

# ACCESSORIES



Weidmuller offers an extensive range of rail-mounted accessories, including:

### **SIHA fuse holder**

The SIHA fuse holder turns your disconnect terminal into a fuse terminal within seconds. Just remove the disconnect lever, and plug-in the fuse connector – ready!

### **Jumpers**

Jumpers are used to make potential distribution simple. You can cross connect terminal blocks that are abutting, or you can skip one or more terminals.

### **Test plugs**

Test plugs and test adapters are used for final testing of completed wired terminal strips. These products are also helpful for practical tests during operation.

### **Tools**

As one of the leading manufacturers Weidmuller produces professional handtools and machines for cable preparation for electricians and electronic technicians. Our product range includes precision tools for:

- Cutting
- Stripping
- Crimping
- Screwdriving

### **Mounting rails, end brackets**

Mounting rails for use in installing components, as well as end brackets for holding components in position and closing the open end of the last terminal. These apparently trivial items ensure that components are seated firmly and insulated.

### **Terminal markers**

Our ready-to-use markers are pre-printed with the majority of commonly used numbers, letters and symbols. Good legibility, sturdy and lasting print and easy availability are just some of the welcome features. We can also print “just-in-time” from your CAD data or from your lists. Depending on the material used for the markers, we will plot, print or inscribe using high-quality laser print. Custom-printed markers are easy to use, incur no storage costs and make best use of the material.

Weidmuller supplies almost all marking materials as blank markers for the customer to inscribe on-site. To complement these blank markers we offer a complete range of hardware and software for on-site machine-assisted marking that deliver professional and quickly produced results.

# Mounting Rails

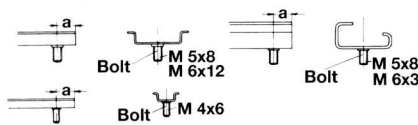
Depending on the various applications, the mounting rails are made of steel, aluminum or copper. All steel versions are electroplated and additionally passivated with a yellow chromate coating. All mounting rails are available in 1 m and 2 m lengths.

All non-slotted mounting rails can be provided with fixing holes (please state dimensions l [length], b [width of slot or hole diameter], and l<sub>2</sub> [length of slot or center of hole]).

The mounting rail can also be used as a protective busbar. Weidmüller PE terminals of the W- and SAK-Series meet the requirements specified in VDE 0611, Part 3. In accordance with VDE 0100, Part 540, at conductor cross-sections of 10 mm<sup>2</sup> and more, protective conductors and neutral conductors can be combined into one line with the symbol PEN. If the mounting rail is used as a PEN busbar, the following criteria must be observed:

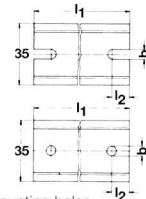
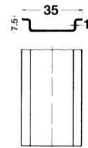
- Only an E-Cu profile may be used
- The short-circuit currents and the rated thermal currents must be observed
- The mounting rails must be insulated for the protective measure "protective insulation."

Additionally, all non-slotted steel rails can be supplied with welded steel bolts (please state dimension a and the desired bolt).



## TS 35x7.5

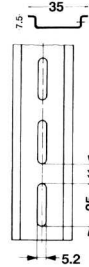
Solid Steel  
Solid Copper



Mounting holes  
Dimension b to specs (dia. 3.5/4.5/5.5/7)  
Dimension l<sub>2</sub> to specs  
Dimension l<sub>1</sub> up to 2 m

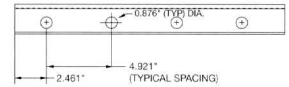
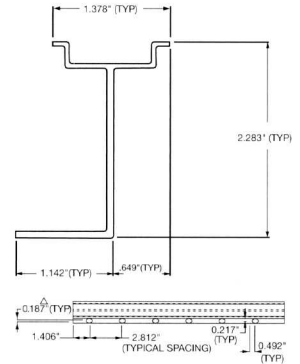
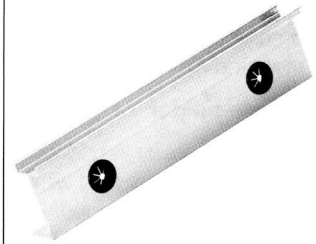
## TS 35x7.5

Slotted steel



## TS 35x7.5/2.25

Aluminum



### Available Options

### Version

- Steel, l = 2 m
- Steel, l = 1 m
- Slotted steel, l = 2 m
- Slotted steel, l = 2 m
- Slotted steel, l = 1 m
- Aluminum

Stainless steel, l = 2 m

Solid Cu

Gray PVC

Rail caps

PVC grommet



### Technical Data

Material	
Standard	DIN EN
Short-circuit resistance = E-Cu conductor	
Max. short-circuit current	
Max. allowable rated current for PEN function	

### Pre-Cut Rail (Steel)

All pre-cuts come with end mounting slots (1/4" x 1/2")

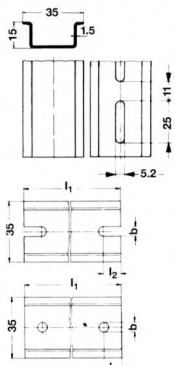
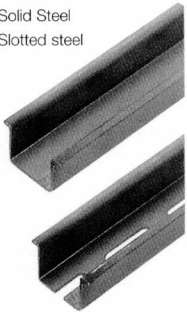
- Pre-cut 2" (50.8 mm)
- Pre-cut 3" (76.2 mm)
- Pre-cut 4" (101.6 mm)
- Pre-cut 5" (127.0 mm)
- Pre-cut 6" (152.4 mm)
- Pre-cut 7" (177.8 mm)
- Pre-cut 8" (203.2 mm)
- Pre-cut 9" (228.6 mm)
- Pre-cut 10" (254.0 mm)
- Pre-cut 11" (279.4 mm)
- Pre-cut 12" (304.8 mm)
- Pre-cut 13" (330.2 mm)
- Pre-cut 14" (355.6 mm)
- Pre-cut 15" (381.0 mm)
- Pre-cut 16" (406.4 mm)
- Pre-cut 17" (431.8 mm)
- Pre-cut 18" (457.2 mm)
- Pre-cut 19" (482.6 mm)
- Pre-cut 20" (508.0 mm)
- Pre-cut 24" (609.6 mm)

Type	Part No.	Type	Part No.	Type	Part No.
TS 35x7.5	38340				
TS 35x7.5	38341				
		TS 35x7.5 (5 mm slot)	51450		
		TS 35x7.5 (6 mm slot)	67620		
		TS 35x7.5 (5 mm slot)	51451		
TS 35x7.5	0330800000			1 m	999716
				2 m	999789
TS 35x7.5	997479				
TS 35x7.5	9960490000				
	67600542		67600542		
					67600765
St	Al	St			
St 2, zinc plated	AL, bare	St 2, zinc plated			
50022	50022	50022			
16 mm <sup>2</sup>	35 mm <sup>2</sup>	16 mm <sup>2</sup>			
1.92 kA	4.2 kA	1.92 kA			
	Part No.		Part No.		
			9139130000		
			9139140000		
			9139150000		
			9139160000		
	9150600000		9139170000		
	9150610000		9176820000		
	9150620000		9139180000		
	9150630000		9139190000		
	9150640000		9139210000		
	9150650000		9139220000		
	9150660000		9139230000		
	9150670000		9139240000		
	9150680000		9176810000		
	9150690000		9139250000		
	9150700000		9139260000		
	9150710000		9139270000		
	9150720000		9139280000		
	9150730000		9139290000		
	9150740000		9139310000		
	9150780000				

\*\*Pre-cut comes with two center mounting holes for additional support (1/4" diameter)

**TS 35x15**

Solid Steel  
Slotted steel



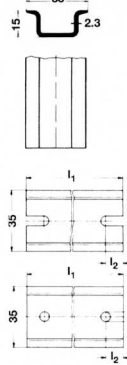
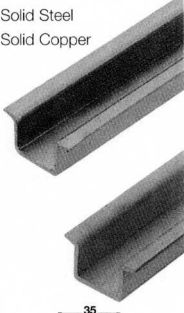
Mounting holes

For TS 35x15, steel  
Dimension b to specs  
(dia. 3.5/4.5/5.5/7)  
Dimension l<sub>2</sub> to specs  
Dimension l<sub>1</sub> up to 2 m

Type	Part No.
TS 35x15	23640
TS 35x15	23641
TS 35x15	23650
TS 35x15	23651

**TS 35x15/2.3**

Solid Steel  
Solid Copper



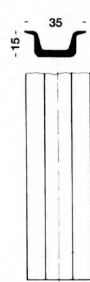
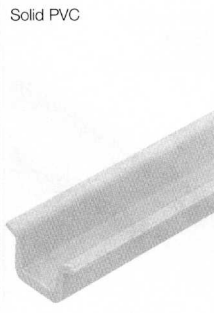
Mounting holes

Dimension b to specs  
(dia. 3.5/4.5/5.5/7)  
Dimension l<sub>2</sub> to specs  
Dimension l<sub>1</sub> up to 2 m

Type	Part No.
TS 35x15	027010000

**TSK 35x15**

Solid PVC

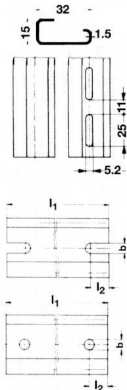


Mounting holes  
on request

Type	Part No.
TSK 35x15	51430

**TS 32**

Solid Steel  
**TS 32**  
Slotted steel



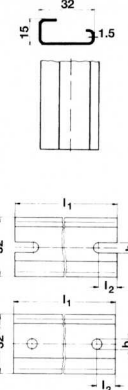
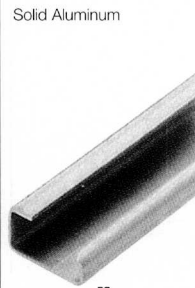
Mounting holes

Dimension b to specs  
(dia. 4.5/5.5/7)  
Dimension l<sub>2</sub> to specs,  
max.15  
Dimension l<sub>1</sub> up to 2 m

Type	Part No.
TS 32	12280
TS 32	12281
TS 32 (5 mm slot)	51440
TS 32 (6 mm slot)	67610
TS 32	51441

**TS 32**

Solid Aluminum



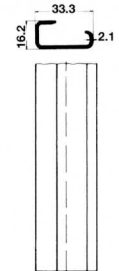
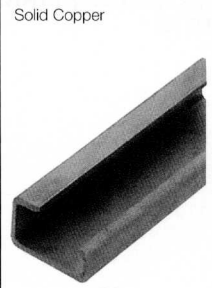
Mounting holes

Dimension b to specs  
(dia. 4.5/5.5/7)  
Dimension l<sub>2</sub> to specs,  
max.15  
Dimension l<sub>1</sub> up to 2 m

Type	Part No.
TS 32	16930

**TS 32**

Solid Copper



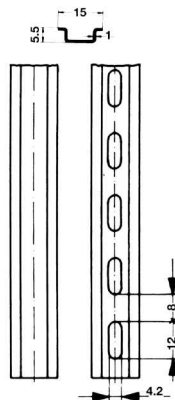
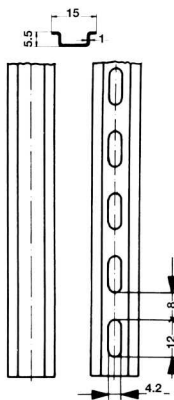
Mounting holes  
on request

Type	Part No.
TS 32	036430000

Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.
67600543				Left	67600540	Left	67600540
				Right	67600541	Right	67600541
<b>St</b>	<b>St</b>	<b>Cu</b>	<b>PVC</b>	<b>St</b>	<b>Al</b>	<b>Cu</b>	
St 2, zinc plated	St 2, zinc plated	Cu, bare		St 2, zinc plated	Al, bare	Cu, bare	
	50022	50022		50035	50035		
25 mm <sup>2</sup>	50 mm <sup>2</sup>	150 mm <sup>2</sup>		35 mm <sup>2</sup>	70 mm <sup>2</sup>	120 mm <sup>2</sup>	
3.0 kA	6.0 kA	18.0 kA		4.2 kA	8.4 kA	14.4 kA	
		335 A			207 A	292 A	

# Mounting Rails

## TS 15



Mounting holes  
on request  
(solid only)

Mounting holes  
on request  
(solid only)

**Available Options**

- Version**
- Steel, l = 2 m
  - Steel, l = 1 m
  - Slotted steel, l = 2 m
  - Slotted steel, l = 2 m
  - Slotted steel, l = 1 m
  - Aluminum
  - Slotted aluminum
  - Cu
  - Gray PVC
  - Rail caps

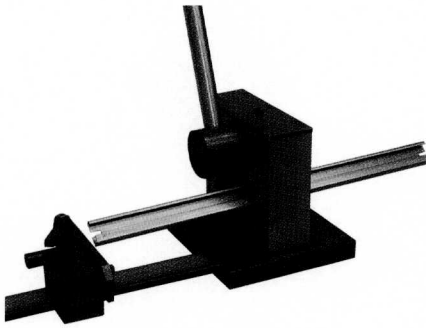
Type	Part No.	Type	Part No.
TS 15	51420		
TS 15	51421		
TS 15	11750		
TS 15	11751		
		TS 15	0134700000
		TS 15	0217900000

**Technical Data**

Material	
Standard	DIN EN
Short-circuit resistance = E-Cu conductor	
Max. short-circuit current	
Max. allowable rated current for PEN function	

St	Slotted	Al
St 2, zinc plated St 2, zinc plated	Al, bare	
50045	50045	50045
10 mm <sup>2</sup>	6 mm <sup>2</sup>	16 mm <sup>2</sup>
1.2 kA		1.92 kA
		82 A

## DIN-Rail Cutter



The new DIN-rail cutter is Weidmüller's recent addition to an already extensive range of accessory tools. The TSL-3 is made of durable steel components to produce the highest quality cuts with a minimum amount of effort. The TSL-3 will cut three types of DIN-rail: TS 35 x 7.5, TS 35 x 15, and TS 32.

In addition, the cutter will also punch 6.3 mm diameter holes and 6.3 x 14 mm slots. For applications that require custom-cut DIN-rail, the TSL 3 is the tool of choice. With its unique shear cutting mechanism a consistent smooth cut is guaranteed.

### Technical data

Rail Types	TS 35 x 7.5
	TS 35 x 15*
	TS 32 x 15
Punches	Hole (6.3 mm diameter)
	Slot (6.3 x 14 mm)

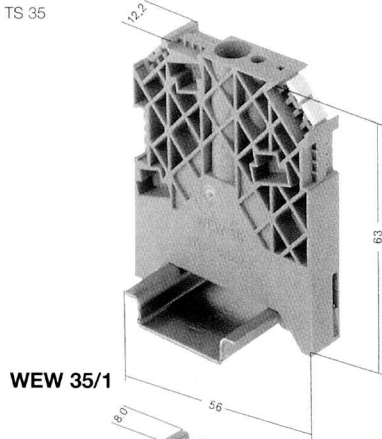
\*Will not cut the 2.3 mm thick variant

### Ordering data

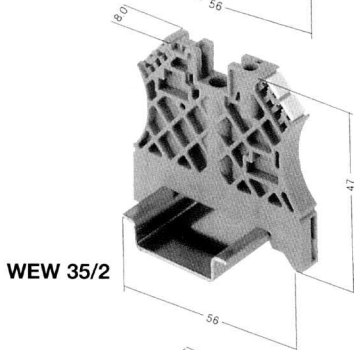
Type	Part No.
TSL-3 Rail Cutter	930058

## End Brackets

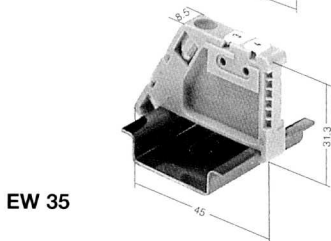
for TS 35



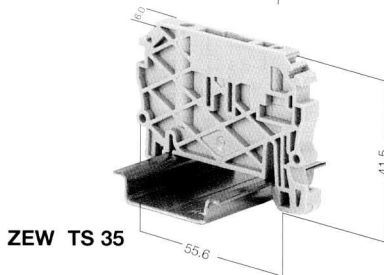
**WEW 35/1**



**WEW 35/2**



**EW 35**



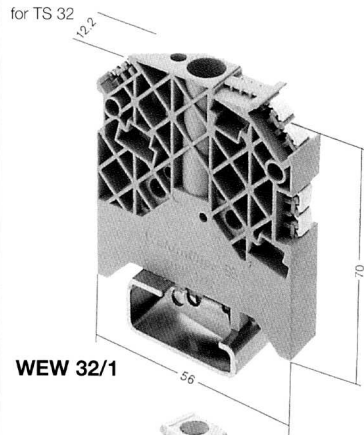
**ZEW TS 35**

The end brackets are fitted to both ends of a terminal strip, preventing undesired displacement and ensuring absolutely secure terminal positioning. End brackets can also accept marking tags and thus serve as group markings. End brackets WEW 35/1 and WEW 35/2 can also be used as busbar support blocks.

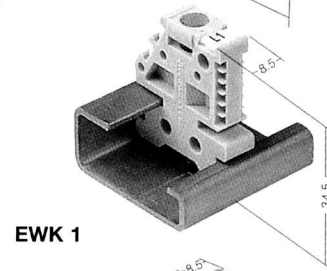
Type EK and WPE ground terminals can also be used as end brackets.

Type	Part No.
WEW 35/1	1059000000
WEW 35/2	1061200000
EW 35	0383560000
ZEW 35	9540000000

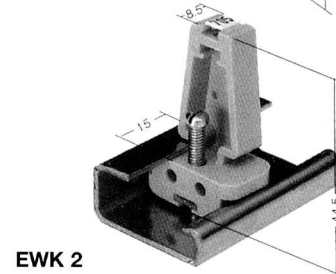
for TS 32



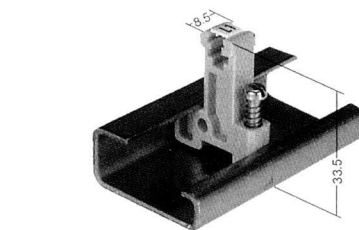
**WEW 32/1**



**EWK 1**



**EWK 2**



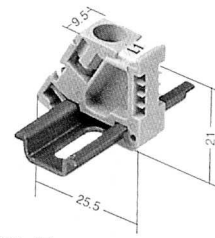
**EWK for Slotted Rail**

The end brackets are fitted to both ends of a terminal strip, preventing undesired displacement and ensuring absolutely secure terminal positioning. End brackets can also accept marking tags and thus serve as group markings.

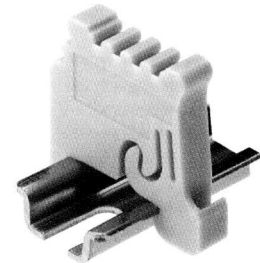
Type EK ground terminals can also be used as end brackets.

Type	Part No.
WEW 32/1	1067600000
EWK 1	0206160000
EWK 2	0199360000
EWK for slotted TS 32	0495160000
SST 3 Locking pin, steel	0152700000*
SST 3 Ms Locking pin, brass	0169400000*

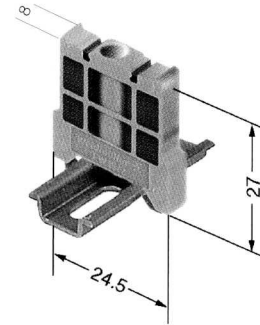
for TS 15



**EW 15**



**ZEW 15**



**EW 15/2**

Dimensions

Width/Length/Height mm(in) 9/27/27 (.35"/1.06"/1.06")

The end brackets are fitted to both ends of a terminal strip, preventing undesired displacement and ensuring absolutely secure terminal positioning. End brackets can also accept marking tags and thus serve as group markings.

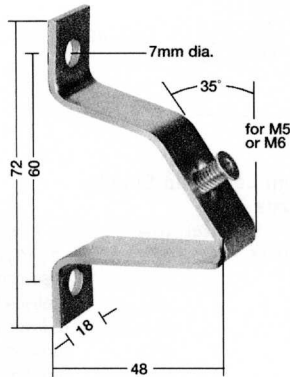
Type AKE ground terminals can also be used as end brackets.

Type	Part No.
EW 15	0382860000
ZEW 15	7920340000
EW 15/2	1071900000
SST 1.3 Locking pin, steel	0306600000**

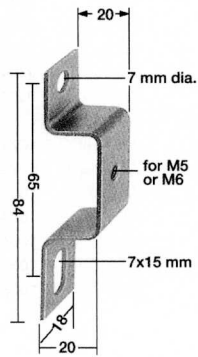
## Mounting Brackets

For TS 32 and TS 35

### TSTW



### TST



Rail can be mounted directly to a panel, or fastened to mounting brackets for easier access or insulation from the panel. TST brackets are parallel or angled relative to the panel. Please note that the correct screw/mounting bracket must be used with the appropriate rail. For example, a TST-M6 can only mount onto a TS 35 or TS 32 DIN-rail with 6 mm slots.

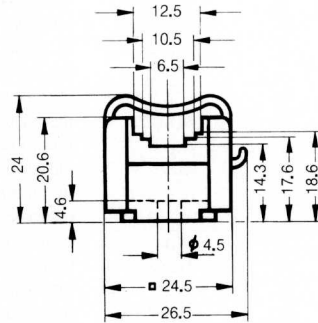
**Screws:**  
 M5: 5 mm x 8 mm long  
 M6: 6 mm x 8 mm long

Type	Part No.	Screw Part No.*
TST-M5 Metal, parallel mounting to panel for M5 screw	1286600000	0295900000
TST-M6 Metal, parallel mounting to panel for M6 screw	0101700000	0642600000
TSTW-M5 Metal, angled mounting to panel for M5 screw	0178100000	0295900000
TSTW-M6 Metal, angled mounting to panel for M6 screw	0164000000	0642600000

## Support Blocks

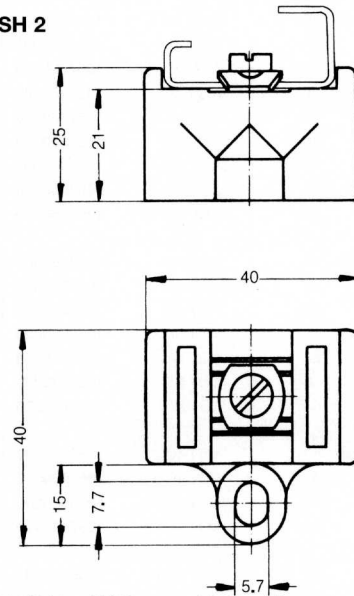
for TS 15, TS 32, TS 35

### SH 1



all dimensions in mm

### SH 2

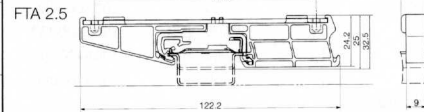


The SH 1 and SH 2 support blocks enable construction of insulated mounting rails.

Type	Part No.
SH 1 for TS 15 in PA (thermoplastic) base with clip	0299860000
SH 2 for TS 32/35 in KrG (thermoset plastic)	0494920000

### Mounting bases for printed circuit boards

for TS 35

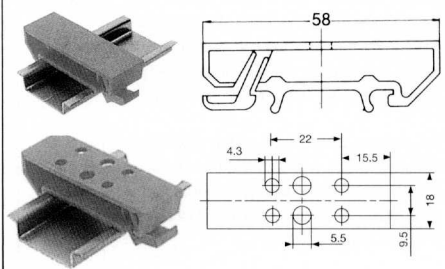


Type	Part No.
FTA Mounting Bracket	1674800000

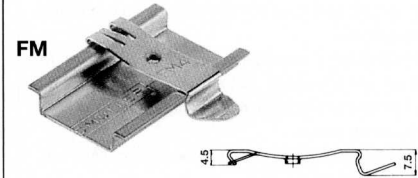
## Mounting Bases

for TS 32 and TS 35

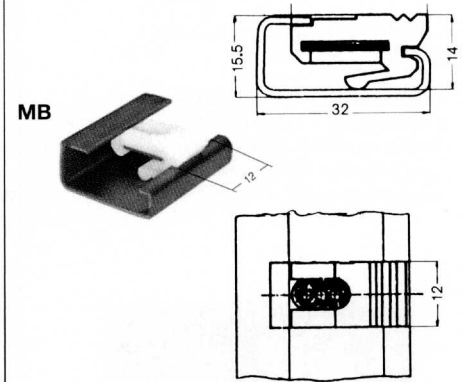
### MOFU



### FM



### MB



Mounting bases are used to fix components onto mounting rails. Weidmüller offers a polyamide mounting base and a steel snap-on base for the TS 35 mounting rail. The FM 4 type snap-on base fits all TS 35 mounting rails. The PA mounting base fits the TS 35x7.5 and TS 35x15 slotted rails.

