cover	gray		
(2) Insulating stop sleeve , prevents unintentional clamping of the insulation in the case of smaller cross sections			
Cross section range:	0.25-0.5 mm ² 0.75-1 mm ²	 gray black	
(3) Screwdriver , for actuating the tension spring			
			
(4) Zack strip , flat, for labeling the outer marker grooves			
	white		
(5) Zack strip , 10-section, for labeling in the terminal center			
	white		
Dimensions			
Width / length / end cover width		[mm]	
Height (NS 35/7.5 / NS 35/15)		[mm]	
Technical data in accordance with IEC/ DIN VDE			
Maximum load current / cross section		[A] / [mm ²]	
Rated surge voltage / contamination class		[kV] / –	
Surge voltage category / insulation material group		– / –	
Connection capacity			
Stranded with ferrule with plastic sleeve		[mm ²]	
Stranded with ferrule without plastic sleeve		[mm ²]	
Stranded with TWIN ferrule with plastic sleeve		[mm ²]	
Stripping length		[mm]	
Internal cylindrical gauge (IEC 60 947-1)			
Insulating material			
Inflammability class in acc. with UL 94			
Approval data (UL and CSA/CUL)			
Nom. voltage / nom. current / conduc. sizes		UL: [V] / [A] / AWG	
		CSA/CUL: [V] / [A] / AWG	

Type	Order No.	Pcs. Pkt.
ST 4-PE	30 31 38 0	50
D-ST 4	30 30 42 0	50
ISH 4/0,5 ISH 4/1	30 02 88 5 30 02 89 8	50 50
SZF 1 - 0,6 x 3,5	12 04 51 7	10
ZBF 6:UNPRINTED	08 08 71 0	10
ZB 6:UNPRINTED	10 51 00 3	10
6.2 / 56 / 2.2		
36.5 / 44		
–		
8 / 3		
III / I		
0.25 - 4		
0.25 - 4		
0.5 - 1		
10		
A 4		
PA		
V0		
– / – / 20 - 10		
– / – / 20 - 10		

Feed-Through Terminal Block

ST 6



(IEC) [mm ²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
IEC 60 947-7-1	0.2-10	0.2-6	24-8	52	800
EN 50 019*	0.2-10	0.2-6	24-8	45/36	550

* EC Prototype certificate no: KEMA 00ATEX2129U
For information on installation and usage of accessories for EEx e applications, see www.cipline.phoenixcontact.com.

Technical data

Spring cage terminal block, for mounting on		gray blue	terminal width 8.2 terminal width 8.2
(1) End cover		gray	
(2) Plug-in bridge , for cross-connections in the terminal center	2-pos. 3-pos. 4-pos. 5-pos. 10-pos.		
(3) Reducing bridge , for connection of one ST 6 with ST 2,5 or ST 4			
(4) Partition plate , for visual and electrical separation of terminal groups, 2 mm thick			
(5) Test adapter , for 4 mm Ø test connector PS and 4 mm Ø safety test connectors, making contact in the bridge shaft			
(6) 2.3 mm Ø test connector¹⁾ , consisting of metal part and red insulating sleeve			
(7) Modular test connector , can be labeled with ZBF 8			
(8) Warning cover , for the operating shafts of the "mini-spring" ST spring cage terminal blocks			
(9) Screwdriver , for actuating the tension spring			
(10) Zack marker sheet , flat, for labeling the outer marker grooves	white		
(11) Zack strip , 10-section, for labeling in the terminal center	white		

Dimensions

Width / length / end cover width	[mm]
Height (NS 35/7.5 / NS 35/15)	[mm]

Technical data in accordance with IEC/ DIN VDE

Maximum load current / cross section	[A] / [mm ²]
Rated surge voltage / contamination class	[kV] / –
Surge voltage category / insulation material group	– / –

Connection capacity

Stranded with ferrule with plastic sleeve	[mm ²]
Stranded with ferrule without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Stripping length	[mm]

Internal cylindrical gauge (IEC 60 947-1)

Insulating material

Inflammability class in acc. with UL 94

Approval data (UL and CSA/CUL)

Nom. voltage / nom. current / conduc. sizes	UL: [V] / [A] / AWG
	CSA/CUL: [V] / [A] / AWG

¹⁾ Further colors on request.

Type	Order No.	Pcs. Pkt.
ST 6	30 31 48 7	50
ST 6 BU	30 31 49 0	50
D-ST 6	30 30 43 3	50
FBS 2-8	$I_{max.}: 41 \text{ A}$ 30 30 28 4	10
FBS 3-8	41 A 30 30 29 7	10
FBS 4-8	41 A 30 30 30 7	10
FBS 5-8	41 A 30 30 31 0	10
FBS 10-8	41 A 30 30 32 3	10
RB ST 6-(2,5/4)	$I_{max.}: 48 \text{ A}$ 30 30 86 0	10
ATP-ST 6	30 24 48 1	50
PAI 4	30 30 92 5	10
MPS-RD	02 01 55 3	10
PS 8	30 31 00 5	10
WST 6	30 30 96 7	10
SZF 2 - 0,8 x 4,0	12 04 52 0	10
ZBF 8:UNPRINTED	08 08 78 1	10
ZB 8:UNPRINTED	10 52 00 2	10

8.2 / 69.5 / 2.2
43.5 / 51
52 / 10
8 / 3
III / I
0.25 - 6
0.25 - 6
0.5 - 1.5
12
A 5
PA
V0
600 / 50 / 20 - 8
600 / 50 / 20 - 8

Ground Terminal Block

ST 6-PE

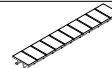


(IEC) [mm ²]	rigid solid	flexible stranded	AWG
IEC 60 947-7-2	0.2-10	0.2-6	24-8
EN 50 019*	0.2-10	0.2-6	24-8

* EC Prototype certificate no.: KEMA 00ATEX2129U
For information on installation and usage of accessories for EEx e applications, see www.clipline.phoenixcontact.com.
Observe the current carrying capacity of mounting rails.

ULus PC KEMA

Technical data

Spring cage terminal block, for mounting on 		green-yellow	terminal width 8.2
(1) End cover	gray		
(2) Screwdriver, for actuating the tension spring			
(3) Zack marker sheet, flat, for labeling the outer marker grooves	white		
(4) Zack strip, 10-section, for labeling in the terminal center	white		
Dimensions			
Width / length / end cover width		[mm]	
Height (NS 35/7.5 / NS 35/15)		[mm]	
Technical data in accordance with IEC/ DIN VDE			
Maximum load current / cross section		[A] / [mm ²]	
Rated surge voltage / contamination class		[kV] / –	
Surge voltage category / insulation material group		– / –	
Connection capacity			
Stranded with ferrule with plastic sleeve		[mm ²]	
Stranded with ferrule without plastic sleeve		[mm ²]	
Stranded with TWIN ferrule with plastic sleeve		[mm ²]	
Stripping length		[mm]	
Internal cylindrical gauge (IEC 60 947-1)			
Insulating material			
Inflammability class in acc. with UL 94			
Approval data (UL and CSA/CUL)			
Nom. voltage / nom. current / conduc. sizes		UL: [V] / [A] / AWG	
		CSA/CUL: [V] / [A] / AWG	

Type	Order No.	Pcs. Pkt.
ST 6-PE	30 31 50 0	50
D-ST 6	30 30 43 3	50
SZF 2 - 0,8 x 4,0	12 04 52 0	10
ZBF 8:UNPRINTED	08 08 78 1	10
ZB 8:UNPRINTED	10 52 00 2	10
8.2 / 69.5 / 2.2		
43.5 / 51		
–		
8 / 3		
III / I		
0.25 - 6		
0.25 - 6		
0.5 - 1.5		
12		
A 5		
PA		
V0		
– / – / 20 - 8		
– / – / 20 - 8		

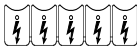
Feed-Through Terminal Block

ST 10



(IEC) [mm ²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
IEC 60 947-7-1	0.2-16	0.2-10	24-6	65	800
EC Prototype certificate from 3rd quarter 2002.					

Technical data

Spring cage terminal block, for mounting on 		gray	terminal width 10.2
		blue	terminal width 10.2
(1) End cover		gray	
(2) Plug-in bridge, for cross-connections in the terminal center		2-pos.	
(3) Reducing bridge, for connection of one ST 10 with ST 2,5 or ST 4			
(4) 2.3 mm Ø test connector¹⁾, consisting of metal part and red insulating sleeve			
(5) Warning cover, for the operating shafts of the "mini-spring" ST spring cage terminal blocks			
(6) Screwdriver, for actuating the tension spring			
(7) Zack marker sheet, flat, for labeling the outer marker grooves		white	
(8) Zack strip, 10-section, for labeling in the terminal center		white	