The sliding nut for TS 32 mounting rails has two tapped holes for M 3, M 4, M 5 and M 6 screws. It is used to fix components which cannot be directly mounted on the TS 32 and, in particular, to accept the smaller TS 15 rail. In this way, for example, small terminals can first be mounted on the TS 15 and this rail can then be mounted on the TS 32 with the aid of the sliding nut together with the terminals.

Type	Part No.	Type	Part No.
FM 4 (M 4) for TS 35	0687900000	MOFU PA mtg. base, orange, with holes For TS 35x7.5 and 15x15 slot.	0646260000
FM 5 (M 5) for TS 35	0636800000	MB 3/5 (cream) With M 3 and M 5 threads, for TS 32	0503500000
FM 6 (M 6) for TS 35	0636900000	MB 6/4 (gray) With M 6 and M 4 threads, for TS 32	0334900000
MOFU PA mtg. base, orange, with holes For TS 35x7.5 and 15x15 slot.	0646260000	MB 5/3 (black) With M 5 and M 3 threads, for TS 32	0553400000

\*Screws must be ordered separately, one screw per corresponding mounting bracket.

# Jumpers

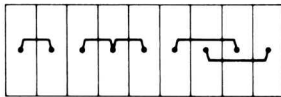
## WQV

Jumpers are used to distribute current to other terminal blocks within the rail assembly. WQV jumpers are touch-safe, fully insulated and inserted into the jumper recess in the middle of the terminal block. They are securely fastened to the block current bar.

To select the proper WQV, you must know the type of terminals being connected and the number of poles. The WQV model number can then be used for the selection (e.g. WQV 2.5/2 is for use in a WDU 2.5 terminal and has 2 poles). Features include:

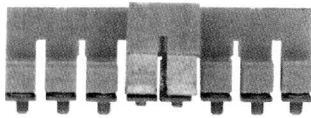
- For use with both feed through (WDU) and ground (WPE) terminal blocks
- Pre-assembled jumpers between 2-15 poles with captive screws and screwdriver guides
- Full terminal block current rating can be distributed through the jumper
- Individual jumper legs can be removed (using WAW tool) to skip terminals
- Jumpers can be installed in parallel to allow dual current distribution paths

### Arrangement of 2 potentials

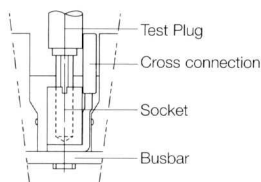


Simple Parallel

To build a jumper assembly longer than 10 poles, two jumpers may be connected using a 2-pole WQV jumper. Remove the screwdriver guides and fixing screws from the ends of the jumpers to be connected, then attach the 2-pole WQV in parallel.



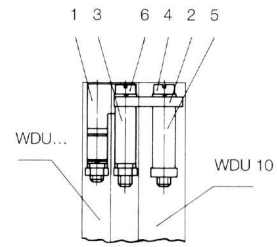
To install a test socket with the WQV jumper, remove the screwdriver guide and screw and insert the screw end of the test socket through the jumper assembly and into the current bar. The socket attaches the WQV and accepts the PS test plug.



For terminal type	Continuous current		
<b>WDU 1.5/2.5</b>			
<b>WDK 2.5</b>	<b>A</b>	<b>Type</b>	<b>Part No.</b>
Width 5 mm	35	WQV 2.5/2	1053660000
	35	WQV 2.5/3	1053760000
	35	WQV 2.5/4	1053860000
	35	WQV 2.5/5	1053960000
	35	WQV 2.5/6	1054060000
	35	WQV 2.5/7	1054160000
	35	WQV 2.5/8	1054260000
	35	WQV 2.5/9	1054360000
	35	WQV 2.5/10	1054460000
	35	WQV 2.5/11	1059260000
	35	WQV 2.5/12	1059360000
	35	WQV 2.5/13	1059460000
	35	WQV 2.5/14	1059560000
	35	WQV 2.5/15	1059660000
	35	WQV 2.5/20	1577570000
	35	WQV 2.5/30	1067500000
	35	WQV 2.5/32	1577600000
<b>WDU 4</b>			
Width 6 mm	46	WQV 4/2	1051960000
	46	WQV 4/3	1054560000
	46	WQV 4/4	1054660000
	46	WQV 4/5	1057860000
	46	WQV 4/6	1057160000
	46	WQV 4/7	1057260000
	46	WQV 4/8	1057960000
	46	WQV 4/9	1058060000
	46	WQV 4/10	1052060000
<b>WDU 6</b>			
Width 8 mm	63	WQV 6/2	1052360000
	63	WQV 6/3	1054760000
	63	WQV 6/4	1054860000
	63	WQV 6/5	1062660000
	63	WQV 6/6	106270000
	63	WQV 6/7	1062680000
	63	WQV 6/10	1052260000
<b>WDU 10</b>			
Width 10 mm	85	WQV 10/2	1052560000
	63	WQV 10/3	1054960000
	63	WQV 10/4	1055060000
	63	WQV 10/10	1052460000
<b>WDU 16N</b>			
	63	WQV 16N/2	1636560000
	63	WQV 16N/3	1636570000
	63	WQV 16N/4	1636580000
<b>WDU 16</b>			
Width 12 mm	85	WQV 16/2	1053260000
	85	WQV 16/2 Blue	1053280000
	63	WQV 16/3	1055160000
	63	WQV 16/4	1055260000
	63	WQV 16/10	1053360000
<b>WDU 35</b>			
Width 16 mm	138	WQV 35/2	1053060000
	112	WQV 35/3	1055360000
	112	WQV 35/4	1055460000
	112	WQV 35/10	1053160000
<b>WDU 70N</b>			
	175	WQV 70N/2	9512240000
	175	WQV 70N/3	9512250000
<b>WDU 70</b>			
Width 27 mm	207	WQV 70/2	1063500000
	207	WQV 70/3	1063600000
<b>WDU 120</b>			
Width 32 mm	292	WQV 120/2	1063300000
	292	WQV 120/3	1063400000

### Notching Tools

Type	Jumper Type	Part No.
WAW 1	WQV 2.5 to WQV 35	9004500000
Type	Terminal Type	Part No.
WAW 2	WSI 6 and WTR 2.5	9004510000



### Jumper From Larger To Smaller Terminal Sizes

	Item	Type	Part No.
<b>WDU 10 to WDU 2.5</b>	1	WQV 2.5	2...10 pole
	2	QL 2	1056600000
	3	VH 12.2	1056500000
	4	BS M2.5 x 20	0343100000
	5	VH 13	0304000000
	6	BS M3 x 20	0303000000
<b>WDU 10 to WDU 4</b>	1	WQV 4	2...10 pole
	2	VH 12	0249000000
	3	QL 2	0194300000
	4	BS M3 x 20	0303000000
	5	VH 13	0304000000
	6	BS M3 x 20	0303000000
<b>WDU 16N to WDU 2.5</b>		WQV 16N/2.5	1073100000
<b>WDU 16N to WDU 4,6</b>		WQV 16N/4	1072500000
<b>WDU 16 to WDU 2.5</b>		WQV 16/2.5	1063900000
<b>WDU 16 to WDU 4</b>		WQV 16/4	1064000000
<b>WDU 35 to WDU 2.5</b>		WQV 35/2.5	1064100000
<b>WDU 35 to WDU 4</b>		WQV 35/4	1064200000
<b>WDU 35 to WDU 10</b>		WQV 35/10	1068000000

# Jumpers

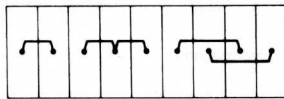
## ZQV, ZQS, ZQB, ZQW

Jumpers are used to distribute current to other terminal blocks within the rail assembly. ZQV, ZQS, and WQV jumpers are touch-safe; fully insulated and inserted into the jumper recess in the middle of the terminal block. They are securely fastened to the block current bar.

To select the proper jumper, you must know the type of terminals being connected and the number of poles. The model number can then be used for the selection (e.g. ZQV 2.5/2 is for use in a ZDU 2.5 terminal and has 2 poles). Features include:

- Z-Series jumpers push into the blocks
- Pre-assembled jumpers between 2-10 poles with captive screws and screwdriver guides (WDU Blocks)
- Full terminal block current rating can be distributed through the jumper
- Individual jumper legs can be removed to skip terminals
- Jumpers can be installed in parallel to allow dual current distribution paths (ZDU 2.5 and WDU 2.5)

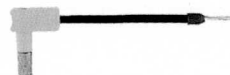
### Arrangement of 2 potentials



Simple

Parallel

### ZQW



ZQW jumpers interconnect tension clamp blocks with screw clamp blocks. The ZQW connects to the current bar of the screw clamp block. The other end of the ZQW is inserted into one of the tension clamps. Continuous current rating of the ZQW jumper is 27 A.

	Type	Part No.
To tension clamp from:		
WDU 6/WDU 10	ZQW1	1611430000
WDU 16/WDU 35	ZQW2	1611440000



Used to jumper two blocks together when DIN-rail jumpering is not available. Maximum current: 20 A

	Type	Part No.
For 5 mm wide blocks	ZQB 2.5	1677120000

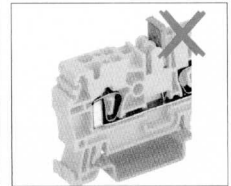
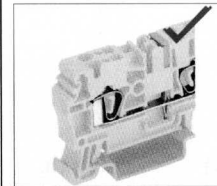
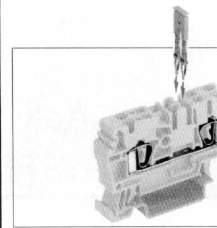
For terminal type	Continuous current			
<b>ZDU 1.5, ZDU 2.5,</b>				
<b>ZDU 2.5/3AN,</b>				
<b>ZDU 2.5/4AN,</b>				
<b>ZTR 2.5, ZTR 2.5/3AN,</b>				
<b>ZTR 2.5/D, ZTR 2.5/3AN/D</b>				
	<b>Amp</b>	<b>Type</b>	<b>Part No.</b>	
Width 5 mm	25	ZQV 2.5/2	1608860000	
	25	ZQV 2.5/3	1608870000	
	25	ZQV 2.5/4	1608880000	
	25	ZQV 2.5/5	1608890000	
	25	ZQV 2.5/6	1608900000	
	25	ZQV 2.5/7	1608910000	
	25	ZQV 2.5/8	1608920000	
	25	ZQV 2.5/9	1608930000	
	25	ZQV 2.5/10	1608940000	
	25	ZQV 2.5/50*	1697540000	
<b>ZDU 4</b>				
Width 6 mm	33	ZQV 4/2	1608950000	
	33	ZQV 4/3	1608960000	
	33	ZQV 4/4	1608970000	
	33	ZQV 4/5	1608980000	
	33	ZQV 4/6	1608990000	
	33	ZQV 4/7	1609000000	
	33	ZQV 4/8	1609010000	
	33	ZQV 4/9	1609020000	
	33	ZQV 4/10	1609030000	
<b>ZDU 10, ZDU 16, ZDU 35</b>				
Width 12 mm	57	ZQV 35/10	7920100000	
	57	ZQV 16/10	7920080000	
Width 16 mm	76	ZQV 35/16	7920120000	
<b>ZSI 2.5/2</b>				
Width 12 mm	16	ZQS 2.5/2	1633200000	
	16	ZQS 2.5/3	1633210000	
	16	ZQS 2.5/4	1633220000	
	16	ZQS 2.5/5	1633230000	
<b>ZDU 6, ZSI 2.5</b>				
Width 8 mm	45	ZQV 6/2	1627850000	
	45	ZQV 6/3	1627860000	
	45	ZQV 6/4	1627870000	
<b>WDU 2.5*</b>				
Width 5 mm	25	ZQV 2.5/2	1693800000	
	25	ZQV 2.5/3	1693810000	
	25	ZQV 2.5/4	1693820000	
	25	ZQV 2.5/5	1693830000	
	25	ZQV 2.5/6	1693840000	
	25	ZQV 2.5/7	1693850000	
	25	ZQV 2.5/8	1693860000	
	25	ZQV 2.5/9	1693870000	
	25	ZQV 2.5/10	1693880000	
	25	ZQV 2.5/50*	1693890000	
<b>WDU 4, WDK 4N, WTR 4</b>				
Width 6 mm	33	ZQV 4N/2	1758250000	
	33	ZQV 4N/3	1762630000	
	33	ZQV 4N/4	1762620000	
	33	ZQV 4N/10	1758260000	
	33	ZQV 4N/41	1758270000	

\*color option



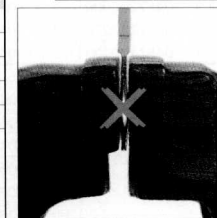
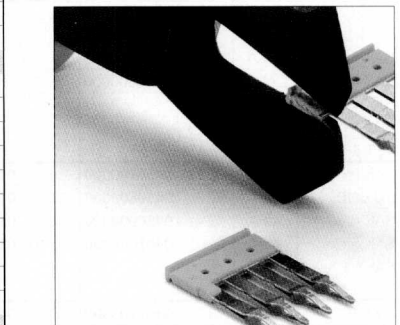
	Yellow	Red	Blue	Black
ZQV 2.5N/2	1693800000	1717900000	1717990000	1718080000
ZQV 2.5N/3	1693810000	1717910000	1718000000	1718090000
ZQV 2.5N/4	1693820000	1717920000	1718010000	1718100000
ZQV 2.5N/5	1693830000	1717930000	1718020000	1718110000
ZQV 2.5N/6	1693840000	1717940000	1718030000	1718120000
ZQV 2.5N/7	1693850000	1717950000	1718040000	1718130000
ZQV 2.5N/8	1693860000	1717960000	1718050000	1718140000
ZQV 2.5N/9	1693870000	1717970000	1718060000	1718150000
ZQV 2.5N/10	1693880000	1717980000	1718070000	1718160000
ZQV 2.5N/50 (endless)	1693890000	1718170000	1718180000	1718190000

Colored jumper ZQV 2.5N



Pluggable jumpers can be inserted and replaced quickly and easily.

The length of the jumpers can be shortened using a suitable cutting tool, e.g. KT ZQV (Part No. 9002170000). However, at least three contact elements must remain.



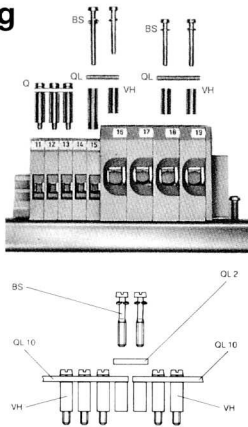
**Caution:**  
Do not deform the contact elements!

If the cross-connections are shortened by the user, partitions and/or end plates (ZAP/TW...) must be used to maintain the rated voltage of 250 V, if terminals of type ZDU 2.5/... are used.

\*Jumpering over 32 blocks may not be possible due to cumulative tolerances of blocks. 50 pole versions do not have insulated ends.

# Jumpering System

## Q/QL



### Q Preassembled Jumpers

With preassembled jumpers, the jumpering link, jumpering sleeve, and fixing screw are already captively mounted with the corresponding number of poles. During assembly, the preassembled jumpers only require insertion into the individual terminal rows. These jumpering units are available in 2, 3, 4 and 10-pole versions.

### QL Jumpering Links

Jumpering links are used to cross-connect several terminal blocks of the same potential. The jumpering links are made of copper or brass. The surface is tin-plated. These jumpering links are available in 2, 3, 4, and 10-pole lengths, matched to the respective terminal width. The jumpering link is electrically connected to the terminal block current bar via a connection sleeve.

### VH Connection Sleeves

The length of the connection sleeves is matched to the respective terminal. They are made of copper or brass. The surface is SnPb. A connection sleeve must be used for each terminal to be jumpered.

### BS Fixing Screws

A steel fixing screw is used to connect the jumpering link to the connection sleeve on the terminal block current bar. The purpose of the steel screw is to mechanically connect the jumpering unit firmly to the current bar. Two types of screw shape are used. The A-shape has a full-length thread and the B-shape has a threadless shank on its upper half. The B-shape also has a rolled lock washer.

### Jumpering over more than 10 terminal blocks

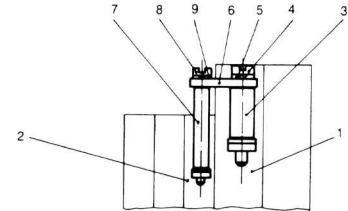
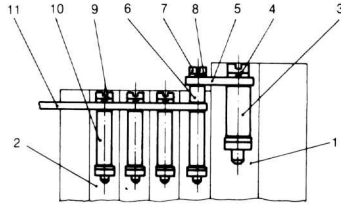
For SAKD 2.5 N, SAK 2.5, SAK 4, SAK 6 N and AKZ 4, it is possible to construct a cross-connection of more than 10 poles, e.g. 20-pole: 2 x Q 10 and 1 x QL 2. The first and last fixing screws are removed from the connection sleeve of the Q 10. The QL 2 is inserted between and both fixing screws are crossed into the connection sleeve again. 20 poles can be cross-connected using this combination.

Type	Rated current of the terminal blocks (VDE) A	Q Preassembled Jumpers		QL Jumpering links		Dimensions		Cross-connection continuous current	VH Connection sleeves without threads	Dimensions			Shape A BS Fixing screws		Shape B SS Screw retainer					
		Type No. poles	Part No.	Type No. poles	Part No.	b	t			L	d1	Type Length	Part No.	L	d2	d1	Part No.	Shape	Size M	Screw retainer
SAKD 2.5 N	26 A	Q 2	0367800000	QL 2	0215800000	6	1.5	5.1	2.8	2.2	20 A	VH 8.5	0266900000	8.5	4	2.8	0367700000	B	2.5x14	Incl.
SAKD 2.5/35	26 A	Q 3	0367900000	QL 3	0215900000						20 A									
WTR 2.5 (QL)	26 A	Q 4	0368000000	QL 4	0216000000						20 A						1062700000		2.5x14	Incl.
		Q 10	0368100000	QL 10	0338000000						20 A									
SAK 2.5	26 A	Q 2	0337000000	QL 2	0155900000	6	0.6	6	3.4	2.4	27 A	VH 8	0266700000	8	4.9	3.5	0359000000	B	3x15	Incl.
SAK 2.5/35	26 A	Q 3	0337100000	QL 3	0156000000						27 A									
SAK 2.5 L LL	18 A	Q 4	0337200000	QL 4	0156100000						27 A									
SAK 2.5 T	10 A	Q 10	0368700000	QL 10	0338100000						27 A									
SAKT 4	26 A																			
SAK 2.5 ex	26 A																			
KB 2.5/10	26 A																			
AST 3/35	16 A																			
AST 4/35	16 A																			
SAK 4 & 4 T	34 A	Q 2	0336700000									VH 13.5	0248500000	13.5	5	3.5	0303000000	B	3x20	Incl.
KB 4/10	34 A	Q 3	0336800000																	
SAK 4/35	34 A	Q 4	0336900000																	
SAK 4 ex	34 A	Q 10	0368800000																	
SAKH 4 ex	34 A																			
AST 1 - 5	16 A																			
AST 5 T																				
SAK 6 N	44 A	Q 2	0456700000	QL 2	0194300000	6	1	8	3.4	3	47 A	VH 12	0249000000	12	5	3.5	0303000000	B	3x20	Incl.
KB 6/10	44 A	Q 3	0456800000	QL 3	0194400000						47 A									
SAK 6/35	44 A	Q 4	0456900000	QL 4	0194500000						47 A									
SAK 6 ex	44 A	Q 10	0457000000	QL 10	0338300000						36 A									
SAKT 1 & 2	27 A																			
WSI 6 (QL)	35 A																1052100000		3x5	
SAK 10	61 A	Q 2	0457100000	QL 2	0470300000	6	2	10	3.4	3.5	47 A	VH 12	0249000000	12	5	3.5	0303000000	B	3x20	Incl.
SAK 10/35	61 A	Q 3	0457200000	QL 3	0470400000						47 A									
KB 10/15	61 A	Q 4	0457300000	QL 4	0470500000						47 A									
		Q 10	0457400000	QL 10	0470600000						36 A									
SAK 16	82 A	Q 2	0457500000	QL 2	0470700000	6	2	12	3.4	4	47 A	VH 12	0249000000	12	5	3.2	0303000000	B	3x20	Incl.
SAK 16/35	63 A	Q 3	0457600000	QL 3	0470800000						47 A									
	82 A	Q 4	0457700000	QL 4	0470900000						47 A									
		Q 10	0457800000	QL 10	0471000000						36 A									
SAK 35 N	135 A			QL 2	0564900000	8	3	16	4.5	5	65 A	VH 17	0267000000	17	8	5	0267100000	A	4x30	0136400000
SAK 35 N/35	135 A			QL 3	0565000000						65 A									
				QL 4	0565100000						65 A									
				QL 10	0565200000						65 A									
SAK 35	135 A			QL 2	0123600000	8	3	16	4.5	5	65 A	VH 17	0267000000	17	8	5	0267100000	A	4x30	0136400000
SAK 35 ex	115 A			QL 3	0123700000						65 A									
SAK 35/35	135 A			QL 4	0123800000						65 A									
				QL 10	0338600000						65 A									
SAK 70	207 A			QL 2	0345300000	14	4	22	5.5	7	180 A	VH 30.5	0345500000	30.5	11	5.5	0345600000	A	5x45	0346100000
SAK 70/35	207 A			QL 3	0167000000						180 A									
SAK 70 ex	178 A																			
SAK 95	250 A			QL 2	0551200000	14	4	28	6	7	142 A	VH 35	0551100000	35	11	5.5	0630200000	B	5x50	Incl.
SAK 95/35	250 A																			
SAK 4 S	16 A			QL 2	0130600000	6	0.6	6.5	3.4	2.4	36 A						0346200000	B	3x6	Incl.
SAK 4 SS	16 A			QL 3	0130700000						36 A									
				QL 4	0130800000						36 A									
				QL 10	0338200000						36 A									
TOP 2.5 T	10 A			QL 2	0207300000	6	2	7.4	3.5			VH 13.5	0248500000	13.5	5	3.5	0303000000	B	3x20	Incl.
TOP 2.5 T/35	10 A																			