Dimensions

Width / length / end cover width	[mm]
Height (NS 35/7.5 / NS 35/15)	[mm]

Technical data in accordance with IEC/ DIN VDE

Maximum load current / cross section	[A] / [mm ²]
Rated surge voltage / contamination class	[kV] / –
Surge voltage category / insulation material group	– / –

Connection capacity

Stranded with ferrule with plastic sleeve	[mm ²]
Stranded with ferrule without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]

Stripping length	[mm]
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Internal cylindrical gauge (IEC 60 947-1)

Insulating material

Inflammability class in acc. with UL 94

Approval data (UL and CSA/CUL)

Nom. voltage / nom. current / conduc. sizes	UL: [V] / [A] / AWG
	CSA/CUL: [V] / [A] / AWG

¹⁾ Further colors on request.

Type	Order No.	Pcs. Pkt.
ST 10	30 36 11 0	50
ST 10 BU	30 36 12 3	50
D-ST 10	30 36 64 4	50
FBS 2-10 $I_{max.}: 57 \text{ A}$	30 05 94 7	10
RB ST 10-(2,5/4) $I_{max.}: 55 \text{ A}$	30 30 87 3	10
MPS-RD	02 01 55 3	10
WAZ 10	08 07 99 9	25
SZF 3 - 1,0 x 5,5	12 06 61 2	10
ZBF 8:UNPRINTED	08 08 78 1	10
ZB 10:UNPRINTED	10 53 00 1	10

10 / 71.5 / 2.2

50.5 / 58

65 / 16

8 / 3

III / I

0.25 - 10

0.25 - 10

1.5 - 2.5

18

A 6

PA

V0

–

–

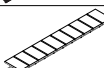
Ground Terminal Block

ST 10-PE



(IEC) [mm ²]	rigid solid	flexible stranded	AWG	I [A]
IEC 60 947-7-2	0.2-16	0.2-10	16-6	65
Observe the current carrying capacity of mounting rails. EC Prototype certificate from 3rd quarter 2002.				

Technical data

Spring cage terminal block, for mounting on 		green-yellow	terminal width 10.2
(1) End cover	gray		
(2) Plug-in bridge, for cross connection in the terminal center	2-pos.		
(3) Screwdriver, for actuating the tension spring			
(4) Zack marker sheet, flat, for labeling the outer marker grooves	white		
(5) Zack strip, 10-section, for labeling in the terminal center	white		
Dimensions			
Width / length / end cover width		[mm]	
Height (NS 35/7.5 / NS 35/15)		[mm]	
Technical data in accordance with IEC/ DIN VDE			
Maximum load current / cross section		[A] / [mm ²]	
Rated surge voltage / contamination class		[kV] / –	
Surge voltage category / insulation material group		– / –	
Connection capacity			
Stranded with ferrule with plastic sleeve		[mm ²]	
Stranded with ferrule without plastic sleeve		[mm ²]	
Stranded with TWIN ferrule with plastic sleeve		[mm ²]	
Stripping length		[mm]	
Internal cylindrical gauge (IEC 60 947-1)			
Insulating material			
Inflammability class in acc. with UL 94			
Approval data (UL and CSA/CUL)			
Nom. voltage / nom. current / conduc. sizes		UL: [V] / [A] / AWG	
		CSA/CUL: [V] / [A] / AWG	

Type	Order No.	Pcs. Pkt.
ST 10-PE	30 36 13 6	50
D-ST 10	30 36 64 4	50
FBS 2-10 $I_{max.}: 57 \text{ A}$	30 05 94 7	10
SZF 3 - 1,0 x 5,5	12 06 61 2	10
ZBF 8:UNPRINTED	08 08 78 1	10
ZB 10:UNPRINTED	10 53 00 1	10
		10 / 71.5 / 2.2
		50.5 / 58
		65 / 16
		8 / 3
		III / I
		0.25 - 10
		0.25 - 10
		1.5 - 2.5
		18
		A 6
		PA
		V0
		–
		–

Feed-Through Terminal Block

ST 16



(IEC) [mm ²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
IEC 60 947-7-1	0.2-25	0.2-16	24-4	90	800
EC Prototype certificate from 3rd quarter 2002.					

Technical data

Spring cage terminal block, for mounting on		gray blue	terminal width 12 terminal width 12
(1) End cover		gray	
(2) Plug-in bridge , for cross-connections in the terminal center		2-pos.	
(3) Reducing bridge , for connection of one ST 16 with ST 2,5 or ST 4			
(4) 2.3 mm Ø test connector¹⁾ , consisting of metal part and red insulating sleeve			
(5) Warning cover , for the operating shafts of the "mini-spring" ST spring cage terminal blocks			
(6) Screwdriver , for actuating the tension spring			
(7) Zack marker sheet , flat, for labeling the outer marker grooves		white	
(8) Zack strip , 10-section, for labeling in the terminal center		white	

Dimensions

Width / length / end cover width	[mm]
Height (NS 35/7.5 / NS 35/15)	[mm]

Technical data in accordance with IEC/ DIN VDE

Maximum load current / cross section	[A] / [mm ²]
Rated surge voltage / contamination class	[kV] / –
Surge voltage category / insulation material group	– / –

Connection capacity

Stranded with ferrule with plastic sleeve	[mm ²]
Stranded with ferrule without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]

Stripping length

	[mm]
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Internal cylindrical gauge (IEC 60 947-1)

Insulating material

Inflammability class in acc. with UL 94	
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Approval data (UL and CSA/CUL)

Nom. voltage / nom. current / conduc. sizes	UL: [V] / [A] / AWG
	CSA/CUL: [V] / [A] / AWG

¹⁾ Further colors on request.

Type		Order No.	Pcs. Pkt.
ST 16		30 36 14 9	50
ST 16 BU		30 36 15 2	50
D-ST 16		30 36 65 7	50
FBS 2-12	I _{max.} : 76 A	30 05 95 0	10
RB ST 16-(2,5/4)	I _{max.} : 63 A	30 30 88 6	10
MPS-RD		02 01 55 3	10
WAZ 12		08 07 98 6	25
SZF 3 - 1,0 x 5,5		12 06 61 2	10
ZBF 8:UNPRINTED		08 08 78 1	10
ZB 10:UNPRINTED		10 53 00 1	10

12 / 80 / 2.2

51 / 58.5

90 / 25

8 / 3

III / I

0.25 - 16

0.25 - 16

1.5 - 4

18

A 7

PA

V0

–

–

Ground Terminal Block

ST 16-PE



(IEC) [mm ²]	rigid solid	flexible stranded	AWG	I [A]
IEC 60 947-7-2	0.2-25	0.2-16	24-4	90

Observe the current carrying capacity of mounting rails.
EC Prototype certificate from 3rd quarter 2002.

Technical data

Spring cage terminal block, for mounting on 		green-yellow	terminal width 12
(1) End cover	gray		
(2) Plug-in bridge, for cross-connections in the terminal center	2-pos.		
(3) Screwdriver, for actuating the tension spring			
(4) Zack marker sheet, flat, for labeling the outer marker grooves	white		
(5) Zack strip, 10-section, for labeling in the terminal center	white		
Dimensions			
Width / length / end cover width		[mm]	
Height (NS 35/7.5 / NS 35/15)		[mm]	
Technical data in accordance with IEC/ DIN VDE			
Maximum load current / cross section		[A] / [mm ²]	
Rated surge voltage / contamination class		[kV] / –	
Surge voltage category / insulation material group		– / –	
Connection capacity			
Stranded with ferrule with plastic sleeve		[mm ²]	
Stranded with ferrule without plastic sleeve		[mm ²]	
Stranded with TWIN ferrule with plastic sleeve		[mm ²]	
Stripping length		[mm]	
Internal cylindrical gauge (IEC 60 947-1)			
Insulating material			
Inflammability class in acc. with UL 94			
Approval data (UL and CSA/CUL)			
Nom. voltage / nom. current / conduc. sizes		UL: [V] / [A] / AWG	
		CSA/CUL: [V] / [A] / AWG	

Type	Order No.	Pcs. Pkt.
ST 16-PE	30 36 16 5	25
D-ST 16	30 36 65 7	50
FBS 2-12 $I_{max.}: 76 \text{ A}$	30 05 95 0	10
SZF 3 - 1,0 x 5,5	12 06 61 2	10
ZBF 8:UNPRINTED	08 08 78 1	10
ZB 10:UNPRINTED	10 53 00 1	10
		12 / 80 / 2.2
		51 / 58.5
		90 / 25
		8 / 3
		III / I
		0.25 - 16
		0.25 - 16
		1.5 - 4
		18
		A 7
		PA
		V0
		–
		–

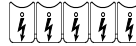
Feed-Through Terminal Block

ST 35



(IEC) [mm ²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
IEC 60 947-7-1	2.5-35	2.5-35	14-2	125	800
EC Prototype certificate from 3rd quarter 2002.					