# Jumpering System Q/QL

Type	Rated current of the terminal blocks (VDE) A	Q Preassembled Jumpers		QL Jumpering links						Cross-connection continuous current	VH Connection sleeves without threads	BS Fixing screws			SS Screw retainers					
		Type No. poles	Part No.	Type No. poles	Part No.	Dimensions b t L d1 l						Type Length	Part No.	Dimensions L d2 d1		Part No.	Shape	Size M	Screw retainer	
SAK B 10	47 A			QL 2	0131400000	6	2	14	3.4	3.4	47 A					0103300000		4 x 9	0136400000	
SAK H 6	44 A			QL 3	0131500000						47 A									
SAK H 10	61 A			QL 4	0131600000						47 A									
				QL 10	0338700000						36 A									
SAKS 1 & 1/35	10 A			QL 2	0191400000	6	2	12.9	3.4	3	47 A				0346200000	B	3 x 6	Incl.		
SAKS 3 & 3/35	10 A			QL 3	0191500000						47 A									
SAKS 6	10 A			QL 4	0191600000						47 A									
SAKS 7	10 A			QL 10	0338800000						36 A									
KSK 1, 2 & 3															0199700000		3 x 7			
SAKS 4	16 A			QL 2	0328000000	10	4	24	4.8	5	47 A				0103300000		4 x 9	0136400000		
SAKS 4/35	16 A			QL 3	0328100000						47 A									
				QL 4	0328200000						47 A									
				QL 10	0339000000						36 A									
SAKS 2	10 A			QL 2	0207800000	10	4	27.6	4.8	6.5	47 A				0103300000		4 x 9	0136400000		
SAKS 5	63 A			QL 3	0207900000						47 A									
SAKS 5/35	63 A			QL 4	0208000000						47 A									
				QL 10	0338900000						36 A									
AKZ 1.5	15 A	Q 2	0368200000	QL 2	0330200000	4	1.5	5	2.8	2.0	20 A	VH 5	0296800000	5	4	2.8	0400100000	B	2.5 x 11	Incl.
AKZ 1.5 T	10 A	Q 3	0368300000	QL 3	0330300000						20 A									
AKZ 1.5 K	10 A	Q 4	0368400000	QL 4	0330400000						20 A									
AKZ 2.5	10 A	Q 10	0368500000	QL 10	0339100000						20 A									
DK 4 & 4/35	27 A	Q 2	0336400000	QL 2	0297200000	4	0.8	6.1	2.8	2.5	20 A	VH 5	0296800000	5	4	2.8	0400100000	B	2.5 x 11	Incl.
DKB 4/10	27 A	Q 3	0336500000	QL 3	0297300000						20 A									
DK 4 Q/35	27 A	Q 4	0336600000	QL 4	0297400000						20 A									
DK 4 S/35	10 A	Q 10	0368600000	QL 10	0339200000						20 A									
DK 45 SS/35	10 A																			
DKI 4	34 A																			
DKI T 4	34 A																			
DKI S 4	34 A																			
AKZ 4	34 A																			
AKZ 4 S, L, LL	6 A																			
AKB 4	34 A																			
AKZ 4 SS	6 A			QL 2	0297200000	4	0.8	6	2.8	2.5	20 A	VH 8.5	0266900000	8.5	4	2.8	0367700000	B	2.5 x 14	Incl.
AK 4/10	36 A			QL 3	0297300000						20 A									
AK 4/T 10				QL 4	0297400000						20 A									
AK 4 M/10				QL 10	0339200000						20 A									
SAKG 32 & 32/35	150 A			QL 2	0194000000	18	5	32	8.4	9	170 A									
SAKG 70	192 A			QL 3	0441500000															
SAKG 70/35	192 A			QL 4	0441600000															
SAKG 40/32	232 A			QL 2	0194100000	25	5	40	10.5	12.5	170 A									
				QL 3	0263500000															
				QL 4	0409800000															
SAKG 40/35	232 A			QL 2	0211400000	25	5	46	10.5	12.5	250 A									
				QL 4	0445000000															
SAKG 46	309 A			QL 2	0247000000	32	6	46	13.0	16	415 A									
SAKG 46/35				QL 4	0444500000															
SAKG 54	415 A			QL 2	0264400000	40	6	54	17.0	20	600 A									
SAKG 54/35				QL 3	0408000000															
				QL 4	0247400000															
WSI 6/2				QL 2	0470700000	6	1	8	3.4	3	47 A									
				QL 3	0470800000						47 A									
				QL 4	0470900000						47 A									
				QL 10	0471000000						36 A									

# Jumping between terminal blocks of different sizes



Terminal	Item	Type	Part No.	Current	Terminal	Item	Type	Part No.	Current
<b>From SAK 16</b>	1	-	-	-	<b>From SAK 35</b>	1	-	-	-
Sleeve	3	VH 12	0249000000	-	Sleeve	3	VH 17	0267000000	-
Screw	4	BS M 3 x 20	0303000000	-	Screw	4	BS M 4 x 30	0267100000	-
<b>To SAK 6 N</b>	2	-	-	-	Lock washer	5	SS M 4	0136400000	-
Cross-conn. link	5	QL 2	0470300000	-	<b>To SAK 10</b>	2	-	-	-
Sleeve	6	VH 4.5	0303200000	-	Cross-conn. link	6	QL 2	0132300000	47 A
Screw	7	BS M 3 x 26	4166610000	-	Sleeve	7	VH 27	0309400000	-
Lock washer	8	SS M 3	0164400000	-	Screw	8	BS M 3 x 35	0292500000	-
Screw	9	BS M 3 x 20	0303000000	-	Lock washer	9	SS M 3	0164400000	-
Sleeve	10	VH 12	0249000000	-	<b>From SAK 35 N</b>	1	-	-	-
Cross-conn. link	11	QL 2	0194300000	47 A	Sleeve	3	VH 17	0267000000	-
Cross-conn. link	11	QL 3	0194400000	47 A	Screw	4	BS M 4 x 30	0267100000	-
Cross-conn. link	11	QL 4	0194500000	47 A	Lock washer	5	SS M 4	0136400000	-
Cross-conn. link	11	QL 10	0338300000	36 A	<b>To SAK 10</b>	2	-	-	-
<b>To SAK 4</b>	2	-	-	-	Cross-conn. link	6	QL 2	0207400000	47 A
Cross-conn. link	5	QL 2	0281500000	-	Sleeve	7	VH 27	0309400000	-
Sleeve	6	VH 6.5	0286400000	-	Screw	8	BS M 3 x 35	0309800000	-
Screw	7	BS M 3 x 26	4166610000	-	Lock washer	9	SS M 3	0164400000	-
Lock washer	8	SS M 3	0164400000	-	<b>From SAK 16</b>	1	-	-	-
Screw	9	BS M 3 x 20	0303000000	-	Sleeve	3	VH 12	0249000000	-
Sleeve	10	VH 13.5	0248500000	-	Screw	4	BS M 3 x 20	0303000000	-
Cross-conn. link	11	QL 2	0130600000	36 A	Lock washer	5	SS M 3	Inclusive	-
Cross-conn. link	11	QL 3	0130700000	36 A	<b>To SAK 6 N</b>	2	-	-	-
Cross-conn. link	11	QL 4	0130800000	36 A	Cross-conn. link	6	QL 2	0281600000	47 A
Cross-conn. link	11	QL 10	0338200000	36 A	Sleeve	7	VH 17.5	0285200000	-
<b>To SAK 2.5</b>	2	-	-	-	Screw	8	BS M 3 x 25	0292500000	-
Cross-conn. link	5	QL 2	0470300000	-	Lock washer	9	SS M 3	0164400000	-
Sleeve	6	VH 12	0249000000	-	<b>To SAK 2.5</b>	2	-	-	-
Screw	7	BS M 3 x 30	0296200000	-	Cross-conn. link	6	QL 2	0194300000	27 A
Lock washer	8	SS M 3	0164400000	-	Sleeve	7	VH 19	0285100000	-
Screw	9	BS M 3 x 15	0359000000	-	Screw	8	BS M 3 x 25	0292500000	-
Sleeve	3	VH 12.5	0308000000	-	Lock washer	9	SS M 3	0164400000	-
Sleeve	10	VH 8	0266700000	-	<b>From SAK 10</b>	1	-	-	-
Cross-conn. link	11	QL 2	0155900000	27 A	Sleeve	3	VH 12.5	0308000000	-
Cross-conn. link	11	QL 3	0156000000	27 A	Screw	4	BS M 3 x 20	0303000000	-
Cross-conn. link	11	QL 4	0156100000	27 A	Lock washer	5	SS M 3	Inclusive	-
Cross-conn. link	11	QL 10	0338100000	27 A	<b>From SAK 4</b>	2	-	-	-
<b>From SAK 10</b>	1	-	-	-	Cross-conn. link	6	QL 2	0194300000	36 A
Screw	4	BS M 3 x 20	0303000000	-	Sleeve	7	VH 13.5	0248500000	-
<b>To SAK 4</b>	2	-	-	-	Screw	8	BS M 3 x 20	0303000000	-
Sleeve	3	VH 13.5	0248500000	-	Lock washer	9	SS M 3	Inclusive	-
Cross-conn. link	5	QL 2	0144300000	-	<b>To SAK 6 N</b>	1	-	-	-
Screw	7	BS M 3 x 20	0303000000	-	Sleeve	3	VH 12.5	0308000000	-
Screw	9	BS M 3 x 20	0303000000	-	Screw	4	BS M 3 x 20	0303000000	-
Sleeve	10	VH 13.5	0248500000	-	Lock washer	5	SS M 3	Inclusive	-
Cross-conn. link	11	QL 2	0130600000	36 A					
Cross-conn. link	11	QL 3	0130700000	36 A					
Cross-conn. link	11	QL 4	0130800000	36 A					
Cross-conn. link	11	QL 10	0338200000	36 A					
<b>To SAK 2.5</b>	2	-	-	-					
Sleeve*	3	VH 12	0249000000	-					
Cross-conn. link	5	QL 2	0194300000	-					
Sleeve	6	VH 6.5	0286400000	-					
Screw	7	BS M 3 x 20	0303000000	-					
Screw	9	BS M 3 x 15	0359000000	-					
Sleeve	10	VH 8	0266700000	-					
Cross-conn. link	11	QL 2	0155900000	27 A					
Cross-conn. link	11	QL 3	0156000000	27 A					
Cross-conn. link	11	QL 4	0156100000	27 A					
Cross-conn. link	11	QL 10	0338100000	27 A					
Sleeve	3	VH 13	0304000000	-					

# Jumpering Combs QB

External jumpering combs permit current branching on terminal blocks which do not have a jumpering channel or for those which have two potentials to be fed in parallel. Types QB 2, 3 and 4 are insulated jumpering combs. Types QB 58 and 75 require an insulation sleeve (IP). Both versions can be cut to size.

**Using external jumpering reduces the nominal cross-section to the next smallest wire size.**



## QB

External jumper combs permit current branching on terminal blocks which do not have internal jumper channels. Type QB jumpers are available in three different pitches.

### 6 mm pitch

Type	No. of Poles	Current	Part No.
QB 2, insulated	2	27 A	0482700000
QB 3, insulated	3	27 A	0482800000
QB 4, insulated	4	27 A	0482900000
QB 75, straight, bare	75	18 A	0535200000
QB 75, angled, bare	75	18 A	0526400000
IP 75, insulation sleeve			0526700000

### 6.5 mm pitch

Type	No. of Poles	Current	Part No.
QB 2, insulated	2	27 A	0482700000
QB 3, insulated	3	27 A	0482800000
QB 4, insulated	4	27 A	0482900000
QB 25, straight, bare	25	18 A	9145500000

### 8 mm pitch

Type	No. of Poles	Current	Part No.
QB 2, insulated	2	27 A	0461100000
QB 3, insulated	3	27 A	0461200000
QB 4, insulated	4	27 A	0461300000
QB 58, straight, bare	58	18 A	0545400000
QB 58, angled, bare	58	18 A	0545300000
IP 58, insulation sleeve			0546000000



## QB 25

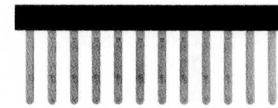
External jumpers with insulation sleeve, 6.2 mm pitch, 25 pole-angled, non-locking.



## VQB

External jumpers with insulation sleeve, 6 mm pitch, 50 poles, locking. VQB jumpers are primarily used on DLA, DLD and DLI sensor terminals.

Color	Current	Part No.
Blue	24 A	1633280000
Red	24 A	1633290000
Black	24 A	1635120000



## WQB

Chamfered edge. Easily broken off by hand for terminals which are not to be commoned. 5 mm pitch.

Current	Part No.	Part No.
	(for WDU 1.5/2.5 and WTR 2.5)	(for WDK 2.5)
27 A	1579010000	1578950000
27 A	1579020000	1578960000
27 A	1579030000	1578970000
27 A	1579040000	1578980000
27 A	1579050000	1578990000
27 A	1579060000	1579000000

# Jumpering Plugs QS and DQS

Type WQS, QS, and DQS jumpering plugs are used in conjunction with plug sockets for terminal block cross-connections which can be easily separated.

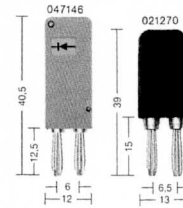
## DQS 2

for 2 mm diameter sockets



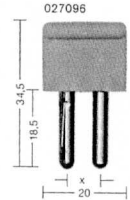
## DQS 2

for 2.3 mm diameter sockets



## QS 2

for 4 mm diameter sockets



For 5 mm terminal width (e.g. WDU 2.5)

For 6 mm terminal width (e.g. SAK 2.5)

With comb/as test plug

With diode 1N4007

Without diode

For 6.5 mm terminal width (e.g. SAK 4)

For 8 mm terminal width (e.g. SAK 6 N)

For 10 mm terminal width (e.g. SAK 10)

For 12 mm terminal width (e.g. SAK 16)

Type	Part No.
DQS 2 (2-pole)	0300260000

Loadable up to 10 A
---------------------

Type	Part No.
WDS 2 (2-pole)	1069900000

DQS 2 (2-pole)	0471560000
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Loadable up to 10 A
---------------------

DQS 2 (2-pole)	0471460000
----------------	------------

Max. 1 A
----------

DQS 2 (2-pole)	0471660000
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Fitting space 9 x 9 x 4.5
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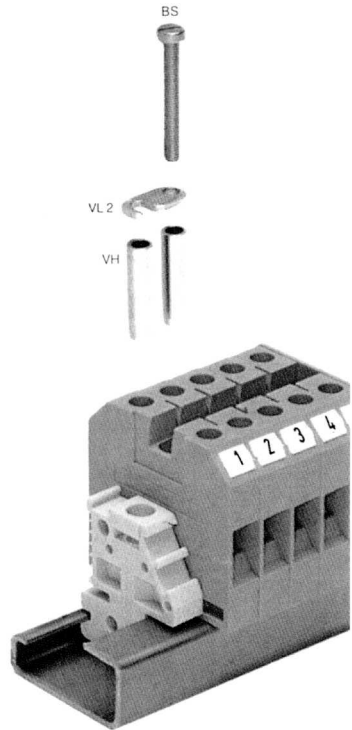
QS 2 (2-pole)	0212700000
---------------	------------

Loadable up to 20 A
---------------------

QS 2 (2-pole)	0270960000
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# Switchable Jumpering Links

Switchable jumper links are designed for 2 pole cross-connections. Assembly is carried out with a VH-type connection sleeve and a BS-type screw. See table for ordering data.



**VL 2**  
Switchable jumper links

**VH**  
Jumper sleeves

**BS**  
Screws



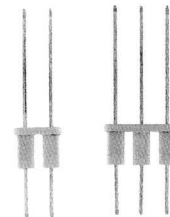
For Terminal Type	Type	Part No.	Type	Part No.	Type	Part No.
SAK 4/SAK 4/10	VL 2	0197000000	VH 19	0285100000	BS M3 x 25	0292500000
SAK 6 N/SAK 6/10/SAK 6/35	VL 2	0194700000	VH 19	0285100000	BS M3 x 25	0292500000
SAK 6/10/SAK 10/10/SAK 10/35	VL 2	0135900000	VH 19	0285100000	BS M3 x 25	0292500000
SAK 16/SAK 16/35	VL 2	0135800000	VH 19	0285100000	BS M3 x 25	0292500000
SAK 35/SAK 35/35	VL 2	0124000000	VH 24.5	0298700000	BS M4 x 35	0298900000
SAKC 10	VL 2	0135800000	VH 23	0348700000	BS M4 x 30	0267100000

# Jumper Plugs

**ZZA 2.5**  
Additional connection for:  
ZDU 2.5, ZDU 2.5/3 AN,  
ZDU 2.5/4 AN, ZTR 2.5  
and ZTR 2.5/3 AN

**SFEH**  
Pin header

**ZBS 1**  
Component plug



Ordering data	Version	Type	Part No.	Type	Part No.	Type	Part No.
	Wemid	ZZA 2.5	1646690000				
	With pips, Wemid	ZZA 2.5ZA	1649350000				

SFEH 1684800000

ZBS 1	1764540000
ZBS 1 f. LED	1764550000

**Dimensions**

Width/length/height mm (in.) 6/21/61 (.23/.82/2.4)  
Insulation stripping length mm (in.) 10 (.39)

**Technical data**

Rated voltage /  
rated current/ wire size VDE 400 V / 17.5 A / 2.5 mm<sup>2</sup>

## Switching Jumper accessories for disconnect terminals

**Type WTL/D/Q and SAKT:  
Cross-connection slide QVS  
Disconnect lock SSP 3  
for WTL 6/1, SAKT 1 and 2**

Attaching parts to the terminal blocks requires VH 19 connection sleeves and BS 25 screws (or StB 35 socket). The screws have an insulation sleeve that acts as a color code and a screwdriver guide. The jumper slides are designed so that the sockets located in the terminals remain free for test plugs in any position.

The 2 pole design, Type QVS 2-S, is designed so that operation with inserted test plugs is possible. If the possibility to test is also required with inserted QVSS, the fixture can be constructed with the StB 35 socket. The creepage and clearance paths required for the rated voltage of the terminal can be changed by installing accessory components.

### WTL 6/1/SAKT 1 and WTD 6/1

For adjacent QVS 60 VAC  
For adjacent StB 25 60 VAC

### SAKT 2

For adjacent QVS 60 VAC  
For adjacent StB 25 60 VAC

In order to maintain the rated voltage, TW partitions or TSch 2 small partitions must be inserted between adjacent components.

**SSP WTL + SSP 3** prevents the undesired opening and closing of circuits. It blocks the disconnect slide in its respective position. The disconnect lock can easily be pressed into the terminal from above. However, it can only be released with a tool.

QVS 2 (30730) cannot be used with SAKT 1, WTD 6/1, WTL 6/1. Use QVSK 1 (167036).

### QVS, WTQ, WKB, WKS

Jumper slides



Type	Part No.
QVS 2 2 pole	0307300000
QVSK 2 2 pole	1670360000
QVS 3 3 pole	0329300000
QVS 4 4 pole	0307400000
QVS 2 S 2 pole	0358460000
WTQ 6/1	
WKB 1/2 2 pole	1604280000
WKB 1/3 3 pole	1604300000
WKB 1/4 4 pole	1604320000
WKB 1/10 10 pole	1604330000

WTL 6/2 WTL 6/3

WKS 1/2 2 pole	1604270000
WKS 1/3 3 pole	1604290000
WKS 1/4 4 pole	1604310000

### VH 19

Connection sleeve



Type	Part No.
VH 19	0318000000

### BS 25

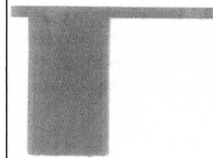
Screws



Type	Part No.
BS 25	0334700000
Without insulation sleeve	
BS 25	0335700000
Yellow insulation sleeve	
BS 25	0335600000
Green insulation sleeve	
BS 25	0335800000
Purple insulation sleeve	
BS 25	0335300000
Gray insulation sleeve	
BS 25	0335200000
Black insulation sleeve	
BS 25	0335400000
Blue insulation sleeve	
BS 25	0335500000
Red insulation sleeve	

### SSP 3

Disconnect lock



Type	Part No.
SSP 3	0531760000
WTL 6/2 WTL 6/3	
SSP WTL 6/2	1604200000

## Jumper WQV

for WTL 6/2 and WTL 6/3

## Jumper Links QL

Type QL jumper brackets serve as fixed, i.e. non-switchable, jumpers for the disconnect terminal types SAKT 1, SAKT 2 and SAKT 4. VH 12 connection sleeves and BS M 3 x 20 screws made of CuNi 60 are required for fixing. The creepage and clearance paths required for the rated voltage of the terminal can be changed by installing accessory components. This applies in particular to the cross-connection of adjacent terminals of differing potentials. The following restrictions must be observed:

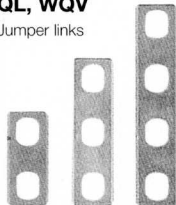
**WDL 6/1/SAKT 1** for adjacent QL 250 VAC

**SAKT 2** for adjacent QL 60 VDC

**SAKT 4** In order to maintain the rated voltage, TW partitions or TSch 2 small partitions must be inserted between adjacent components.

### QL, WQV

Jumper links



Type	Part No.
For SAKT 1 and SAKT 2	
QL 2 2-pole	0194300000
QL 3 3-pole	0194400000
QL 4 4-pole	0194500000

For SAKT 4	
QL 2 2-pole	0155900000
QL 3 3-pole	0156000000
QL 4 4-pole	0156100000
QL 5 5-pole	0338100000

For WTL 6/2, 6/3

WQV 6/2	1052360000
WQV 6/3	1054760000
WQV 6/4	1054860000
WQV 6/10	1052260000

### VH

Connection sleeves



Type	Part No.
For SAKT 1 and SAKT 2	
VH 12	0249000000

For SAK 4	
VH 8	0266700000

### BS

Screws made of CuNi 60



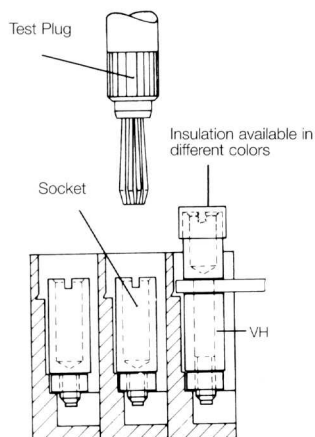
Type	Part No.
For SAKT 1 and SAKT 2	
BS M 3 x 20	0377100000
CuNi 60	
(copper-nickel alloy)	

For SAKT 4	
BS M 3 x 15	0377200000
CuNi 60	
(copper-nickel alloy)	

# Sockets

## StB

Type StB sockets are inserted either into the current bar or screwed into the terminal block in place of the clamping screw depending on the terminal block. They accept Type PS test plugs and Type QS jumpering plugs. If a possibility to test is required with inserted jumpers, an StB 29.5 or 30.5, which has an insulation sleeve and can accept test plug PS 4, is inserted instead of the screw.

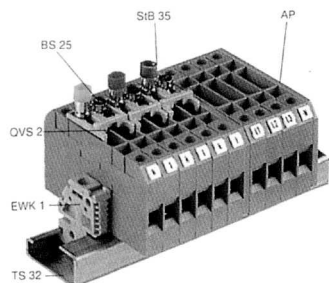
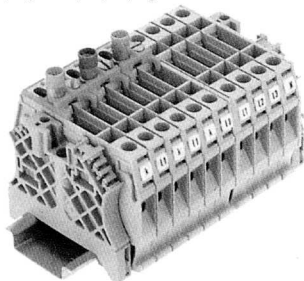


## Sockets StB for WTL/SAKT

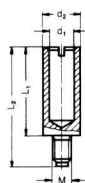
The Type StB 25 socket accepts the PS 4 test plug in Type WTL 6/1, SAKT 1 and SAKT 2 disconnect terminals or the Type QS jumper plug.

The Type StB 35 socket is used when simultaneous testing must be carried out with inserted jumper slide.

With insulation sleeves as shock protection and color coding for test plugs and jumper plugs with a diameter of 4 mm.

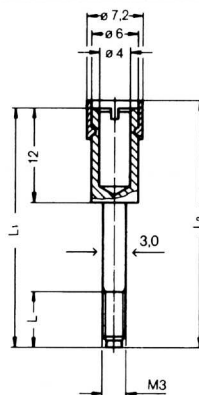


## StB 5.5...17



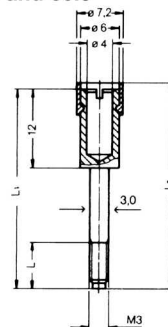
Type	Part No.	L1	L2	d1	d2	M	For terminal type
StB 5.5	0122700000	5.5	11	2.3	3.7	3	SAKL 4/20*
StB 6	0379400000	6	11.5	2.3	3.9	3	AKZ 4 DK 4, SAKR*, SAK 4
StB 6	0130200000	6	13	2.3	3.9	2.5	SAK 2.5*
StB 7	0358500000	7	14.5	2.3	4	3	SAKC 4, SAK 4*, WDU 4
StB 7.5	0130000000	7.5	17	4	6	4	SAK 10, SAKB 10*
StB 8.5	0215700000	8.5	11.5	2.3	4	2.5	AKZ 4/DK 4/ SAKD 2.5 N WDU 2.5
StB 8.5	0280600000	8.5	12	2.3	5	3	SAK 2.5 WDU 4, 6, 10
StB 8.5	0244600000	8.5	12	2	4.5	3	SAKT 4 WDU 4, 6, 10
StB 13.5	0135200000	13.5	18.5	4	6	4	SAKA 10, SAKC 10
StB 14	0168600000	14	17.5	2.3	5	3	SAK 4
StB 14	0169900000	14	19	4	6	3	SAK 6 N, 10, 16 SAKT 1 + 2
StB 16	0140200000	16	23	4	7	4	SAK 35/35 N SAKB 10

## StB 25



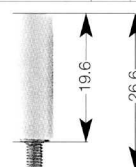
Type	Color	Part No.	For terminal type
StB 25	Yellow	0267200000	SAKT 1 and SAKT 2
	Green	0271200000	
	Violet	0271300000	
	Black	0271500000	
	Gray	0271400000	

## StB 28.5 and 30.5



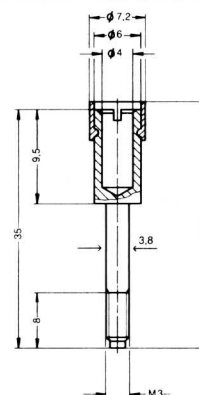
Type	Color	Part No.	L1	L2	L	For terminal type
StB 30.5	black	0341000000	30.5	31.7	7	SAK 4, SAK 6 N
StB 30.5	gray	0341100000	-	-	-	SAK 10, SAK 16
StB 30.5	blue	0341200000	-	-	-	
StB 30.5	red	0341300000	-	-	-	
StB 30.5	green	0341400000	-	-	-	
StB 30.5	yellow	0341500000	-	-	-	
StB 30.5	violet	0341600000	-	-	-	
StB 28.5	black	0133400000	28.5	29.7	9	SAK 2.5

## StB 21.6



Type	Color	Part No.	for terminal type
StB 21.6	beige	1071000000	WTL 6/3
StB 21.6	yellow	1071010000	ZTL 6
StB 21.6	green	1071020000	
StB 21.6	violet	1071030000	
StB 21.6	black	1071040000	
StB 21.6	blue	1071080000	
StB 21.6	red	1778900000	

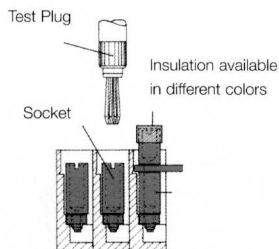
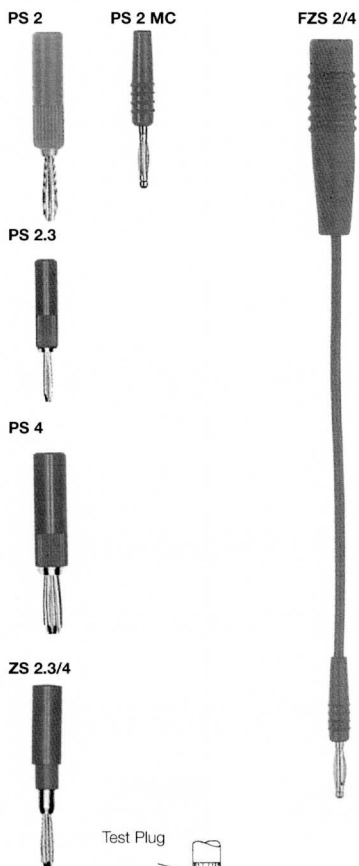
## StB 35



Type	Color	Part No.	For terminal type
StB 35	Yellow	0389000000	SAKT 1 and SAKT 2
	Black	0388500000	
	Red	0388800000	

\*Used in place of terminal screw. Other blocks use the StB in the jumper hole in the current bar.

## Test Plug

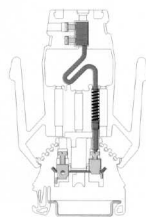


Type PS test plugs are used for final testing of completed, wired terminal strips. Test plugs for 2.0, 2.3 and 4.0 mm diameter sockets are available. The ZS 2.3/4 adapter plug allows a 4 mm diameter plug to be converted for a socket with a diameter of 2.3 mm. Conversion to a 4 mm diameter test socket is possible with the flexible adapter plugs FZS 2/4 and WTA/ZS 4.

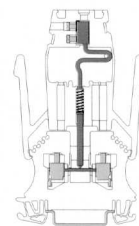
Type	Part No.
<b>PS 2</b> for sockets with 2.0 mm Ø soldering conductor cross section 1.5 mm <sup>2</sup> f	<b>0293800000</b>
<b>PS 2 MC</b> Soldering conductor cross section 0.75 mm <sup>2</sup> , can also be plugged directly into the current bar tapped hole when using terminal types AKZ 4, AKB 4, AKZ 2.5, AKZ 1.5.	<b>0310000000</b>
<b>PS 2.3</b> for sockets with 2.3 mm Ø Soldering conductor cross section 1.5 mm <sup>2</sup> f	<b>0180400000</b>
<b>PS 4</b> for sockets with 4 mm Ø Soldering conductor cross section 2.5 mm <sup>2</sup> f	<b>0299600000</b>
<b>FZS 2/4</b> Flexible adapter for conversion from sockets with 2.0 mm inner diameter to a 4.0 mm inner diameter	<b>1276300000</b>
<b>ZS 2.3/4</b> Adapter for conversion of sockets with 2.3 mm inner diameter to inner diameter of 4.0 mm, can also be plugged into the current bar tapped hole when using terminal types SAK 2.5 and SAK 4.	<b>0249600000</b>

## Test Adapters

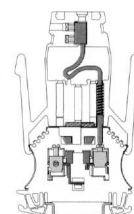
**WTA 1/...**  
For WDU 1.5



**WTA 2/..., WTA3/...**  
For WDU 2.5, WDU 4  
WDU 2.5/1.5 ZR,  
WDU 1.5 ZZ  
WDU 6/10 (single pole)



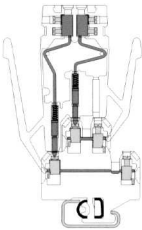
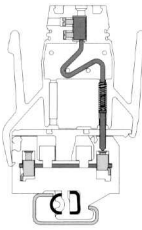
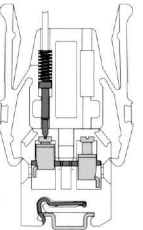
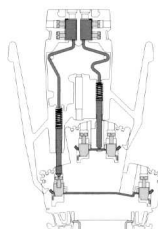
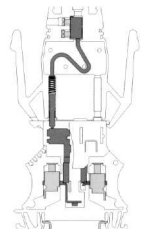
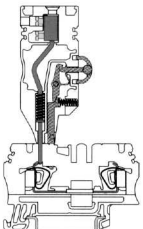
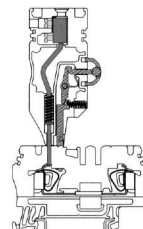
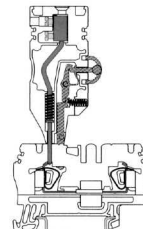
**WTA 6/...**  
For WTR 2.5



Dimensions (mm)	WTA 2		WTA 3		WTA 6	
height (with TS35 x 7.5)	98.2	107.6	107.6	107.6	107.6	107.6
length	66.1	66.1	66.1	66.1	66.1	66.1
row width	5.0	5.0	6.0	6.0	5.0	5.0
stripping length	6.0	6.0	6.0	6.0	6.0	6.0
<b>Technical Data</b>						
Rated voltage / current / cross-section						
per UL/CSA	300 V / 6 A / 1.5 mm <sup>2</sup>		300 V / 6 A / 1.5 mm <sup>2</sup>		300 V / 6 A / 1.5 mm <sup>2</sup>	
per VDE 947-7-1	250 V / 6 A / 1.5 mm <sup>2</sup>		250 V / 6 A / 1.5 mm <sup>2</sup>		250 V / 6 A / 1.5 mm <sup>2</sup>	
<b>Ordering Data</b>						
<b>Model</b>	<b>Type</b>	<b>Part No.</b>	<b>Type</b>	<b>Part No.</b>	<b>Type</b>	<b>Part No.</b>
1 pole	WTA 1	<b>1632290000</b>	WTA 2	<b>1632320000</b>	WTA 6	<b>1632380000</b>
with pins*	WTA 1/ZA	<b>1632300000</b>	WTA 3	<b>1632350000</b>	WTA 6/ZA	<b>1632390000</b>
10 poles	WTA 1/10	<b>1632310000</b>	WTA 2/ZA	<b>1632330000</b>	WTA 6/10	<b>1632400000</b>
			WTA 3/ZA	<b>1632360000</b>		
			WTA 2/10	<b>1632340000</b>		
			WTA 3/10	<b>1632370000</b>		
<b>Accessories</b>						
Strain relief	ZE 1	<b>1632150000</b>	ZE 1	<b>1632150000</b>	ZE 1	<b>1632150000</b>
	<b>WTA 5/... for WDU 2.5...10</b>		<b>STA 1/...</b>	<b>STA 2/...</b>		
			For SAK 4...10	SAK 2.5		
			solder connection			
<b>Dimensions (mm)</b>						
Height	(with TS32)		<b>STA 1</b>	<b>STA 2</b>		
	(with TS 35 x 7.5)	68.2	111.6	107.6		
	(with TS 15)		104.6	100.6		
Length		17.0	66.1	66.1		
Row width		5.0	6.5	6.0		
Stripping length		14	6.0	6.0		
<b>Technical Data</b>						
Rated voltage / current / cross-section						
per UL/CSA	300 V / 6 A / 0.75 mm <sup>2</sup> **		300 V / 6 A / 1.5 mm <sup>2</sup>			
per VDE 947-7-1	250 V / 6 A / 0.75 mm <sup>2</sup> **		250 V / 6 A / 1.5 mm <sup>2</sup>			
<b>Ordering Data</b>						
<b>Model</b>	<b>Type</b>	<b>Part No.</b>	<b>Type</b>	<b>Part No.</b>		
1 pole	WTA 5/1	<b>1051260000</b>	STA 2	<b>1632410000</b>		
with pins*	-	-				
10 pole	WTA 5/10	<b>1062060000</b>				
<b>Accessories</b>						
Cover plate						
Strain relief						

\*Pins allow test adapters to be attached together.  
\*\*For soldered connection

# Test Adapters

	<b>STA 4/...</b> For DK 4, DK 4V DK 4Q	<b>STA 5/...</b> For ASK 1	<b>ATA 1/...</b> For AKZ 4 (153826) AKZ 4/10 (148936)		
					
<b>Dimensions mm (in)</b>					
Height	with TS 32 with TS 35 x 7.5 with TS 15	106 (4.17")		67.4 (2.65") 39.8 (1.57")	
Length		71 (2.80")			
Width		6 (.23")		6 (.23")	
Strip Length		6 (.23")		14	
<b>Technical Data</b>					
Rated voltage/current/cross section	UL/CSA VDE	300 V / 6 A / 1.5 mm <sup>2</sup> 250 V / 6 A / 1.5 mm <sup>2</sup>	300 V / 6 A / 1.5 mm <sup>2</sup> 250 V / 6 A / 1.5 mm <sup>2</sup>	300 V / 6 A / 0.75 mm <sup>2</sup> 250 V / 6 A / 0.75 mm <sup>2</sup>	
<b>Ordering Data</b>		<b>Type</b> <b>Part No.</b>	<b>Type</b> <b>Part No.</b>	<b>Type</b> <b>Part No.</b>	
	1 pole	STA 4 <b>1649580000</b>	STA 5 <b>1650230000</b>	ATA 1 <b>1632530000</b>	
	with pins*	STA 4/ZA <b>1649590000</b>		ATA 1/ZA <b>1632540000</b>	
	10 pole		STA 5/10 <b>1640260000</b>		
<b>Accessories</b>				AP/ATA 1 <b>1538370000</b>	
End Plate					
	<b>WTA 4/...</b> for WDK 2.5 WDK 2.5V, WDK 2.5F WDK 2.5FF	<b>WTA 7/...</b> for WSI 6, WSI 6/2	<b>ZTA 1/...</b> for ZDU 2.5, ZPE 2.5,	<b>ZTA 2/...</b> for ZDU 4, ZPE 4	<b>ZTA 3/...</b> for ZDU 6 and ZPE 6 (single pole)
					
<b>Dimensions mm (in)</b>					
Height	125 (4.92")	120 (4.72")	99.1 (3.90")	103.5 (4.07")	105.5 (4.15")
Length	62 (2.44")	68 (2.68")	31.5 (1.24")	31.5 (1.24")	31.5 (1.24")
Width	5 (.20")	6 (.23")	5 (.20")	6 (.23")	5 (.20")
Strip Length	6 (.23")	6 (.23")	6 (.23")	6 (.23")	6 (.23")
<b>Technical Data</b>					
Rated voltage/current/cross section	UL/CSA VDE	300 V / 6 A / 1.5 mm <sup>2</sup> 250 V / 6 A / 1.5 mm <sup>2</sup>	300 V / 6 A / 1.5 mm <sup>2</sup> 250 V / 6 A / 1.5 mm <sup>2</sup>	— 250 V / 9 A / 1.5 mm <sup>2</sup>	— 250 V / 9 A / 1.5 mm <sup>2</sup>
<b>Ordering Data</b>		<b>Type</b> <b>Part No.</b>	<b>Type</b> <b>Part No.</b>	<b>Type</b> <b>Part No.</b>	<b>Type</b> <b>Part No.</b>
	1 pole	WTA 4 <b>1649600000</b>	WTA 7 <b>1650210000</b>	ZTA 1 <b>1609040000</b>	ZTA 2 <b>1609060000</b>
	with pins*	WTA 4/ZA <b>1649610000</b>		ZTA 1/ZA <b>1609050000</b>	ZTA 2/ZA <b>1609070000</b>
	10 pole	WTA 4/10 <b>1649620000</b>			

\*Pins allow test adapters to be attached together.

TA 1



Type	Part No.
TA 1	0535860000
The conductor is soldered or crimped on with an HTG 58 crimping tool	
HTG 58	9012000000
Conductor max. 0.75 mm <sup>2</sup>	
Remove stop	
Stripping length 14 mm	

WTA/ZS 4



Type	Part No.
WTA/ZS 4 RT	1537800000
WTA/ZS 4 SW	1568310000
Flexible adapter plugs for converting W-Series test adapters to a 4 mm test socket. Length: 60 mm	

## Busbars

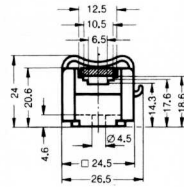
In switchgear and control systems, it may be necessary to connect the N and ground conductors at a central point. For this purpose, busbars are available to which numerous conductors can be connected in a limited space (up to 70 wires on a 1m busbar). The conductors are connected via a pressure clamp or a clamping yoke. With the pressure clamp, no eyelets need be fitted. A locating flange on the pressure clamp engages in the busbar and holds the clamp firmly in place. Clamping yokes can be moved on the busbar and therefore, adapted to the installation wiring. The busbar can be used unslotted in any desired length. It is fixed in place with SH support blocks which can also be arranged between the clamping yokes in the case of longer busbars.

### Current-carrying capacity of the busbars (VDE)

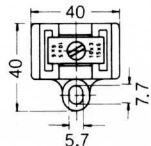
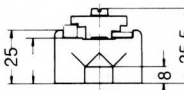
	A
SSch 10 x 3 St	63
SSch 10 x 3 Cu	140
SSch 10 x 3 Ms	100
SSch 15 x 6 Cu	265
SSch 6 x 6 Cu	140
SSch 6 x 6 Ms	100
NSch 15 x 2 Cu	80
ESch 12 x 2 St	45

## Support Blocks

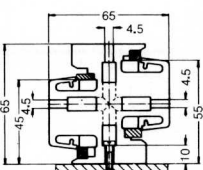
SH 1



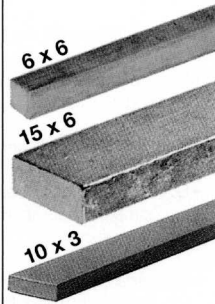
SH 2S



SH 3



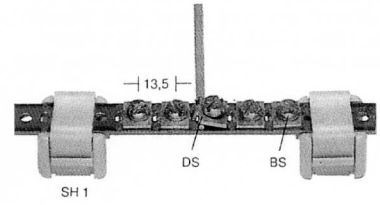
SSch 10 x 3  
6 x 6  
15 x 6



Length: 1 m

Type	Part No.
SSch	0348900000
Tin-plated Cu, 10 x 3 mm (140 A)	
SSch	0259800000
Bare brass, 10 x 3 mm (100 A)	
SSch	0438000000
Plated steel, 10 x 3 mm (63 A)	
SSch	0571300000
Tin-plated Cu, 6 x 6 mm (140 A)	
SSch	0571200000
Bare brass, 6 x 6 mm (100 A)	
SSch	0357400000
Tin-plated Cu, 15 x 6 mm (265 A)	

NSch 15 x 2



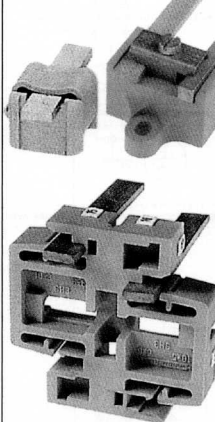
Length: 1 m

Type	Part No.
NSch	0280200000
Bare Cu, 15 x 2 mm (80 A)	
DS	0280100000
Pressure clamp	
BS M 5 x 8	0296700000
Clamping screw	
<b>Connection data</b>	
Single strand 0.5...2.5 mm <sup>2</sup> screw connection, max. 27 A	
Stripping length: 9 mm	
Cable lug, Max: 16 mm <sup>2</sup>	

Length: 1 m

Type	Part No.
ESch	0280300000
Plated steel, 12 x 2 mm (45 A)	
DS	0280100000
Pressure clamp	
BS M 5 x 8	0296700000
Clamping screw	
<b>Connection data</b>	
Single strand 0.5...2.5 mm <sup>2</sup> screw connection, max. 27 A	
Stripping length: 9 mm	
Cable lug, Max: 10 mm <sup>2</sup>	

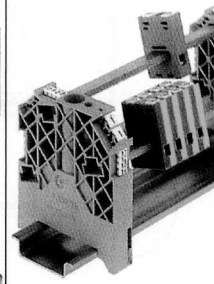
SH 1  
SH 3



Type	Part No.
SH 1 PA	0299860000
for 10 x 3/6 x 6/15 x 2/12 x 2	
Base SH 1	0401460000
Clip SH 1	6359600000
SH 2 S KrG	0641720000
for 10 x 3/6 x 6/10 x 5	

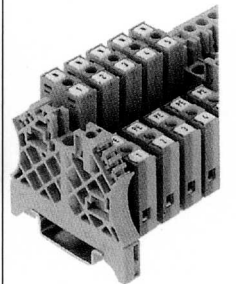
Accessories for SH 1:	
BS M 4 x 9	0103300000
Fixing screw	
for 1 SH 1 unit	
BS M 4 x 30	0267100000
Fixing screw	
for 2 SH 1 units	
stacked	

WEW 35/1



Type	Part No.
WEW 35/1	1059000000
for 10 x 3/6 x 6	
The assembly picture shows the WEW 35/1 as a busbar support block together with the ZB 4 G clamping yoke.	

WEW 35/2



Type	Part No.
WEW 35/2	1061200000
for 10 x 3/6 x 6	
The assembly picture shows the WEW 35/2 as a busbar support block together with the ZB 4 G clamping yoke.	

# Shield Connection Terminals

The clamping yokes of the KLBÜ series permit a reliable and easy connection of cable shieldings. Five different versions for different cable diameters can be installed simply on a 10 x 3 mm busbar. Different busbar supports complement the series.

The main features of the connection concept are:

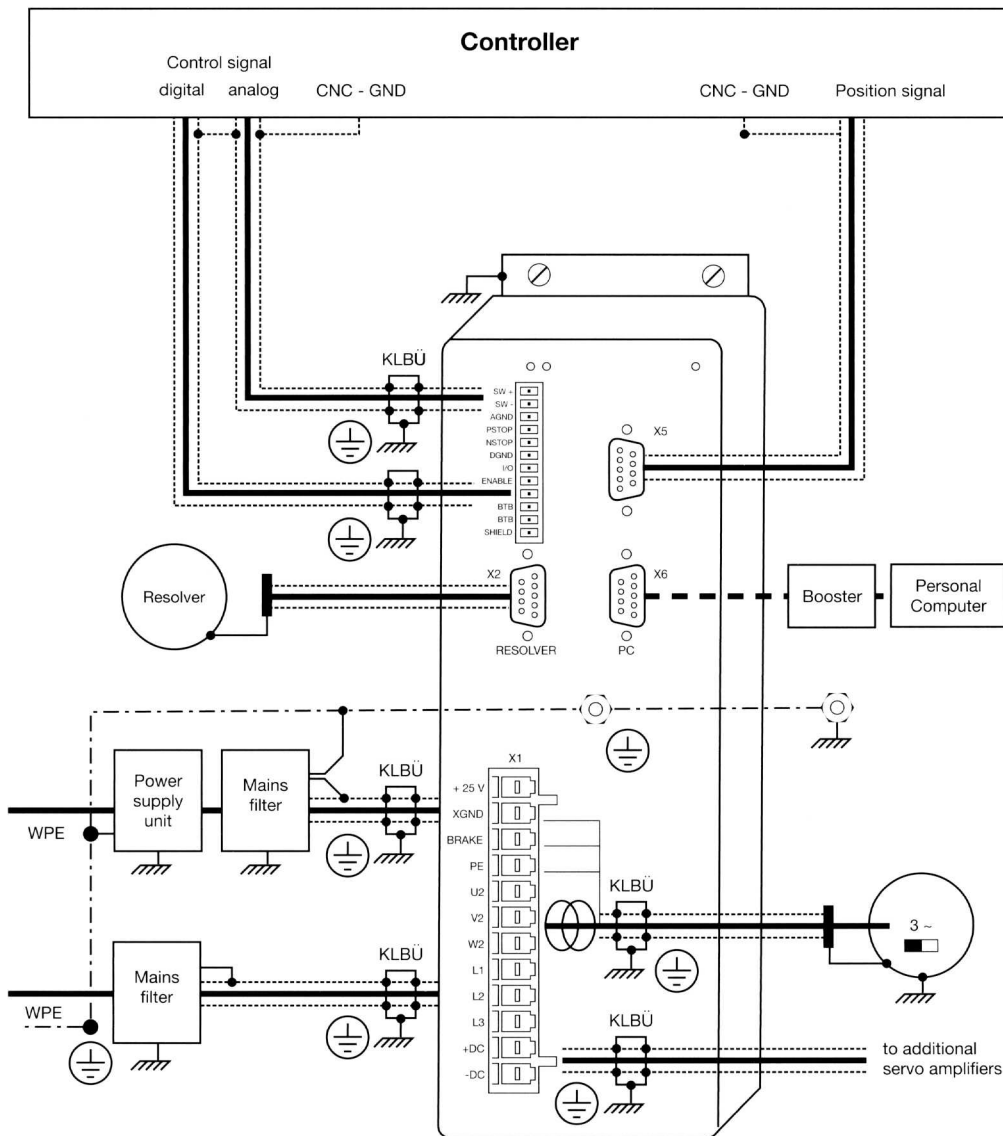
- Easy manual swivelling onto the busbar-also additional.
- No assistance tools are necessary.
- Diameter changes (floating) of the cable isolation are completely compensated by the clamping yoke's elasticity.
- Busbar supports can be installed on the mounting rails. This allows the 10 x 3 mm busbar to be placed in optimum position in front of the terminals.
- Complete range for conductors from 2 to 32 mm Ø.

**The following example of a sensor amplifier with all relevant components demonstrates the practical realization:**

All shields are connected to a 10 x 3 mm copper rail via the KLBÜ.

The potential compensation to the reference mass is performed via lines with a large cross section on protective conductor terminals of the WPE type.

To suppress interferences from the network, net filters are used.



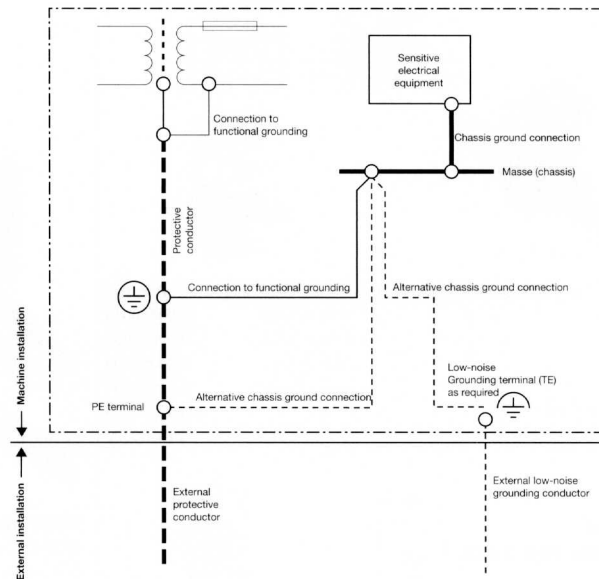
# Potential Compensation -theory and practice

## The theoretical concept

The VDE 0113 - Part 1 prescribes a potential compensation for the electric equipment of machines. At the same time, undesired effects of electrostatic, electromagnetic and network-bound interferences are to be avoided.