Technical data

Spring cage terminal block, for mounting on 		gray blue	terminal width 16 terminal width 16
(1) Plug-in bridge , for cross-connections in the terminal center	2-pos.		
(2) Reducing bridge , for connection of one ST 35 with ST 2,5 or ST 4			
(3) 2.3 mm Ø test connector¹⁾ , consisting of metal part and red insulating sleeve			
(4) Warning cover , for the operating shafts of the "mini-spring" ST spring cage terminal blocks			
(5) Screwdriver , for actuating the tension spring			
(6) Zack marker sheet , flat, for labeling the outer marker grooves	white		
(7) Zack strip , 10-section, for labeling in the terminal center	white		
Dimensions			
Width / length / end cover width			[mm]
Height (NS 35/7,5 / NS 35/15)			[mm]
Technical data in accordance with IEC/ DIN VDE			
Maximum load current / cross section			[A] / [mm ²]
Rated surge voltage / contamination class			[kV] / –
Surge voltage category / insulation material group			– / –
Connection capacity			
Stranded with ferrule with plastic sleeve			[mm ²]
Stranded with ferrule without plastic sleeve			[mm ²]
Stranded with TWIN ferrule with plastic sleeve			[mm ²]
Stripping length			[mm]
Internal cylindrical gauge (IEC 60 947-1)			
Insulating material			
Inflammability class in acc. with UL 94			
Approval data (UL and CSA/CUL)			
Nom. voltage / nom. current / conduc. sizes			UL: [V] / [A] / AWG
			CSA/CUL: [V] / [A] / AWG

¹⁾ Further colors on request.

Type	Order No.	Pcs. Pkt.
ST 35	30 36 17 8	10
ST 35 BU	30 36 18 1	10
FBS 2-16 $I_{max.}: 101\text{ A}$	30 05 96 3	10
RB ST 35-(2,5/4) $I_{max.}: 63\text{ A}$	30 30 89 9	10
MPS-RD	02 01 55 3	10
WAZ 16	08 07 97 3	10
SZF 3 - 1,0 x 5,5	12 06 61 2	10
ZBF 8:UNPRINTED	08 08 78 1	10
ZB 10:UNPRINTED	10 53 00 1	10
	16 / 80 / –	
	59 / 66.5	
	125 / 35	
	8 / 3	
	III / I	
	2.5 - 35	
	2.5 - 35	
	–	
	25	
	A 8	
	PA	
	V0	
	–	
	–	

Ground Terminal Block

ST 35-PE



(IEC) [mm ²]	rigid solid	flexible stranded	AWG	I [A]
IEC 60 947-7-2	2.5-35	2.5-35	14-2	125

Observe the current carrying capacity of mounting rails.
EC Prototype certificate from 3rd quarter 2002.

Technical data

Spring cage terminal block, for mounting on 		green-yellow	terminal width 16
(1) Plug-in bridge , for cross-connections in the terminal center	2-pos.		
(2) Screwdriver , for actuating the tension spring			
(3) Zack marker sheet , flat, for labeling the outer marker grooves	white		
(4) Zack strip , 10-section, for labeling in the terminal center	white		

Dimensions

Width / length / end cover width	[mm]
Height (NS 35/7,5 / NS 35/15)	[mm]

Technical data in accordance with IEC/ DIN VDE

Maximum load current / cross section	[A] / [mm ²]
Rated surge voltage / contamination class	[kV] / –
Surge voltage category / insulation material group	– / –

Connection capacity

Stranded with ferrule with plastic sleeve	[mm ²]
Stranded with ferrule without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Stripping length	[mm]

Internal cylindrical gauge (IEC 60 947-1)

Insulating material

Inflammability class in acc. with UL 94

Approval data (UL and CSA/CUL)

Nom. voltage / nom. current / conduc. sizes	UL: [V] / [A] / AWG
	CSA/CUL: [V] / [A] / AWG

Type		Order No.	Pcs. Pkt.
ST 35-PE		30 36 19 4	10
FBS 2-16	I _{max.} : 101 A	30 05 96 3	10
SZF 3 - 1,0 x 5,5		12 06 61 2	10
ZBF 8:UNPRINTED		08 08 78 1	10
ZB 10:UNPRINTED		10 53 00 1	10

16 / 100 / –
59 / 66.5
125 / 35
8 / 3
III / I
2.5 - 35
2.5 - 35
–
25
A 8
PA
V0
–
–