Suitable measures are:

- Usage of filters and time delays.
- Distribution of reference potentials in "Contaminated" and "Clean".
- Neutral grounding of all reference potentials with large cross sections ( $\geq 6 \text{ mm}^2$ ).
- All mass connections are to be kept as short as possible.
- Routing of all lines in parallel to the mass surface.
- Using of shielded lines and, if possible, grounding of the shield on both sides.
- Separation and shielding of switching devices and interference-sensitive component groups.



## Implementation of the theoretical concept in own application

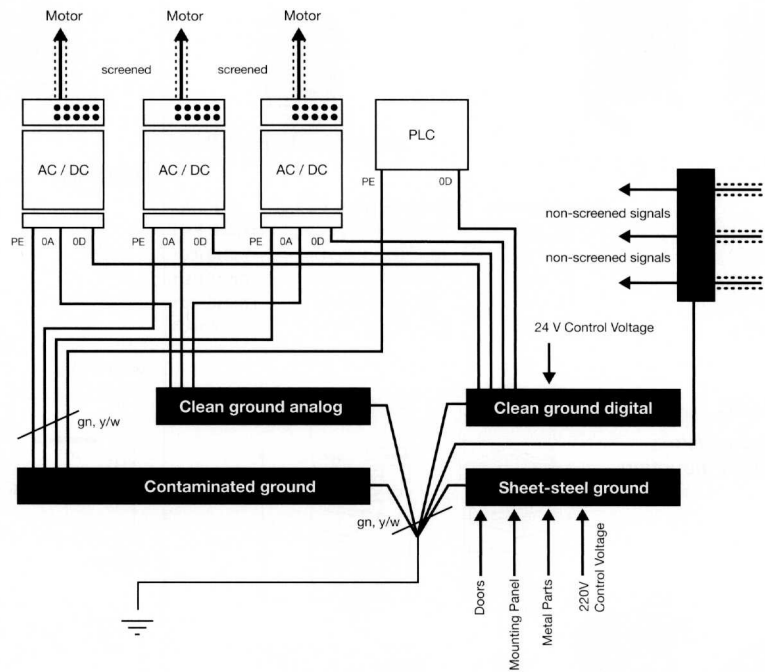
The distribution of the reference masses, the neutral grounding and the distribution of analog, digital and protective grounding can be represented best by the control of three sensor amplifiers.

All PE connections of the sensor amplifiers are assigned to the "Contaminated Ground" reference potential.

The OV potential is divided in digital and analog masses.

For all motor connections and all signal connections, shielded lines are used and the shield is to be grounded on both sides.

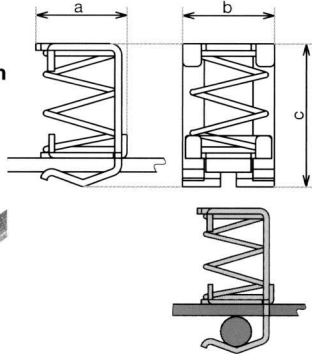
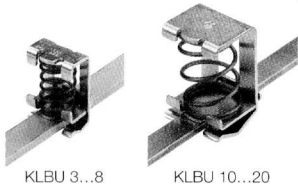
The mass potentials are neutral-grounded.



## Shield Connection Terminals

### KLBU

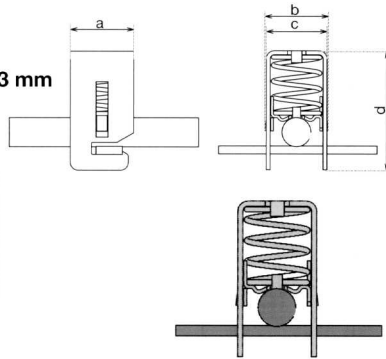
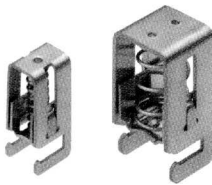
Clamping yokes  
for mounting rails 10 x 3 mm



Type	Cable Diameter	Dimensions (a x b x c)	Part No.
KLBU 3...8	3...8	13 x 18 x 26	1600480000
KLBU 4...13.5	4...13.5	20 x 20.5 x 31.5	1592810000
KLBU 10...20	10...20	25 x 26 x 40	1600490000
KLBU 2x2-6	2...6	15 x 18 x 24	1675350000
KLBU 3-8 SC (Direct Mount)	2...8		1692290000
KLBU 15-32	15...32	36 x 32 x 63.9	1716300000

### KLBU CO

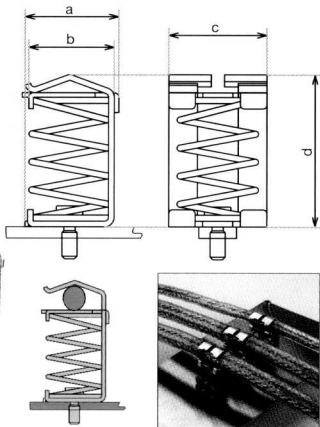
Clamping yokes  
for mounting rails 10 x 3 mm



Type	Cable Diameter	Dimensions (a x b x c x d)	Part No.
KLBU CO 1	3...10	18 x 12 x 13.2 x 32	1753311001
KLBU CO 2	4...15	18 x 20 x 21.1 x 41.6	1752131001
KLBU CO 3	10...20	25 x 23 x 24 x 45	1749151001
KLBU CO 4	15...28	25 x 31 x 32 x 56	1749161001
KLBU CO 5	20...38	32 x 40 x 42.7 x 64.5	1755081001

### KLBU SC

Clamping yokes  
for direct mounting

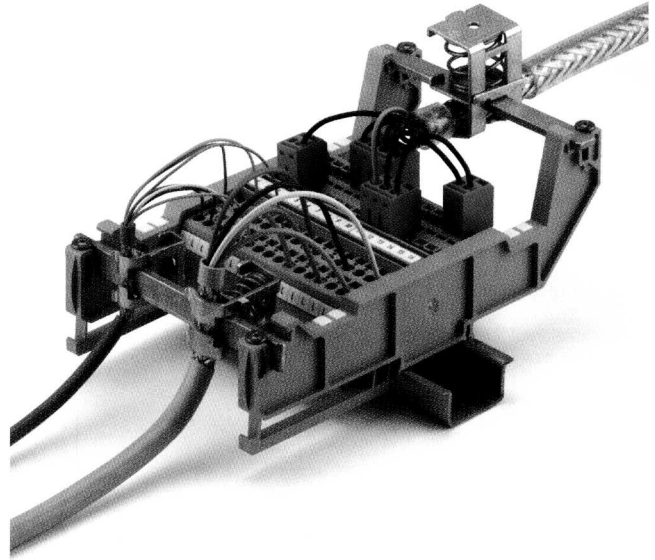


KLBU 3...8 SC KLBU 10...20 SC

Type	Cable Diameter	Dimensions (a x b x c x d)	Part No.
KLBU 3-8 SC	3...8	13.5 x 11.5 x 18 x 26	1692261001
KLBU 4-13.5 SC	4...13.5	20 x 17.8 x 20.3 x 31.4	1712311001
KLBU 10-20 SC	10...20	24.8 x 23 x 26 x 40	1712321001
KLBU 15-32 SC	15...32	36 x 33.3 x 32 x 64	1718341001
ACTUATOR TOOL*			1742630000

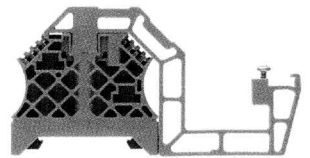
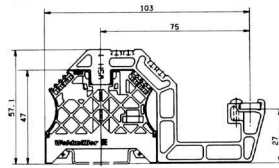
For KLBU SC Variant only

## Insulated Assembly on TS 35

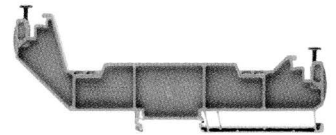
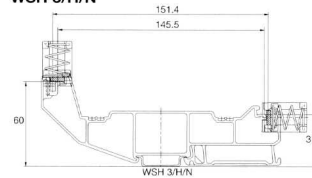


### WSH Support blocks

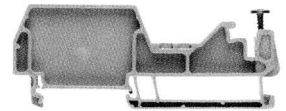
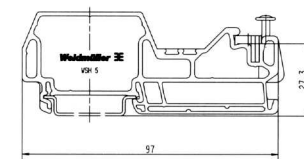
WSH 1 support block for KLBU 4...13.5  
or KLBU 10...20, width: 8 mm



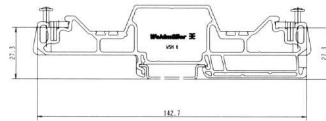
### WSH 3/H/N



### WSH 5



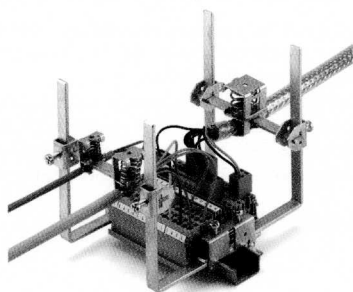
### WSH 6



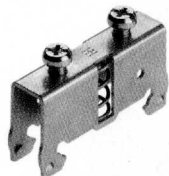
For assembly of KLBU on mounting rail

Type	Part No.
WSH 1 (mounting rail assembly)	1068700000
WSH 3/H/N	1715970000
WSH 5	1080100000
WSH 6	1080200000

## Conducted Assembly on TS 35



### Support blocks



BS 35/WSH 2

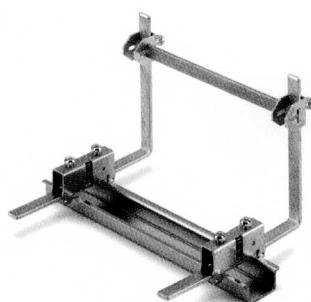


BFEH 1/WSH

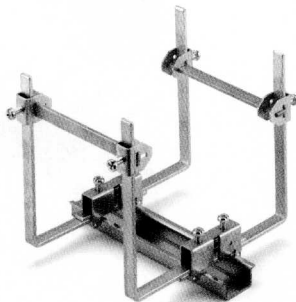


SMSE WSH U1 MT

### Assembly example:



a) with one current bar



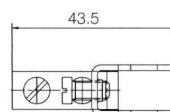
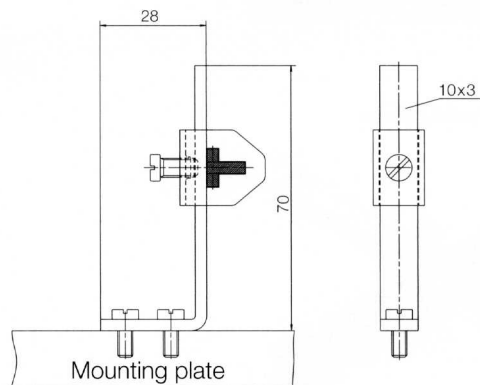
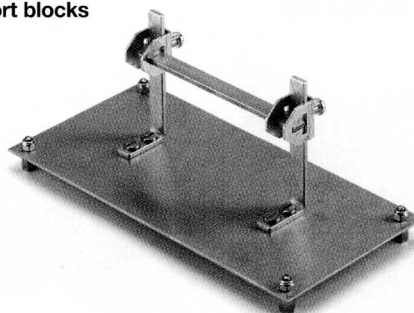
b) with two current bars

Type	Dimensions (L x W x H)	Part No.
BS 35/WSH 2	52 x 37 x 13	1760720000
SMSE WSH U1 MT	20 x 31 x 13.5	1083900000
BFEH 1/WSH	134 x 134 x 10	1082400000

Set consists of: (packet loose in a foil bag)		Part No.
<b>WSH 18 MT</b>	BS 35/WSH 2	1 Pc. 1083100000
	SMSE WSH U1 MT	2 Pc.
	BFEH 1/WSH	2 Pc.
<b>WSH 19 MT</b>	BS 35/WSH 2	1 Pc. 1083200000
	SMSE WSH U1 MT	1 Pc.
	BFEH 1/WSH	1 Pc.
<b>WSH 20 MT</b>	BS 35/WSH 2	1 Pc. 1752950000
	SMSE WSH U1 MT (straight current bar)	1 Pc.
	BFEH 1/WSH	1 Pc.

## Direct Mounting

### Support blocks

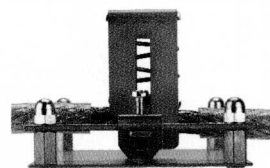


WSH 4 MT

### Set consists of: (packet loose in a foil bag)

Type	Part No.
WSH 4 MT	BFWI WSH 4 MT 1 Pc. 1079900000
	BFEH 1/WSH 1 Pc.

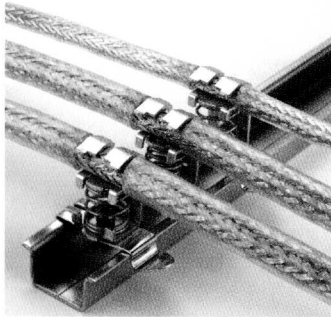
### Spacers



Type	Length (mm)	Part No.
SP 15 double set	15	3896100000
SP 20 double set	20	3896200000
SP 30 double set	30	3896300000

## Assembly on TS 35

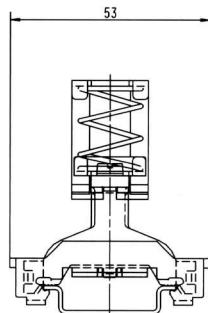
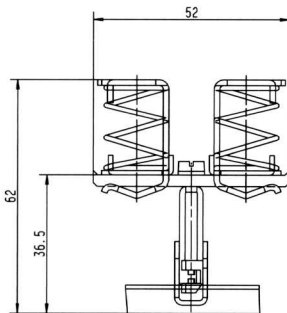
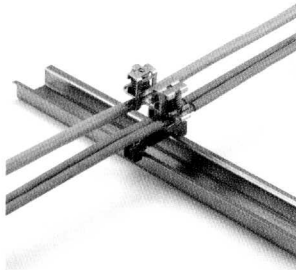
### Clamping yokes on FM 4 foot



Type  
FM 4

Part No.  
068790000

### Clamping yoke holder



### Type

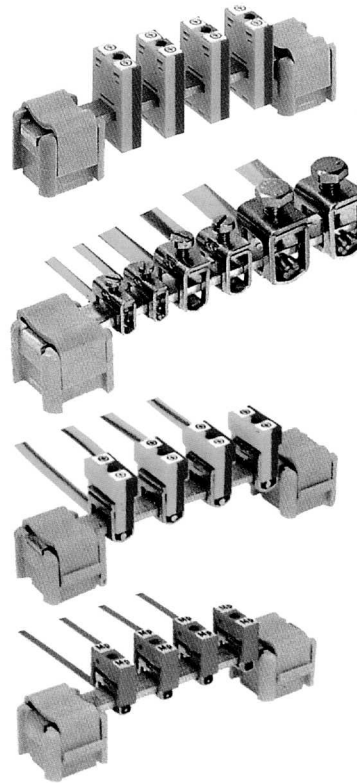
Type	Part No.
BS 35 II without KLBU	172380000
BS 35 II / KLBU 3-8	172381000
BS 35 II / KLBU 4-13.5	172382000
BS 35 II / KLBU 3-8/2x2-6	174943000

## Clamping Yoke

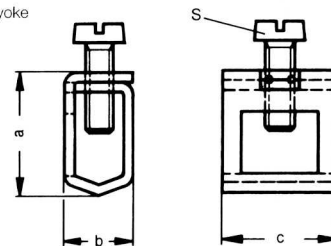
In order to connect N or ground conductors at a central location, it is advantageous to use the ZB clamping yoke together with the 10x3 busbars. The clamping yokes can be moved on the busbar and, therefore, adapted to the installation wiring.

For use as protective ground connectors, clamping yokes are available with green/yellow insulation hoods. These hoods emphasize the function of the ground conductor and, with the aid of marking tags, enable the respective ground conductors to be clearly arranged. If the clamping yokes are used to connect neutral conductors, they can be marked with blue insulation hoods.

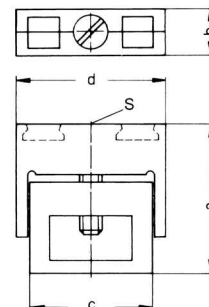
The ZBE 6 can also be retrofitted.



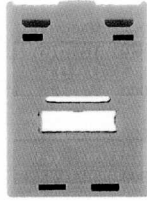
Dimensions for Clamping yoke



Dimensions for Clamping yoke with insulation hood



**ZB 4 G**



Stripping length: 18 mm

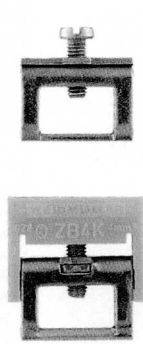
Version	Part No.
With blue hood	0322180000
With green/yellow hood	0322160000
With black hood	0322110000

**Connection cross-section**

2.5...6 mm<sup>2</sup>, solid

Dimensions	a	b	c	d	S
Type	Without hoods				
ZB 4 G	27	1.4	19.5	19.51	M 3x8

**ZB 4  
ZB 4 K**



For busbars  
10x3                      6x6

Version	Part No.	Part No.
Without hood	0316500000	0556700000
With blue hood	0475380000	0565480000
With green/yellow hood	0475360000	0565460000
With black hood	0475310000	

Individual insulation hoods

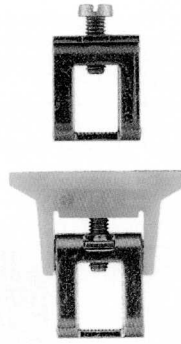
Blue	0475480000	0565380000
Green/yellow	0475460000	

**Connection cross-section**

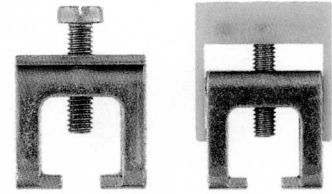
0.5...4 mm<sup>2</sup>, solid

Dimensions	a	b	c	d	S
Type	Without hoods				
ZB 4	11.7	5.3	15.5	-	M 3x8
ZB 4/6	15.0	5.5	12.0	-	M 3x8
With hoods					
ZB 4 K	20.0	6.0	15.5	19.0	M 3x8
ZB 4/6 K	23.0	6.0	12.0	25.0	M 3x8

**ZB 4/6  
ZB 4/6 K**



**ZBE 6  
ZBE 6 K**



For busbars  
10x3

Version	Part No.
Without hood	0459500000
With blue hood	0525980000
With green/yellow hood	0525960000

Individual insulation hoods

Blue	0526080000
Green/yellow	0526060000

**Connection cross-section**

2.5...6 mm<sup>2</sup>, solid

Dimensions	a	b	c	d	S
Type	Without hoods				
ZBE 6	19.5	8.0	19.0	-	M 4x16
With hoods					
ZBE 6 K	29.5	7.8	19.0	22.5	M 4x16

**ZB 10**



For busbars  
10x3 and 10x5

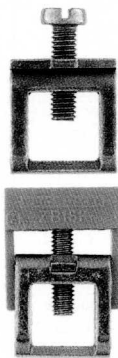
Version	Part No.
Without hood	1261300000

**Connection cross-section**

1.5...10 mm<sup>2</sup>, solid / 2.5...10 mm<sup>2</sup>, stranded

Dimensions	a	b	c	d	S
Type	Screw				
ZB 10	19.5	8	19	-	M 4x16

**ZB 16  
ZB 16 K**



For busbars  
10x3                      6x6

Version	Part No.	Part No.
Without hood	0316600000	0556800000
With blue hood	0502880000	0569680000
With green/yellow hood	0502860000	0569660000

Individual insulation hoods

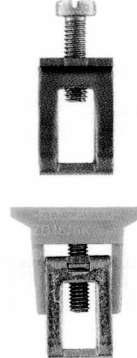
Blue	0502980000	0565580000
Green/yellow	0502960000	0565560000

**Connection cross-section**

2.5...16 mm<sup>2</sup>, solid

Dimensions	a	b	c	d	S
Type	Without hoods				
ZB 16	16.5	10.0	15.5	-	M 4x12
ZB 16/6	19.0	9.5	12.0	-	M 4x14
With hoods					
ZB 16 K	28.0	10.0	15.5	19.0	
ZB 16/6 K	31.0	9.0	12.0	25.0	

**ZB 16/6  
ZB 16/6 K**



**ZB 35**



For busbars  
10x3

Version	Part No.
Without hood	0266500000
With blue hood	0502680000
With green/yellow hood	0502660000

Individual insulation hoods

Blue	0502780000
Green/yellow	0502760000

**Connection cross-section**

16...35 mm<sup>2</sup>, solid

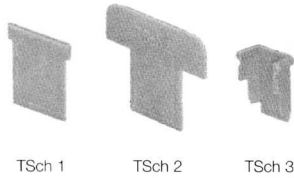
Dimensions	a	b	c	d	S
Type	Without hoods				
ZB 35	21.0	14.0	18.0	-	M 6x15
With hoods					
ZB 35 K	31.5	14.0	18.0	32.0	M 6x15

\*Note: Go to page 201 for busbars

## Small Partitions

### TSch

Small partitions can be subsequently inserted between jumpers or sockets in terminal blocks with a maximum terminal width of 12 mm.



TSch 1 TSch 2 TSch 3



TSch 4 TSch 6

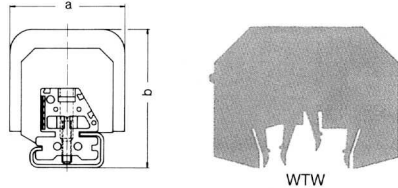
Type	Part No.
<b>TSch 1</b>	<b>0319160000</b>
For use between fixed cross-connections of differing potential in Type SAK 2.5 - SAK 16 and DK 4 terminal blocks	
<b>TSch 2</b>	<b>0353660000</b>
For use between detachable cross-connections (switchable cross-connection links) of differing potential in Type SAK 4 - 16 terminal blocks and Type SAKT and WDL 6/1 disconnect terminals	
<b>TSch 3</b>	<b>0366860000</b>
For use in Type SAKD 2.5 N terminal blocks	
<b>TSch 4</b>	<b>0363360000</b>
For Type AKZ 4, AKB 4, AK 4, DK 4, DKB 4/10 and DK 4/380 Q terminal blocks	
<b>TSch 6</b>	<b>0190260000</b>
For Type DK 4 S, DK 4, DK 4 Q/35, DK 4 55/35, DKIS 4 and DKIT 4 terminal blocks	

## Partitions

### WTW/TW

Depending on the operating voltage, a partition must be inserted between adjacent jumpered groups. This is necessary in order to maintain the required creepage and clearance paths.

Partitions made of tropical weather-resistant hard paper (Type HP 020628) are available for some types of terminals. Partitions made of hard paper Type 020610 are available on request.



Dimensional data (mm)  
a b

Part No.	Material	Thickness	TS 32	TS 35	For terminal type	
<b>Assembly on TS 35/TS 32</b>						
<b>1058800000</b>	Wemid	3	80	63	63	W-Series/EExi SAK 2.5 - 16/EExi
<b>0302830000</b>	KrS	2.5	50	59.5	50	SAK 2.5
<b>0302860000</b>	PA	1.5	50	59.5	50	SAK 2.5/35 SAK 2.5
<b>0130120000</b>	KrG	2.5	50	59.5	52	SAK 4/35, 6/35 SAK 4, 6 N, 10
<b>0130160000</b>	PA	1.5	50	59.5	52	SAK 4, 6, 10 SAK 4, 6 N, 10
<b>0281120000</b>	KrG	3	60	65.5	-	SAK 16/35 SAK 16
<b>0303660000</b>	PA	15	58	67	60.5	SAK 16/35 SAK 16
<b>0304320000</b>	KrG	3	74	75.5	68	SAK 35/35, 35 N/35 SAK 35, 35 N
<b>0304360000</b>	PA	1.5	74	75.5	68	SAK 35/35, 35 N/35 SAK 35, 35 N
<b>0242920000</b>	KrG	3	75	58.5	54.5	SAKT 1/35 SAKB 10, C 10 SAKT 1
<b>0242960000</b>	PA	1.5	75	58.5	54.5	SAKT 1/35 SAKB 10, C 10 SAKT 1
<b>0191860000</b>	PA	1.5	42.5	49	44	SAKD 2.5/35 SAKD 2.5 N
<b>0257120000</b>	KrG	3	80	-	70	EEx i, SAK 2.5 - 16
<b>1050100000</b>	Wemid	1.5	56	-	56.9	WDU 2.5-10
<b>Partitions made of hard paper, TW-HP</b>						
<b>0297100000</b>	HP T*	1	50	-	54.5	SAK 2.5
<b>0197100000</b>	HP	0.5	40	-	57.5	SAK 4, SAK 6 N, SAK 6, S 10, AST 3, AST 4
<b>0151400000</b>	HP	2	120	-	75.6	SAKG 28
<b>0164600000</b>	HP T*	2	120	-	75.5	SAKG 32 II, SAKG 70
<b>0177100000</b>	HP	2	160	-	90.5	SAKG 32
<b>0179900000</b>	HP T*	2	160	-	90.5	SAKG 40, 46, 54 I + III
<b>Assembly on TS 15</b>						
<b>3185600000</b>	PA	1.5	32.5	34	-	AKZ 2.5, 2.5 K
<b>3185800000</b>	PA blue	1.5	32.5	34	-	AKZ 2.5, 2.5 K
<b>1189300000</b>	KrS	2	38	38	-	AKZ 4, AKB 4

## End Plates

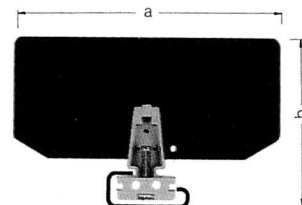
### WAP/AP

With few exceptions, the last terminal in a row must be covered with a Type AP end plate.

End plates must also be inserted in terminal strips with different sized terminals. The external dimensions of the end plates correspond to the outer dimensions of the respective terminal. The end plate is fixed by an end link.

Type	Part No.	Use with
<b>WAP WDU 1.5 WEMID</b>	<b>1060000000</b>	WDU 1.5
<b>WAP 2.5 - 10 WEMID</b>	<b>1050000000</b>	WDU 2.5 - 10
<b>WAP 16 - 35 WEMID</b>	<b>1050100000</b>	WDU 16 - 35
<b>WAP WDL 2.5/S WEMID</b>	<b>1067700000</b>	WDL 2.5/S
<b>WAP WDL WEMID</b>	<b>1067800000</b>	WDL 25
<b>WAP WTL WEMID</b>	<b>1068300000</b>	WTL 6/1/WTD 6/1
<b>WAP WDK WEMID</b>	<b>1059100000</b>	WDK
<b>AP</b>	<b>0150960000</b>	SAKD 2.5 N
<b>AP 2.5</b>	KrG <b>0279520000</b>	SAK 2.5 and TT
	PA <b>0279560000</b>	KB 2.5/10, SAK 2.5/35, SAK 2.5 L and LL
<b>AP 4,6,10</b>	KrG <b>0117920000</b>	SAK 4, 6, 6 N, SAKC 4, NT 2, SLK 1, SAK 4 S and SS
	PA <b>0117960000</b>	SAK 4, 6 N, 10, KB 4, 6 and 10, SAK 4/35, 6/35, 10/35
<b>AP 16</b>	KrG <b>0271120000</b>	SAK 16
	PA <b>0271160000</b>	SAK 16 and 16/35
<b>AP 35</b>	KrG <b>0303620000</b>	SAK 35
	PA <b>0303660000</b>	SAK 35, 35 N, SAK 35/35
<b>AP 70</b>	KrG <b>0340920000</b>	SAK 70
<b>AP 95</b>	KrG <b>0550920000</b>	SAK 95, SAK 95/35
<b>AP 2.5 L</b>	KrG <b>0309220000</b>	SAK 2.5 L
<b>AP</b>	PA <b>0359260000</b>	DK 4, DKB 4/10
<b>AP</b>	PA <b>0438560000</b>	DK 4/380 Q
<b>AP</b>	KrG <b>0266420000</b>	AST 1, 5 and 5 T
<b>AP</b>	PA <b>0483460000</b>	TOP 4
<b>AP</b>	KrG <b>0294420000</b>	AKZ 4
<b>AP</b>	PA <b>0294460000</b>	AKZ 4 S and SS, AKZ 4, AKZ 4 L and LL, AKZ 4 T
<b>AP</b>	KrG <b>0146720000</b>	SAKT 1, SAKC 10, SAKR 10, SAKS 7
<b>AP</b>	KrG <b>0329120000</b>	SAKT 2
<b>AP</b>	PA <b>0211360000</b>	SAKR 1, SAKR-L, SAKR-D
<b>AP</b>	KrG <b>0134220000</b>	SAKA 10
<b>AP</b>	KrG <b>0191320000</b>	SAKS 1 and 3, SAKS 1/35
<b>AP</b>	PA <b>0340560000</b>	AKZ 1.5, AKZ 1.5 T
<b>AP</b>	KrS <b>0131730000</b>	SAKH 6

### EP End plates for SAKG



Dimensional data (mm)

Part No.	Material	Thick.	a	b	For terminal type
<b>Assembly on TS 32</b>					
<b>0205100000</b>	HP	2	120	75.5	SAKG 28, 32 II, 70
<b>0205200000</b>	HP T*	2	120	75.5	
<b>0205300000</b>	HP	2	160	90.5	SAKG 32 I + III,
<b>0205400000</b>	HP T*	2	160	90.5	40, 46, 54
<b>Assembly on TS 35</b>					
<b>0180500000</b>	HP	2	120	75.5	SAKG 32 II, 70
<b>0180600000</b>	HP T*	2	120	75.5	
<b>0180700000</b>	HP	2	160	90.5	SAKG 32 I + III,
<b>0180800000</b>	HP T*	2	160	90.5	40, 46, 54

\*HP T = tropical weather-resistant

# Covers

Several safety regulations, such as the **Accident prevention regulation "Electrical installations and equipment" (VBG 4)** and VDE 0106, Part 100/3.83, require that the live elements in electrical equipment be protected against direct contact.

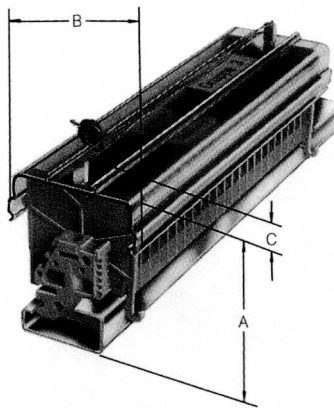
For terminal blocks, this protection must be provided by additional covering if jumpers or test sockets are used. For this purpose, Weidmüller offers cover profiles with matching holding plates which can be used with the major terminal sizes.

The holding plates can be attached to the end or along the length of the terminal strip.

They can be attached to TS 32, TS 35 or TS 15 mounting rails.

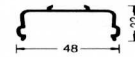
Longitudinal spacing of the holding plates: The longitudinal spacing of ADP 1, 2 and 3 between the holding plates should not significantly exceed approximately 500 mm.

The cover profile is snapped onto lateral ridges. Additional fixing is provided by pins on the holding plates which also permit the attachment of a seal. Cover profile ADP 3 can be snapped directly onto terminal Type SAK 95. The transparent design of the profiles makes the terminals, their accessories and markings visible at all times. Additional designations, e.g. group marking, can be attached.

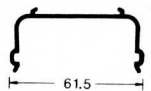


## ADP Cover Profiles

Material: rigid PVC,  
**transparent**  
Delivery form: 1 m piece



Type ADP 1,  
Part No. 0485200000



Type ADP 2,  
Part No. 0485300000



Type ADP 3,  
Part No. 0485400000

Material: rigid PVC, **gray**  
Delivery form: 1 m piece  
Max. limit temp.: 70 °C



Type ADP 4,  
Part No. 1430760000  
(1000 mm)

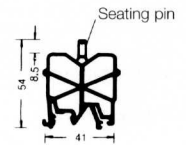


Type TSK 31.5,  
Part No. 0347960000

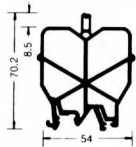
## HP Holding Plates

Material: PA 66

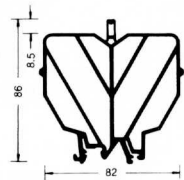
Assembly on TS 35 and TS 32



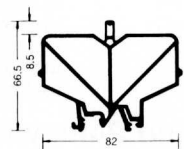
Type HP 1,  
Part No. 0485560000



Type HP 2,  
Part No. 0485660000

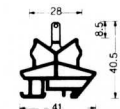


Type HP 3,  
Part No. 0485760000



Type HP 4,  
Part No. 0485860000

Assembly on TS 15



Type HP 7,  
Part No. 0258260000



Type HP 8,  
Part No. 0258360000

Thickness of holding plates  
HP 1 to HP 8: 2 mm

Allocation to terminal types	ADP		HP	
	Cover profiles	Part No.	Holding plates	Part No.
SAKD 2.5 N, EK 2.5 N, SAK 2.5; SAK 2.5/35	ADP 1	0485200000	HP 1	0485560000
SAK 4, EK 2.5/35, SAK 4/35, EK 4, DK 4, SAK 6, EK 4/35, SAK 6 N, EK 6/35, SAK 6/35, EK 10, SAK 10, EK 10/35, SAK 10/35, SAKR, WDU 2.5 -10, SAKR-D, WDE 2.5 - 10, WTR	ADP 2	0485300000	HP 2	0485660000
SAK 16, EK 16, SAK 16/35, EK 35, SAK 35, SAKC 4, SAK 35/35, SAKC 10, SAK 70, SAKS 1, SAK 70/35, SAKS 2, WDU 16 - 35, SAKS 3, WPE 16 - 36, SAKS 4, SAKS 5	ADP 3	0485400000	HP 3	0485760000
SAK 95	ADP 3	0485400000		
ASK 1, SAKA 10, SAKT 1, SAKB 10, SAKT 2, AST	ADP 3	0485400000	HP 4	0485860000
	ADP 4	1430760000		
AKZ 4, AK 4	ADP 1	0485200000	HP 8	0258360000
AKZ 4*, AK 4*	ADP 4	1430760000		
	ADP 4	1378160000		
AKZ 1.5, AKZ 2.5	TSK 31.5	0347960000	HP 7	0258260000

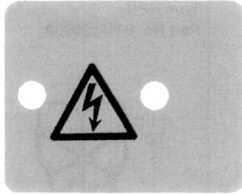
External dimensions	A				B		C		
	For assembly on mounting rails								
	TS 32	TS 35x7.5	TS 35x15	TS 15					
ADP 1, HP 1	61	56	63		49	6			
ADP 2, HP 2	77	72	79		62.5	6			
ADP 3, HP 3	94	89	86		92	6			
ADP 3, HP 4	73.5	68.5	75.5		92	6			
ADP 1, HP 8					45	49	6		
TSK 31.5, HP 7					35	31	6		
<b>Marking material</b>								<b>Part No.</b>	
Tag cards with "lightning" voltage symbol, self-adhesive								<b>0566700000</b>	
20 per card									

\*For PA 66 versions only

## Covers AD/WAD

Several VDE regulations require that, in addition to having the IP 20 type of protection, line terminals must also be covered. For this purpose, Weidmüller provides a range of cover plates printed with a warning arrow and the international warning symbol. A warning arrow with the words "Danger Voltage" is printed on the reverse side. The cover plates are affixed to the terminals with Type BSK plastic screws. The cover plates are designed to cover 3 and 4-pole terminal assemblies.

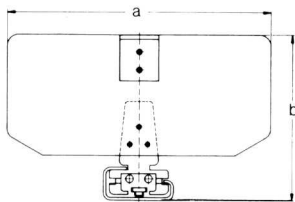
Material: AD = PVC BSK = PA 66



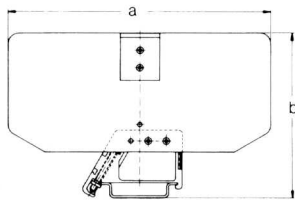
Terminal Type	Width AD 3 mm	3-pole	Screw	Part No.
SAK 2.5	6	0297900000	M 3 x 22	0128900000
AKZ 4	6	0297900000	M 2.5 x 18	0303300000
DK 4	6	0297600000	M 2.5 x 18	0303300000
SAK 4	6.5	0297600000	M 3 x 22	0128900000
SAK 6 N	8	0297700000	M 3 x 22	0128900000
SAK 6	10	0178500000	M 3 x 22	0128900000
SAK 10	10	0178500000	M 3 x 22	0128900000
SAK 16	12	0297800000	M 3 x 22	0128900000
SAK 35	18	0273400000	M 4 x 32	0129100000
SAK 35 N	16	-	M 4 x 32	0129100000

Type	mm	AD 4 4-pole	Screw	Part No.
SAK 2.5	6	0303400000	M 3 x 22	0128900000
Sealed screw			M 3 x 20	0451300000
AKZ 4	6	0303400000	M 2.5 x 18	0303300000
DK 4	6	0303400000	M 2.5 x 18	0303300000
SAK 4	6.5	0285300000	M 3 x 22	0128900000
SAK 6	10	0178600000	M 3 x 22	0128900000
SAK 10	10	0178600000	M 3 x 22	0128900000
SAK 16	12	0518200000	M 3 x 22	0128900000
SAK 35	18	0178700000	M 4 x 32	0129100000
SAK 35 N	16	0576700000	M 4 x 32	0129100000

## End Plate with Fitting Bracket



Type	Dim. a	Dim. b	Part No.
EP 1 for SAKG 28 and SAKG 70	120	75.5	0271800000
EP 2 for SAKG 32, 40, 46 and 54	160	90.5	0271900000



Type	Dim. a	Dim. b	Part No.
EP 2/35 for SAKG 32, 40, 46 and 54	160	91.5	0182000000

## TBS 2 BST 2

### Covers for the SAK-Series

#### Design

- Covering bare jumpers of SAK 2.5 – SAK 16
- Labeling of functional groups
- Simple assembly by inserting the new small partitions in the existing partition cut-out in the terminal
- Engagement of marking strips in new small partitions
- Marking of the sturdy marking strip with a felt pen for smudge-resistant labeling and with pencil for temporary, erasable marking.



#### Materials

Type  
TBS 2 made of polyamide  
BST 2 made of plasticiser-free PVC

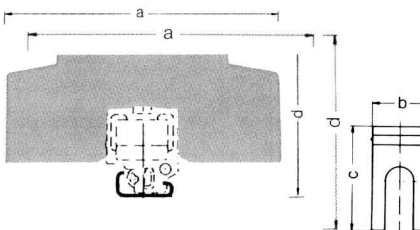
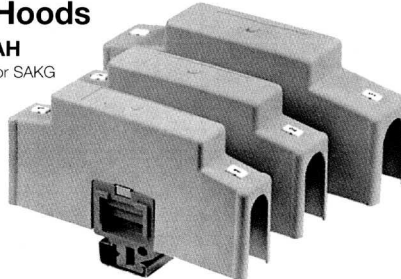
#### Ordering data

Type	Part No.
Small partition TBS	1287860000
Marking strip BST (300 mm long)	1287700000
Marking pen STI	0508401694

## Hoods

### AH

for SAKG



For terminals of open design, such as Type SAKG, covers are replaced by hoods which offer the required shock protection (VBG 4).

Hoods are simply fitted on the terminals. See the table below for ordering data and dimensions.

Dimensional data						
Type	a	b	c	d	Part No.	
For SAKG 28	AH 28	156	26	74	94	0326660000
For SAKG 32/70	AH 32	156	30	74	94	0326760000
For SAKG 40	AH 40	186	38	78	98	0326860000
For SAKG 46	AH 46	196	46	78	92	0326960000

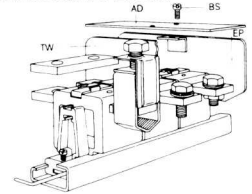
## Cover Plates

### AD

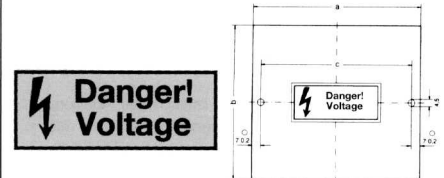
for SAKG

Mounting can be carried out with two end plates or with one end plate and one partition with fitting bracket.

### Cover Plates with Adhesive Label



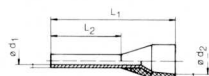
### Dimensions for Cover Plates



	Type	a	b	c	Part No.
For SAKG 28	AD 3	89	120	74	-
For SAKG 32 and 70	AD 3	101	120	86	-
For SAKG 40	AD 4	164	160	149	0263200000

# Ferrules

## Ferrules, insulated



Nominal Wire size (mm <sup>2</sup> )	AWG	Dimensions (mm)				Quantity (in package)	Type	Standard		DIN		Miscellaneous	
		L1	L2	d1	d2**			Color	Part No.	Color	Part No.	Color	Part No.
0.25	24	10	6	0.8	1.8	500	H 0.25/10	Light Blue	9025740000			Yellow	9021010000
0.25	24	12	8	0.8	1.8	500	H 0.25/12	Light Blue	9025760000			Yellow	9021020000
0.34	22	10	6	0.8	2	500	H 0.34/10	Turquoise	9025750000				
0.34	22	12	8	0.8	2	500	H 0.34/12	Turquoise	9025770000				
0.5	20	12	6	1	2.6	500	H 0.5/12	Orange	0409500000	White	9019000000		
0.5	20	14	8	1	2.6/2.9*	500	H 0.5/14	Orange	0690700000	White	9019010000	Orange	9004560000*
0.5	20	16	10	1	2.6	500	H 0.5/16	Orange	9025870000	White	9019020000		
0.75	18	12	6	1.2	2.8	500	H 0.75/12	White	0409600000	Gray	9019030000	Light Blue	9021030000
0.75	18	14	8	1.2	2.8	500	H 0.75/14	White	0462900000	Gray	9019040000	Light Blue	9021040000
0.75	18	16	10	1.2	2.8	500	H 0.75/16	White	9025860000	Gray	9019050000	Light Blue	9021050000
0.75	18	18	12	1.2	2.8	500	H 0.75/18	White	9025910000	Gray	9019060000	Light Blue	9021060000
1	18	12	6	1.4	3	500	H 1/12	Yellow	0409700000	Red	9019070000		
1	18	14	8	1.4	3/3.5*	500	H 1/14	Yellow	0463000000	Red	9019080000	Yellow	9025970000*
1	18	16	10	1.4	3	500	H 1/16	Yellow	9025950000	Red	9019100000		
1	18	18	12	1.4	3	500	H 1/18	Yellow	9025930000	Red	9019110000		
1.5	16	14	8	1.7	3.5/3.9*	500	H 1.5/14	Red	0463100000	Black	9019120000	Red	9025980000*
1.5	16	16	10	1.7	3.5	500	H 1.5/16	Red	0635100000	Black	9019130000		
1.5	16	24	18	1.7	3.5	500	H 1.5/24	Red	0565600000	Black	9019150000		
2.5	14	14	8	2.2	4.2	500	H 2.5/14	Blue	9019160000	Blue	9019160000	Gray	9021070000
2.5	14	18	12	2.2	4.2	500	H 2.5/18	Blue	9019170000	Blue	9019170000	Gray	9021080000
2.5	14	24	18	2.2	4.2	500	H 2.5/24	Blue	9019180000	Blue	9019180000	Gray	9021090000
4	12	17	10	2.8	4.8	500	H 4/17	Gray	9019190000	Gray	9019190000	Orange	9021100000
4	12	20	12	2.8	4.8	500	H 4/20	Gray	9019200000	Gray	9019200000	Orange	9021110000
4	12	26	18	2.8	4.8	500	H 4/26	Gray	9019210000	Gray	9019210000	Orange	9021120000†
6	10	20	12	3.5	6.3	100	H 6/20	Black	0533500000	Yellow	9019220000	Green	9021130000
6	10	26	18	3.5	6.3	100	H 6/26	Black	0565700000	Yellow	9019230000	Green	9021140000
10	8	22	12	4.5	7.6	100	H 10/22	Ivory	0534200000	Red	9019240000	Brown	9021150000
10	8	28	18	4.5	7.6	100	H 10/28	Ivory	0565800000	Red	9019250000	Brown	9021160000
16	6	24	12	5.8	8.8	100	H 16/24	Green	0565900000	Blue	9019260000	White	9021170000
16	6	28	18	5.8	8.8	100	H 16/28	Green	0566000000	Blue	9019270000	White	9021180000
25	4	30	16	7.3	11.2	50	H 25/30	Brown	0317000000	Yellow	9019280000	Black	9021190000
25	4	36	22	7.3	11.2	50	H 25/36	Brown	0317100000	Yellow	9019300000	Black	9021200000
35	2	30	16	8.3	12.7	50	H 35/30	Beige	0317200000	Red	9019310000		
35	2	39	25	8.3	12.7	50	H 35/39	Beige	0317300000	Red	9019330000		
50	1, 1/0	36	20	10.3	15	50	H 50/36	Olive	0444200000	Blue	9019340000		

\*larger D2 dim. for thicker insulated wire

\*\*± 0.2 mm tolerance

†package of 10



### Dual Wire Ferrules

Equal Wire size AWG††	2 Wires Per Ferrule AWG	Dimensions (mm)				Qty. in Package	Type	Standard		DIN		Miscellaneous	
		L1	L2	d1	A/B			Color	Part No.	Color	Part No.	Color	Part No.
18	20	14.6	8.2	1.4	5/3	500	H 0.5/15	Orange	9004440000	White	9004780000		
16	18	14.6	8.2	1.7	5.5/3	500	H 0.75/15	White	9018510000	Gray	9018520000	Light Blue	9018570000
16	18	16.4	10	1.7	5.5/3	500	H 0.75/17			Gray	9004770000		
16	18	15.8	8.2	2.3	6.5/3.6	500	H 1.0/15	Yellow	9018530000	Red	9018540000		
16	18	19.6	12	2.3	6.5/3.6	500	H 1.0/20			Red	9004760000		
14	16	15.8	8.2	2.3	6.5/3.6	500	H 1.5/16	Red	9004410000	Black	9004420000		
14	16	19.6	12	2.3	6.5/3.6	500	H 1.5/20			Black	9004750000		
12	14	18.5	10	2.9	8/4.5	250	H 2.5/18.5	Blue	9004430000*	Blue	9004430000*	Gray	9018580000
12	14	20.5	12	2.9	8/4.5	250	H 2.5/20.5	Blue	9004740000*	Blue	9004740000*		
10	12	22	12	3.5	9/5.2	100	H 4/22	Gray	9004730000**	Gray	9004730000**	Orange	9018590000***

Recommended length L2 = insulation stripping length + 2 mm.

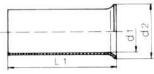
††With tension clamp, equal wire size increases by one wire size due to irregularities in the shape of the ferrule.

\*5x50 strip

\*\*5x20 strip

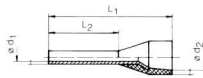
\*\*\*package of 250

Ferrules, uninsulated



Wire size (mm <sup>2</sup> )	AWG	Dimensions (mm)			Quantity (in package)	Type	Part No.
		L 1	d 1	d 2			
0.25	24	5	0.7	1.65	1000	H 0.25/5	9018910000
0.5	20	6	1	2.1	1000	H 0.5/6	0282600000
0.5	20	10	1	2.1	1000	H 0.5/10	9004050000
0.75	18	6	1.2	2.3	1000	H 0.75/6	0282700000
0.75	18	10	1.2	2.3	1000	H 0.75/10	0542500000
1	18	6	1.4	2.5	1000	H 1/6	0372600000
1	18	10	1.4	2.5	1000	H 1/10	0282800000
1.5	16	7	1.7	2.8	1000	H 1.5/7	0372700000
1.5	16	10	1.7	2.8	1000	H 1.5/10	0186500000
1.5	16	12	1.7	2.8	1000	H 1.5/12	9004060000
1.5	16	18	1.7	2.8	1000	H 1.5/18	9004070000
2.5	14	7	2.2	3.4	1000	H 2.5/7	0373000000
2.5	14	10	2.2	3.4	1000	H 2.5/10	9004080000
2.5	14	12	2.2	3.4	1000	H 2.5/12	0186100000
2.5	14	18	2.2	3.4	1000	H 2.5/18	9004090000
4	12	9	2.8	4	500	H 4/9	0373100000
4	12	12	2.8	4	1000	H 4/12	0244100000
4	12	15	2.8	4	1000	H 4/15	9004100000
4	12	18	2.8	4	1000	H 4/18	9004110000
6	10	10	3.5	4.7	500	H 6/10	9004120000
6	10	12	3.5	4.7	500	H 6/12	0191900000
6	10	15	2.8	4	500	H 6/15	0124700000
6	10	18	2.8	4	500	H 6/18	9004130000
10	8	12	4.5	5.8	500	H 10/12	0282900000
10	8	15	4.5	5.8	500	H 10/15	0124800000
10	8	18	4.5	5.8	500	H 10/18	0379300000
16	6	12	5.8	7.5	500	H 16/12	0492500000
16	6	15	5.8	7.5	500	H 16/15	0124300000
16	6	18	5.8	7.5	100	H 16/18	0375200000
16	6	25	5.8	7.5	100	H 16/25	9004150000
16	6	32	5.8	7.5	100	H 16/32	9004160000
25	4	15	7.3	9.5	250	H 25/15	0124400000
25	4	18	7.3	9.5	100	H 25/18	0375300000
25	4	25	7.3	9.5	100	H 25/25	9004170000
25	4	32	7.3	9.5	100	H 25/32	9004180000
35	2	18	8.3	11	100	H 35/18	0368900000
35	2	25	8.3	11	100	H 35/25	9004190000
35	2	30	8.3	11	500	H 35/30 S	9451000000
35	2	32	8.3	11	100	H 35/32	9004200000
50	1,1/0	18	10.3	13	100	H 50/18	9004210000
50	1,1/0	25	10.3	13	100	H 50/25	9025880000
50	1,1/0	32	10.3	13	100	H 50/32	9004220000

Ferrules, insulated  
For use with stripax plus  
(part no. 9020000000)



Wire size (mm <sup>2</sup> )	AWG	Dimensions (mm)			A/B	Quantity	Type	Standard		DIN		Miscellaneous	
		L 1	L 2	d 1				Color	Part No.	Color	Part No.	Color	Part No.
0.5	20	15	8	1	2.6	500*	H 0.5/14	Orange	9004270000	White	9004280000	White	9004280000
0.75	18	15	8	1.2	2.7	500*	H 0.75/14	White	9004290000	Gray	9004300000	Light Blue	9004310000
1	18	15	8	1.4	3	500*	H 1.0/14	Yellow	9004320000	Red	9004330000	Red	9004330000
1.5	16	15	8	1.7	3.2	500*	H 1.5/14	Red	9004340000	Black	9004350000	Black	9004350000
2.5	14	15	8	2.2	4	500*	H 2.5/14			Blue	9004360000	Gray	9004370000

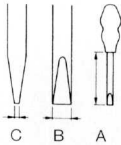
\*10 strips of 50 each

Ferrules Cross-section in mm <sup>2</sup>	with insulating collar		without insulating collar		WDU 2.5	WDU 4	WDU 6	WDU 10	WDU 16	WDU 35
	Type	Part No.	Type	Part No.						
0.5	H 0.5/14	0690700000	H 0.5	0282600000	●	●				
0.75	H 0.75/14	0462900000	H 0.75	0542500000	●	●	●			
1.0	H 1.0/14	0463000000	H 1.0	0282800000	●	●	●			
1.5	H 1.5/14	0463100000	H 1.5	0186500000	●	●	●			
2.5	H 2.5/14	1333100000	H 2.5	0186100000	●*	●	●	●		
4.0	H 4.0/17	0463300000	H 4.0	0244100000		●	●	●		
6.0	H 6.0/20	0533500000	H 6.0	0191900000			●	●	●	
10.0	H 10/22	0534200000	H 10	0282900000				●	●	●
16.0	H 16/24	0565900000							●	●
25.0	H 25/30	0317000000								●
35.0	H 35/30	0317200000								●

\* for ZDU 2.5 DIN AEH H 2.5/18 D Part No. 9019170000

# Screwdrivers

## Dimensions



### SD

Screwdrivers with plane-parallel bit for slotted screws

**DIN 5261**

#### Ordering Data

Dimensions (mm)	A	B	C	Part No.
80	3.0	0.5		9008320000
100	3.5	0.6		9008330000
100	4.0	0.8		9008340000
150	5.5	1.0		9008350000
swifty® cable cutting tool				9006020000
100	3.5	0.6		9006060000

#### Set of 6

SD 2.5/3.0/4.0/5.5, PH sizes 1 and 2

9009740000

### SDI

VDE-insulated screwdrivers

**IEC 78 (GO) 11/VDE 0680, Part 201/07, and IEC 900**

#### Ordering Data

Dimensions (mm)	A	B	C	Part No.
75	2.5	0.4		9008370000
100	3.0	0.5		9008380000
100	3.5	0.6		9008390000
100	4.0	0.8		9008400000
125	5.5	1.0		9008410000
150	6.5	1.2		9008420000
200	8.0	1.6		9008430000

#### Set of 6

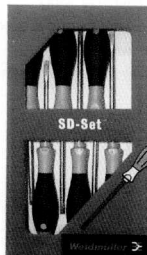
SDI 3.0/4.0/5.5/6.5, PH sizes 1 and 2

9009730000

#### 6-piece set

Slot-head and cross head PH screwdriver set with round blades

(see individual screwdrivers for a technical description)



#### Ordering Data

Type	Size	Dimensions (mm)			Part No.
		A	B	C	
SD		0.4	2.5	75	
SD		0.5	3.0	80	
SD		0.8	4.0	100	
SD		1.0	5.5	125	
SD PH	1			80	
SD PH	2			100	
Set SDS 2.5-5.5/PH 1/2					9009740000

### SDK PH

Cross-recess screwdrivers for Phillips recess screws

**DIN 5262**

#### Ordering Data

Size	Dimension A (mm)	Part No.
0	60	9008470000
1	80	9008480000
2	100	9008490000
3	150	9008500000

#### Set of 6

SD 2.5/3.0/4.0/5.5, PH sizes 1 and 2

9009740000

### SDIK PH

VDE-insulated cross-recess screwdrivers

**IEC 78 (GO) 11/VDE 0680, Part 201/07, and IEC 900**

#### Ordering Data

Size	Dimension A (mm)	Part No.
0	60	9008560000
1	80	9008570000
2	100	9008580000
3	150	9008590000

#### Set of 6

SDI 3.0/4.0/5.5/6.5, PH sizes 1 and 2

9009730000

#### 6-piece set

VDE insulated slot-head and cross head PH screwdriver set

(see individual screwdrivers for a technical description)



#### Ordering Data

Type	Size	Dimensions (mm)			Part No.
		A	B	C	
SDI		0.4	2.5	75	
SDI		0.5	3.0	100	
SDI		0.8	4.0	100	
SDI		1.0	5.5	125	
SDI PH	1			80	
SDI PH	2			100	
Set SDIS 2.5-5.5/PH 1/2					9009730000

### SDIZ

SDIZ screwdrivers are used with terminal blocks with test points (StB)

#### Ordering Data

Dimensions (mm)	A	B	C	Part No.
180	3.5	0.6		9008450000
190	4.0	0.8		9008460000

### SDP

Cross-recess screwdrivers for Pozidrive/ Supadrive screws

**SO 8764, DIN 5262**

#### Ordering Data

Size	Dimension A (mm)	Part No.
0	60	9008520000
1	80	9008530000
2	100	9008540000
3	150	9008550000

### IS

Hexagon socket keys

**DIN 6911**



#### Ordering Data

Type	Part No.
Key, 4 mm	0485100000
For Type SAK 35 and WDU 35 terminal blocks	
Key, 6 mm	0407900000
For Type SAK 70 and WDU 70/95 terminal blocks	
Key, 8 mm	0235000000
For Type SAK 95 and WDU 120/150 terminal blocks	

### Clamp Tools ZBW

ZBW clamp tools are used to open one or more tension clamp blocks. The ZBW is straight. The ZBW W is angled. Blocks must be spaced at 5 mm when using multiple tined tools.



Type	No. of Tines	Part No.
ZBW 1	1	1669620000
ZBW 2	2	1650670000
ZBW 3	3	1650680000
ZBW 4	4	1650690000
ZBW 6	6	1650700000
ZBW W	1	1669630000

## Stripping Tools



### mini-stripax®

Stripping and cutting in the range of cross-sections from 0.08...1 mm<sup>2</sup> (#28...18 AWG)

- Flexible and solid conductors with PVC insulation
- Multiple-wire cables (in the case of thin ribbon cables, even several cables at once)
- Fatigue-free operation due to smooth-running mechanism and ergonomic design
- Self-adjusting stripping blades over the entire stripping range
- Clamping jaws open automatically after stripping
- No splaying of individual wires
- Special stripping blades prevent damage to conductors
- Cable cutter is free of play and self-adjusting
- Stripping length adjustable with an end stop
- Patented

#### Technical Data

Length	135 mm
Weight	110 g

#### Ordering Data

Type	Part No.
mini-stripax	9001280000
Spare stripping blade	9001290000



### stripax® 16

Stripping and cutting tool for flexible, stranded and solid conductors with PVC insulation for cross-sections 6...16 mm<sup>2</sup> (AWG 10...6)

- Stripping length adjustable by setting wire stop
- Jaws open automatically after stripping
- No splitting or fanning of individual conductor strands
- Adjustable to different insulation thicknesses
- Strips double-insulated conductors in two steps; No additional adjustment necessary
- Precise, self-adjusting cable-cutter
- Long working life
- Improved ergonomic design

#### Technical data

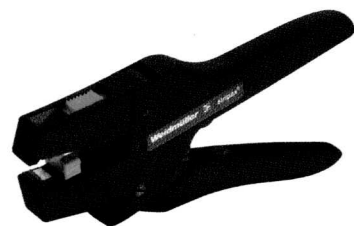
Length	190 mm
Weight	155 g

#### Ordering data

Type	Part No.
stripax® 16	9005610000

#### Accessories

Blade set	9054080000
Cleaning brush	9005450000



### stripax®

Stripping and cutting tool for flexible, stranded and solid conductors with PVC insulation for cross-sections 0.08...6 mm<sup>2</sup> (AWG 28...10)

- Stripping length adjustable by setting wire stop
- Jaws open automatically after stripping
- No splitting or fanning of individual conductor strands
- 32 self-adjusting stripping blades precisely cut the insulator without damage to the conductor
- Adjustable to different insulation thicknesses
- Strips multiple conductors, even several flat ribbon conductors, simultaneously
- Strips double-insulated conductors in two steps; No additional adjustment necessary
- Precise, self-adjusting cable-cutter
- Long working life
- Improved ergonomic design

#### Technical data

Length	190 mm
Weight	155 g

#### Ordering data

Type	Part No.
stripax®	9005000000

#### Accessories

Blade set	9054030000
Cleaning brush	9005450000

## Cutting, Stripping and Crimping Tool



### stripax® plus

Stripping and cutting of 0.08...1 mm<sup>2</sup> (AWG 28...16) cross-sections, crimping of ferrules from 0.5...2.5 mm<sup>2</sup>

- Efficient method: using only one tool to work with cables saves a considerable amount of time
- Simple handling of ferrules:
  - Contained in tool in strip form
  - Automatic feed
- Crimping of ferrules corresponds to EN 50027 and DIN 46228
- Tool processes ferrule strips to DIN 46228
- Stripping blades self-adjusting over entire stripping range
- Clamping jaws unlock automatically after stripping
- Stripping length adjustable with an end stop
- Release facility for incorrect operation
- Not for use with teflon insulation

#### Technical Data

Length	210 mm
Weight	260 g

#### Ordering Data

Type	Part No.
stripax plus	9020000000

#### Wire cutting blade

Wire cutting blade	9019970000
--------------------	------------

Ferrules, see pages 211-212.

## Crimping Tools



### PZ 1.5



### PZ 3

### PZ 1.5 PZ 3

Crimping of ferrules with and without plastic collars, from Weidmüller and other well-known manufacturers, in the range of 0.25...1.5 mm<sup>2</sup> (#28...16 AWG) for PZ 1.5 and .50...6 mm<sup>2</sup> (#18...10 AWG) for PZ 3 and in accordance with DIN 46228

- Only one die for the entire range of cross-sections
- Crimps according to European Standard EN 50027
- Small, handy, designed according to ergonomic aspects
- Low manual effort and fatigue-free operation due to innovative lever arrangement
- Locking device for perfect crimping
- Release facility for possible incorrect operation
- Ferrule feed from the front
- Long service life due to metal parts made of hardened special steel
- Patented

#### Technical Data

Length	170 mm
Weight	170 g

#### Ordering Data

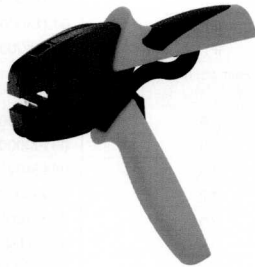
Type	Part No.
PZ 1.5	9005990000
PZ 3	0567300000

# Crimping Tools

## Crimping tools for ferrules

	PZ 1.5	stripax plus 2.5	PZ 3	PZ 4	PZ 6 roto	PZ 6/5	PZ 16	PZ 50
Part No.	9005990000	9020000000	0567300000	9012500000	9014350000	9011460000	9012600000	9006450000
AEH mm <sup>2</sup>								
H 0.25	●				●	●		
H 0.34	●				●	●		
H 0.5	●	● <sup>1</sup>	●	●	●	●		
H 0.75	●	● <sup>1</sup>	●	●	●	●		
H 1.0	●	● <sup>1</sup>	●	●	●	●		
H 1.5	●	● <sup>1</sup>	●	●	●	●		
H 2.5		● <sup>1</sup>	●	●	●	●		
H 4.0			●	●	●	●		
H 6.0			●		●	●	●	
H 10.0							●	
H 16.0							●	
H 25.0								●
H 35.0								●
H 50.0								●

●<sup>1</sup> = for strip ferrules.



### PZ 4

Crimping of ferrules with and without plastic collars, from Weidmüller and other well-known manufacturers, in the range of 0.5...4 mm<sup>2</sup> (#20...12 AWG) and in accordance with DIN 46228

- Only one die for the entire range of cross-sections
- Low manual effort due to optimum leverage
- Fatigue-free operation due to ergonomic handle design
- Locking device for perfect crimping
- Release facility for possible incorrect operation
- Ferrule feed from the side
- Long service life due to metal parts made of hardened steel
- Patented

#### Technical Data

Length	200 mm
Weight	430 g

#### Ordering Data

Type	Part No.
PZ 4	9012500000



### PZ 16 S

Crimping tool for ferrules according to DIN 46228 parts 1 and 4 with and without plastic collars from 6...16 mm<sup>2</sup> (AWG 10...6)

- Ratchet for precise crimping
- Ratchet release option in case of incorrect operation
- Ferrule insertion from the side
- Three crimping profiles for rated conductor cross-sections
- Crimp conforms to EN 60947-1
- VG 95211 approval (Military designation: VG 95236 T 14 A 002)

#### Technical Data

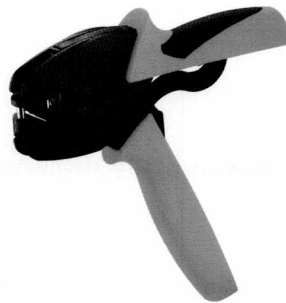
Length	200 mm
Weight	380 g

#### Ordering Data

Type	Part No.
PZ 16 S	9012600000



### PZ 6/5



### PZ 6 Roto

### PZ 6/5 PZ 6 Roto

Crimping of ferrules with and without plastic collars, from Weidmüller and other well-known manufacturers, in the range of 0.25...6 mm<sup>2</sup> (#24...10 AWG) and in accordance with DIN 46228

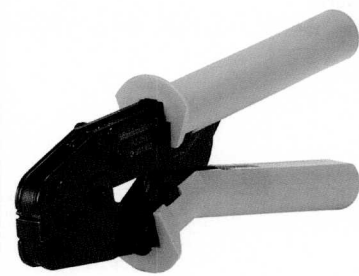
- Crimps according to European Standard EN 50027
- Five crimping points corresponding to the conductor cross-sections
- Ferrule feed from the side
- Fatigue-free operation due to ergonomic handle design
- Long service life due to metal parts made of hardened steel
- Locking device for perfect crimping
- Release facility for possible incorrect operation

#### Technical Data

Length	200 mm
Weight	380 g

#### Ordering Data

Type	Part No.
PZ 6/5	9011460000
PZ 6 Roto	9014350000



new

### PZ 16 ZH

Crimping tool for twin ferrules (requirement similar to DIN 46228 T.4) with plastic collars from 6.0...16 mm<sup>2</sup> (#10...6 AWG).

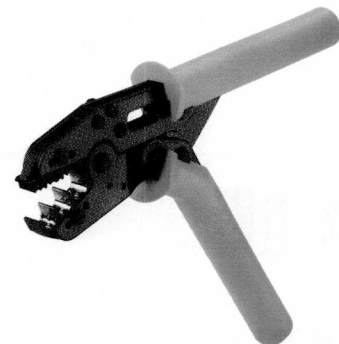
- Three crimping profiles for rated conductor cross-sections
- Crimp conforms to EN 60947-1

#### Technical Data

Length	260 mm
Weight	700 g

#### Ordering Data

Type	Part No.
PZ ZH 16	9013600000



### PZ 50

Crimping tool for ferrules from 25, 35 and 50 mm<sup>2</sup> with and without plastic collars according to DIN 46228 parts 1 and 4 (~ AWG 3...1)

- Ratchet for precise crimping
- Ratchet release option in case of incorrect operation
- Ferrule insertion from the side
- Three crimping profiles for rated conductor cross-sections
- Crimp conforms to EN 60947-1
- VG 95211 approval (Military designation: VG 95236 T 14 B 002)

#### Technical Data

Length	260 mm
Weight	700 g

#### Ordering Data

Type	Part No.
PZ 50	9006450000

# Fuse Cartridges and Gauge Rings for Weidmüller Fuse Terminals

## Fuse Inserts For Terminal Type

SAKS 1  
SAKS 7  
ASK 1  
WSI 6  
ZSI 2.5



Size (mm)

G fuse inserts 5 x 20 without indicator to DIN 41660, IEC 127, Part 1

Rated voltage (VAC)

250

Rated current (A)

0.1 (F)  
0.2 (F)  
0.25 (F)  
0.5 (F)  
0.63 (F)  
1.0 (F)  
1.6 (F)  
2.0 (F)  
2.5 (F)  
3.15 (F)  
4.0 (F)  
5.0 (F)  
6.3 (F)

Part No.

0430300000  
0430400000  
0430500000  
0430600000  
0439000000  
0430700000  
0430800000  
0430900000  
0431000000  
0431100000  
0431200000  
0431300000  
0431400000

(F) = Fast-acting

SAKS 1  
SAKS 7  
ASK 1  
WSI 6  
ZSI 2.5



G fuse inserts 5 x 25 with indicator to DIN 41576\*

5x25 with indicator\*  
Breaking capacity 80 A  
at 250 V, 50 Hz, cos φ = 1

250

0.25 (M)  
0.5 (M)  
0.8 (M)  
1 (M)  
10 (M)†  
2 (F)  
4 (F)  
6.3 (F)

0546900000  
0510300000  
0646400000  
0265800000  
0193100000  
0192700000  
0192800000  
0192900000

(M) = Medium time lag

(F) = Fast-acting

SAKS 3\*\*  
SAKS 6  
WSI 6/2  
ZSI 2.5/2



Fuse inserts 11/4" x 1/4" to DEF 63 / size 0 without indicator

33 kA short circuit rating fast speed

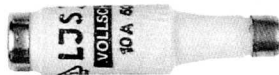
E 0.5 A  
E 1 A  
E 2 A  
E 3 A  
E 5 A  
E 7 A  
E 10 A

440

0.5  
1  
2  
3  
5  
7  
10

0533800000  
0525500000  
0294500000  
0295700000  
0294600000  
0295800000  
0293900000

SAKS 2



D fuse inserts E 16 with indicator to DIN 49360 (Diazed)

E 10 A  
E 16 A  
E 20 A  
E 25 A

500

10  
16  
20  
25

0208500000  
0208600000  
0208700000  
0208800000

SAKS 4††



D fuse inserts E 14, size D 01, and E 18, size D 02, with indicator to DIN 49522 (Neozed)†

E 14/2  
E 14/4  
E 14/6  
E 14/10  
E 14/16

380

2  
4  
6  
10  
16

0137400000  
0137500000  
0328300000  
0328400000  
0328500000

SAKS 5



E 18/20  
E 18/25  
E 18/35  
E 18/50  
E 18/63

380

20  
25  
35  
50  
63

0361300000  
0361400000  
0361500000  
0361600000  
0361700000

Notes: \*The company SIBA supplies 5 x 25 G fuse cartridges also in a shipbuilding version for 450 VAC.

\*\*5 x 30 (500 VAC) fuse cartridge for SAK 3 are available from WICKMANN.

†LINDNER supplies the Neozed fuse cartridges also in a shipbuilding version for 440 VAC.

††Fuse cartridges with the dimensions 1" x 1/4" = 25.4 x 6.35 mm and 1 1/2" x 1/2" = 10.3 x 38.1 mm are not included in our product range.

‡Only for SAKS 1 and SAKS 7.

## Gauge Ring

For Terminal Type

SAKS 4 and 4/35



Gauge ring type

Amp.

Color

Part No.

P 14/2

2

Pink

0138000000

P 14/4

4

Brown

0138100000

P 14/6

6

Green

0328600000

P 14/10

10

Red

0328700000

SAKS 5 and 5/35



P 18/20

20

Blue

0361800000

P 18/25

25

Yellow

0361900000

P 18/35

35

Black

0362000000

P 18/50

50

White

0362100000

SAKS 2 and 2/35



P 16/10

10

Red

0208900000

P 16/16

16

Gray

0209000000

P 16/20

20

Blue

0209100000

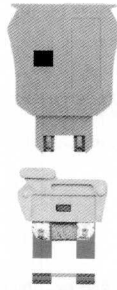
# SIHA fuse holder

The first fuse holder with 5 mm pitch

The SIHA fuse holder turns your disconnect terminal into a fuse terminal within seconds. Just remove the disconnect lever and plug in the fuse connector.

- Even fits onto 5 mm wide terminals side-by-side
- Easy handling – no tools
- Wemid housing (UL 94-VO)
- Easy fuse replacement

## SIHA 1



## SIHA 2



## SIHA 3

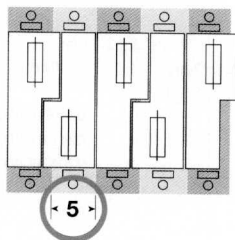


Available Options	Version	Without Blown Fuse Indicator (SIHA 1/G20)		W/ Blown Fuse Indicator-Red LED (SIHA 1/G20/LD)		Without Blown Fuse Indicator (SIHA 2/G20)		W/ Blown Fuse Indicator-Red LED (SIHA 2/G20/LD)		Without Blown Fuse Indicator (SIHA 3/G20)		W/ Blown Fuse Indicator-Red LED (SIHA 3/G20/LD)	
		Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.		
	400 V	9537550000				9537600000				7921560000			
	10 – 36 V			9537560000				9537610000				7921570000	
	35 – 70 V			9537570000				9537620000				7921580000	
	60 – 150 V			9537580000				9537630000				7921590000	
	140 – 250 V			9537590000				9537640000				7921600000	
<b>Dimensions</b>													
Width / Length / Height mm (in.)		Plugged		5.7/33.4/33.8 (0.22/1.32/1.33)		5.7/33.4/33.8 (0.22/1.32/1.33)		5.7/33.4/33.8 (0.22/1.32/1.33)		5.7/33.4/33.8 (0.22/1.32/1.33)		5.7/33.4/33.8 (0.22/1.32/1.33)	
		Plugged with indicator		5.7/40.5/33.8 (0.22/1.59/1.33)		5.7/40.5/33.8 (0.22/1.59/1.33)		5.7/40.5/33.8 (0.22/1.59/1.33)		5.7/40.5/33.8 (0.22/1.59/1.33)		5.7/40.5/33.8 (0.22/1.59/1.33)	
<b>Technical Data</b>													
Material		Wemid		Wemid		Wemid		Wemid		Wemid		Wemid	
Rated voltage / rated current		300 V / 6.3 A		300 V / 6.3 A		300 V / 6.3 A		300 V / 6.3 A		300 V / 6.3 A		300 V / 6.3 A	
Power loss*		1.6 W		1.6 W		1.6 W		1.6 W		1.6 W		1.6 W	
Leakage current		.56 – 2.3 mA		.56 – 2.3 mA		.56 – 2.3 mA		.56 – 2.3 mA		.56 – 2.3 mA		.56 – 2.3 mA	
G fuse cartridges		5x20		5x20		5x20		5x20		5x20		5x20	
<b>Accessory</b>		Part No.		Part No.		Part No.		Part No.		Part No.		Part No.	
SIHA/V connector		9537680000		9537680000		9537680000		9537680000		9537680000		9537680000	
<b>Terminal Compatibility</b>													
Type													
WTR		●		●		—		—		—		—	
WDTR		●		●		—		—		—		—	
ZTR...2AN		◐		◐		—		—		—		—	
ZTR...3AN		●		●		—		—		—		—	
ZTR...4AN		—		—		—		—		●		●	
ZDTR		●		●		◐		—		—		—	
ITR		—		—		—		—		●		●	
ZDL†		—		—		◐		◐		—		—	

\*According to DIN VDE 0611-6 at 23°C ambient temperature and 1.5 times rated current interconnection

†For terminals delivered beginning in 2001

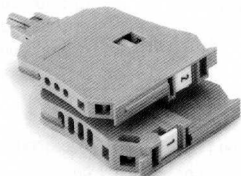
- Fits
- ◐ Only pluggable in upper disconnect level
- ◑ Without cross-connection ZQV
- Does not fit



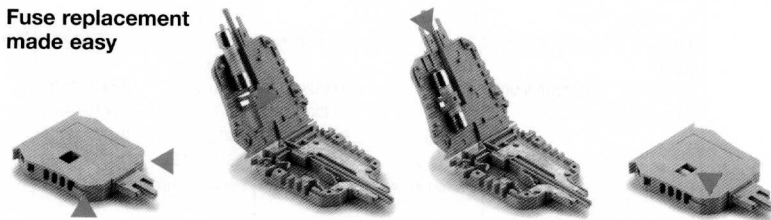
The SIHA fuse holder fits onto 5 mm wide terminals, even with 5x20 G fuse cartridges.

The design does it.

With only two variants, SIHA1 and SIHA2, nearly all isolation terminals from the W-series, Z-series and I-series can be used.



### Fuse replacement made easy

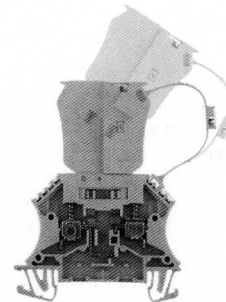


1. Open holder by hand or with screwdriver
2. Push out old fuse
3. Position new fuse
4. Press fuse holder together

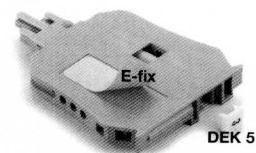
### Misplaced fuse?

The SIHA/V plastic cord can be used to ensure that the fuse holder does not get misplaced when disconnected. (Part No. 9537680000)

- Marker slot on terminal is used to attach the cord
- The cord attachment piece has a marker space, so marking options are not eliminated
- Can be attached either on the left- or right-hand edge of fuse holder



Right-hand attached version shown.



### Two types of markers

- Marker slots for **Dekafix 5** on top
- Labeling space for **E-fix** self-adhesive labels, size 8/20

# Panel Mount Connector Markers

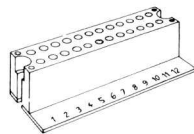
## BST System

Markings for multi-pole terminals.

The marking strips are made of self-extinguishing, cadmium-free PVC.

The marking strips are available printed and unprinted. The printing is optionally visible below or above the multi-pole terminal. The ELS paper marking strip is inserted between the Type KS terminal and the Type D cover.

### BST 10



Thickness: 0.6 mm  
Print height: 3 mm

Type	Part No.
<b>BSTb</b>	

BSTb 10/12	0245700000
Printed 1 to 12 at bottom	

Type	Part No.
<b>BSTb</b>	

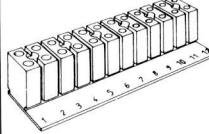
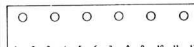
BSTb 10/12	0278500000
Printed 1 to 12 at top	

Type	Part No.
<b>BSTo</b>	

BSTo 10/12	0245600000
Unprinted	

For terminal type  
MK 2/12...

### BST 11



Thickness: 0.6 mm  
Print height: 3 mm

Type	Part No.
<b>BSTb</b>	

BSTb 11/4	0289800000
BSTb 11/6	0290000000
BSTb 11/8	0290200000
BSTb 11/12	0245900000
Printed at bottom	

Type	Part No.
<b>BSTb</b>	

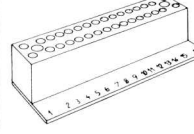
BSTb 11/5	0290900000
BSTb 11/12	0278600000
Printed at top	

Type	Part No.
<b>BSTo</b>	

BSTo 11/4	0289300000
BSTo 11/5	0289400000
BSTo 11/6	0289500000
BSTo 11/8	0284700000
BSTo 11/12	0245800000
Unprinted	

For terminal type  
MK 3/...

### BST 13



Thickness: 0.6 mm  
Print height: 3 mm

Type	Part No.
<b>BSTb</b>	

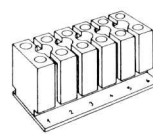
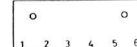
BSTb 13/16	0262200000
Printed at bottom	

Type	Part No.
<b>BSTo</b>	

BSTo 13/16	0262100000
Unprinted	

For terminal type  
MK 4/16...

### BST 17



Thickness: 0.6 mm  
Print height: 4 mm

Type	Part No.
<b>BSTb</b>	

BSTb 17/6	0304600000
Printed at bottom	

### BST 12



Thickness: 0.6 mm  
Print height: 3 mm

Type	Part No.
<b>BSTb</b>	

BSTb 12/4	0248400000
Printed at bottom	

Type	Part No.
<b>BSTo</b>	

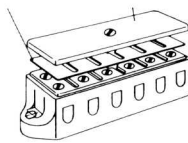
BSTo 12/4	0248300000
Unprinted	

For terminal type  
SLS 2/4...

### ELS



Marking strip Cover



Thickness: 0.6 mm  
Print height: 3 mm

Type	Part No.
<b>ELSb</b>	

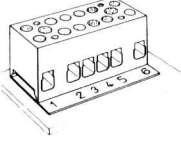
ELSb 2	0143200000
ELSb 4	0143300000
ELSb 6	0143400000
ELSb 10	0143500000
Printed in middle	

Type	Part No.
<b>ELSo</b>	

ELSo 2	0142800000
ELSo 4	0142900000
ELSo 6	0143000000
ELSo 10	0143100000
Unprinted	

For terminal type  
KS...

### BST 9



Thickness: 0.6 mm  
Print height: 3 mm

Type	Part No.
<b>BSTb</b>	

BSTb 9/2	0203600000
BSTb 9/4	0197300000
BSTb 9/6	0197500000
BSTb 9/12	0198800000
Printed at bottom	

Type	Part No.
<b>BSTb</b>	

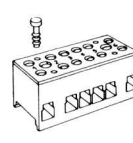
BSTb 9/4	0278100000
BSTb 9/6	0278200000
BSTb 9/12	0278300000
Printed at top	

Type	Part No.
<b>BSTo</b>	

BSTo 9/2	0203500000
BSTo 9/3	0203700000
BSTo 9/4	0197200000
BSTo 9/6	0197400000
BSTo 9/12	0198700000
Unprinted	

SN expansion rivet 0200100000  
For terminal type  
BK...

### BST 28



Thickness: 0.6 mm  
Print height: 3 mm

Type	Part No.
<b>BSTo</b>	

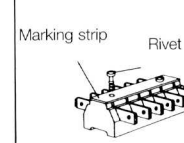
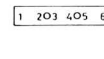
BSTo 28/2	0386300000
BSTo 28/6	0386600000
Unprinted	

Type	Part No.
<b>BSTo</b>	

BSTo 28/2	0386300000
BSTo 28/6	0386600000
Unprinted	

SN expansion rivet 0200100000  
For terminal type  
BK...

### BST 7



Thickness: 0.75 mm  
Print height: 3.5 mm

Type	Part No.
<b>BSTb</b>	

BSTb 7/6	0240900000
BSTb 7/8	0241100000
BSTb 7/12	0209500000
Printed in middle	

Type	Part No.
<b>BSTo</b>	

BSTo 7/6	0240800000
BSTo 7/8	0241000000
BSTo 7/12	0209400000
Unprinted	

SN expansion rivet 0200100000  
For terminal type  
MF...

# Marking Systems

Weidmuller offers three different types of marking systems, depending on customer requirements. One is a pre-printed version while the other two are customer specified.

To select the proper tag, make sure the width of the tag is not greater than the width of the terminal block. For example, DEK 5 is 5 mm wide and is used on SAKD 2.5N terminals, which are also 5 mm wide.

Both horizontal and vertical printing are available. The print on all tags is smear- and oil-resistant.

### Pre-printed Tags (≥3 characters)

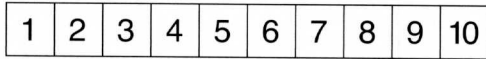
The pre-printed Dekafix marking system is used to mark terminal blocks and assemblies that require standard numerical and alphabetical sequences.

Dekafix is supplied in cards of 50 tags (5 strips of 10 tags each). See pages 220-221 for the pre-printed options.

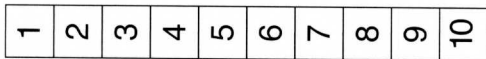
### Custom Print (≤3 characters)

The Multi-Card tags are customer specified tags which can accommodate up to nine characters per tag. A project marking area is also provided to allow a brief description (up to 15 characters) to be placed on each row of tags. The description is used to identify the tags after they are printed for quicker installation.

Tags are also provided in a blank format for those customers who prefer to print by hand.



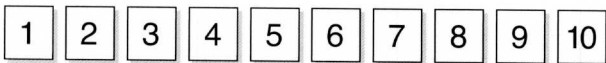
Horizontal print



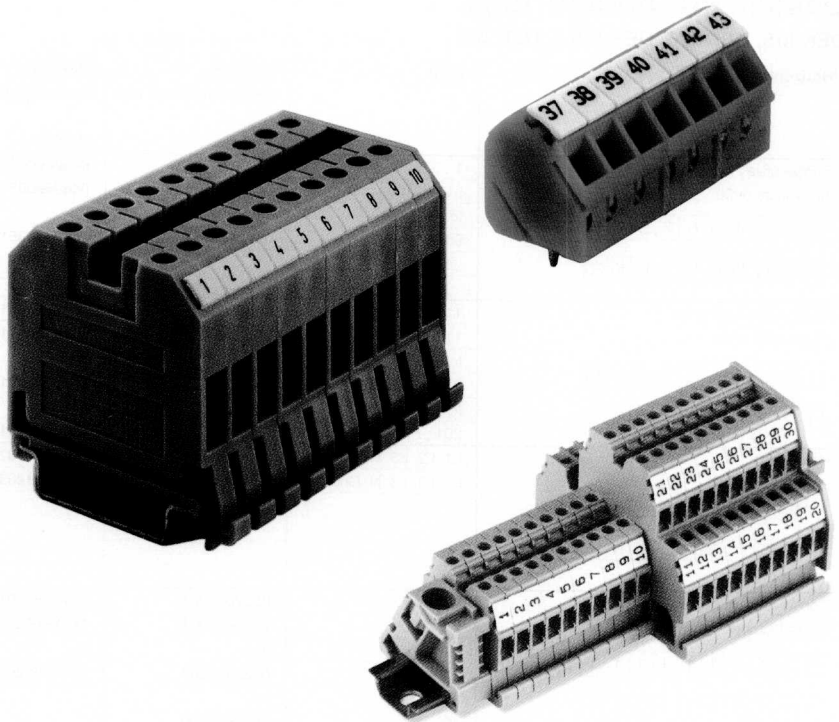
Vertical print



Strip mounting



Individual marker mounting






### Technical Data

Material	Polyamide
Color*	White
Temperature range (constant)	-40°C to +100°C
Fire classification	UL 94 V2
Components	Silicone-free. Halogens below detectable range.
Mounting	Strip mounting or individual mounting depending on the arrangement of the mount
Print	Standard print or according to customer request; print color: black
Smudge resistance	Smudge-resistant to DIN IEC 50

\*Call factory for additional color variations

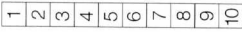
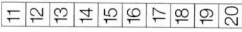
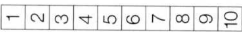
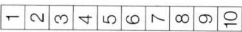





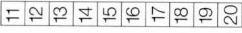
# Dekafix Pre-printed Tags

DEK 5/5, DEK 5/6, DEK 5/6.5, DEK 5/8

Horizontal	Print	DEK 5/5 for terminals ≥ 5 mm	DEK 5/6 for terminals ≥ 6 mm	DEK 5/6.5 for terminals ≥ 6.5 mm	DEK 5/8 for terminals ≥ 8 mm
		Part No.	Part No.	Part No.	Part No.
Consecutive Horizontal increments of 50  1 2 3 4 5 6 7 8 9 10  11 12 13 14 15 16 17 18 19 20	1 ... 50	0473460001	0468660001	0468160001	1653340001
	51 ... 100	0473460051	0468660051	0468160051	1653340051
	to	to	to	to	
	951 ... 999	0473460951	0468660951	0468160951	
Consecutive Horizontal increments of 10  1 2 3 4 5 6 7 8 9 10  1 2 3 4 5 6 7 8 9 10	1 ... 10	0523060001	0518960001	0519060001	
	11 ... 20	0523060011	0518960011	0519060011	
	to	to	to	to	
	91 ... 100	0523060091	0518960091	0519060091	
Horizontal  L1 L2 L3 N PE L1 L2 L3 N PE  L1 L2 L3 N PE L1 L2 L3 N PE	L1, L2, L3, N, PE	0354361187	0631961187	0632161187	
	L1, L2, L3, N, Gnd	0354361203	0631961203	0632161203	
Consecutive Horizontal Single Number  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1	1	0522660001	0526960001		
	2	0522660002	0526960002		
	to	to	to		
	200	0522660200	0526960200		
Horizontal Single Character  A A A A A A A A A A  A A A A A A A A A A	to	to	to		
	400	0522660400			
	A	0522761021			
	B	0522761022			
	C	0522761023			
	D	0522761024			
	E	0522761025			
	F	0522761026			
	G	0522761027			
	H	0522761028			
	I	0522761029			
	J	0522761030			
	K	0522761031			
	L	0522761032			
	M	0522761033			
	N	0522761034			
	O	0522761035			
	P	0522761036			
	Q	0522761037			
	R	0522761038			
S	0522761039				
T	0522761040				
U	0522761041				
V	0522761042				
W	0522761043				
X	0522761044				
Y	0522761045				
Z	0522761046				
Horizontal Single Symbol  + + + + + + + + + +  + + + + + + + + + +	+	0576261198	1318061198		
	-	0576261199	1318061199		
	ground symbol 	0576261202	1318061202		
	ground in circle 	0576261203	1318061203		
Horizontal Single Symbol  L1 L1 L1 L1 L1 L1 L1 L1 L1 L1  L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	AC symbol 	0576261215	1318061215		
	L1	0522361075			
	L2	0522361076			
	L3	0522361077			

# Dekafix Pre-printed Tags

DEK 5/5, DEK 5/6, DEK 5/6.5, DEK 5/8

Vertical	Print	DEK 5/5 for terminals ≥ 5 mm	DEK 5/6 for terminals ≥ 6 mm	DEK 5/6.5 for terminals ≥ 6.5 mm	DEK 5/8 for terminals ≥ 8 mm
		Part No.	Part No.	Part No.	Part No.
Consecutive Vertical increments of 50  	1 ... 50	0473560001	0468760001	0468260001	1653350001
	51 ... 100	0473560051	0468760051	0468260051	1653350051
	to	to	to	to	
	951 ... 999	0473560951	0468760951	0468260951	
Consecutive Vertical increments of 10  	1 ... 10	0460660001	0133360001	0407360001	
	11 ... 20	0460660011	0133360011	0407360011	
	to	to	to	to	
	91 ... 100	0460660091	0133360091	0407360091	
Vertical Single Symbol  	PE	0157261187			
	ground symbol 	0157261202			
	ground in circle 	0157261203			
<b>Blank*</b>					
White	Unprinted	0473360000	0468560000	0468060000	1277060000
<b>Special Print</b>					
Specify print information and print direction		490760000	490360000	490560000	
 Horizontal					
 Vertical					
Specify print information	Horizontal				9111640000
	Vertical				9111650000

\*Colored tags are available in black, brown, red, orange, yellow, green, blue, violet, gray, and white. Contact your local Weidmüller representative for assistance.

Number of characters	Horizontal	Vertical w/2.5 mm characters
DEK 5/5	3	3
DEK 5/6	3	3
DEK 5/6.5	4	3
DEK 5/8	4	3



## Marking Pens (for marking by hand)

Color	Type	Point	Part No.
Black	STI-S	Fine	0508401694
Black	STI-F	Medium	1632480000
Red	STI-S	Fine	0508401686



## MultiCard for Plotter marking

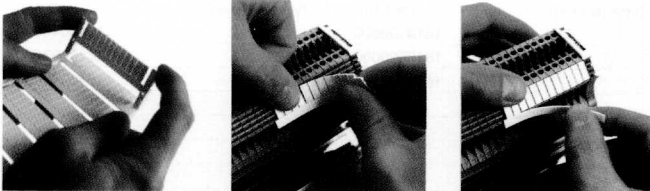


The computer-based marking system MultiCard is the link between the M-Print software and the IP 220 Plotter unit.

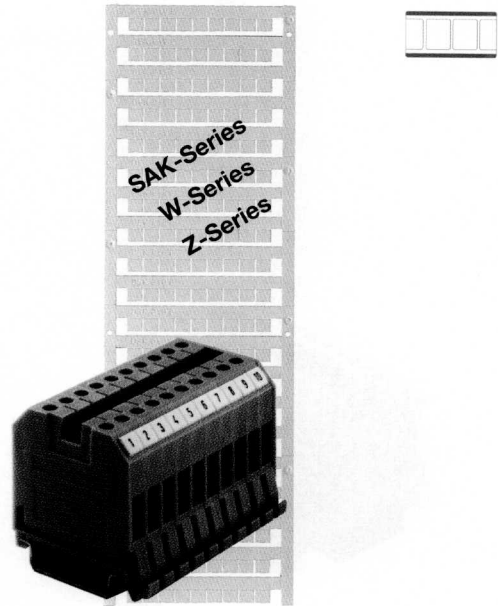
Every MultiCard has the same external dimensions, so that only one plotter frame is required. With more than 50 variants, MultiCard is the marker for Weidmüller terminals, 3rd party terminals, conductors, cables and equipment. At the same time, the distinguishing feature of MultiCard is the excellent quality of both the materials used and the printed results. The project identifier strip can be used for recording project, work area, bundle or individual information. Data can be transferred directly from CAD/CAE systems for printing to the project identifier section.

MultiCard offers the following features:

- Easy sorting facilitates handling
- Optimum fit even on long terminal blocks due to individual labels
- Boxes can be used as filing system
- Only one single frame for all MultiCards
- Tags are easy to remove
- Project description area can be produced on strips
- Insertion is possible with existing marker tools
- Custom marked labels in strips will reduce marking cost



## DEK



### Technical data

Material	Polyamide
Color	White
Temperature range	-40 °C...+100 °C (-40 °F...+212 °F)
Flammability rating	V2 UL 94
Print	Plotter, Laser

### Number of characters

Pen size	0.25	0.35	
Font (Pkt.)	7	7	
Length	5	3	2
Length	6	3	2
Length	6.5	4	3
Length	8	4	4
Carrier system	W-Series, SAK-Series, Z-Series		

Length = pitch width

**DEK** tags in MultiCard format are suitable for short character sequences. Their compact size enables them to be used with all Weidmüller terminals. Using a standard font, it is possible to print 2–3 characters onto each DEK tab.

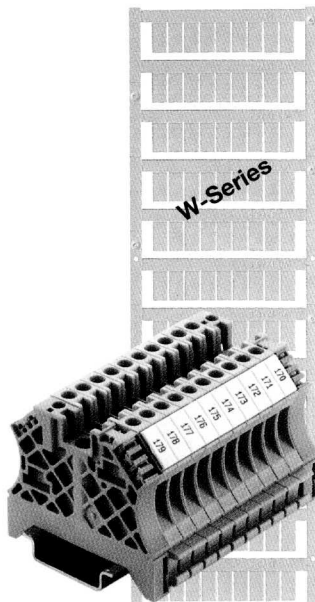
- Single tags can be attached in strips to simplify marking
- Project identifier section assigned to each strip
- Tabs are easily separated

### Ordering data

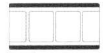
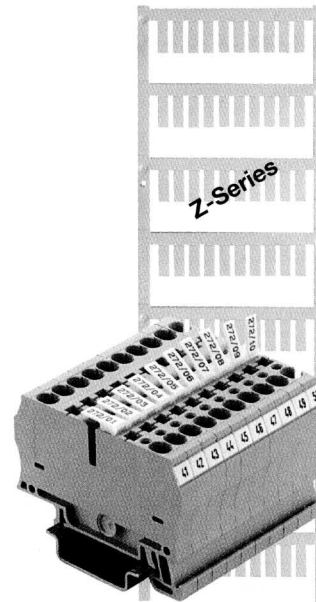
Type (Blank)	Part No.	Type (Custom*)	Part No.
DEK 3.5	1755270000		
DEK 5	1609800000	DEK 5	1609810000
DEK 6	1609820000	DEK 6	1609830000
DEK 6.5	1609840000	DEK 6.5	1609850000

\*Please use custom ordering form page 225 when ordering custom print cards

## WS



## ZS



### Technical data

Material	Polyamide
Color	White
Temperature range	-40°C...+100°C (-40°F...+212°F)
Flammability rating	V2 UL 94
Print	Plotter, Laser

### Number of characters

Pen size	0.25	0.35
Font (Pkt.)	7	7
Length	8	4
Length	10	4
Length	12	5
Length	15	7
Carrier system	W-Series	

**WS** tabs in MultiCard format are suitable for longer character sequences. With increased length, they are designed specifically for use with Weidmüller W-Series terminals. Depending on the length of the tab, it is possible to print 5–9 characters in a standard font onto each one.

- Single tabs can be attached in strips to simplify marking
- Project identifier section assigned to each strip
- Tabs are easily separated

### Ordering data

Type (Blank)	Part No.	Type (Custom†)	Part No.
WS 8/5	1640740000	WS 8/5	1640750000
WS 10/5	1635000000	WS 10/5	1635010000
WS 12/5	1609860000	WS 12/5	1609870000
WS 12/6	1609900000	WS 12/6	1609910000
WS 12/6.5	1609920000	WS 12/6.5	1609930000
WS 15/5	1609880000	WS 15/5	1609890000

†Please use custom ordering form page 226 when ordering custom print cards

### Technical data

Material	Polyamide
Color	White
Temperature range	-40°C...+100°C (-40°F...+212°F)
Flammability rating	V2 UL 94
Print	Plotter, Laser

### Number of characters

Pen size	0.25	0.35
Font (Pkt.)	7	7
Length	10	4
Length	12	5
Length	15	7
Carrier system	W-Series, SAK-Series, Z-Series	

**ZS** tags in MultiCard format, featuring a hinged carrier, are suitable for use with the compact Z-Series terminals. This means that the tags can be folded upwards if required, in order to access the cross-connections. Depending on the length of the tag, it is possible to print 6–9 characters in a standard font onto each one.

- Single tags can be attached in strips to simplify marking
- Project identifier section assigned to each strip
- Tabs are easily separated

### Ordering data

Type (Blank)	Part No.	Type (Custom‡)	Part No.
ZS 10/5	1610000000	ZS 10/5	1610010000
ZS 12/6	1610020000	ZS 12/6	1610030000
ZS 15/5	1646630000	ZS 15/5	1646640000

‡Please use custom ordering form page 227 when ordering custom print cards

# DEK Multi-Card Tags for Terminal Blocks

DEK 5/5, DEK 5/6 & DEK 5/6.5

DEK Multi-Card Custom Print Form

Distributor/Customer: \_\_\_\_\_

P.O. Number: \_\_\_\_\_

Part No.\*: \_\_\_\_\_ (Vertical/Horizontal)  
CIRCLE ONE

Quantity: \_\_\_\_\_ (No. of Cards to print)

\* One Part No. per form.

Ordering Data							
Type	Width	No. of	Tags per	Total Tags	Characters per Tag**		Part No.
Custom	per Tag	Rows	Row	per Card	Vertical	Horizontal	
DEK 5/5	5 mm	20	10	200	3	3	1609810000
DEK 5/6	6 mm	20	10	200	3	3	1609830000
DEK 5/6.5	6.5 mm	20	9	180	3	4	1609850000
<b>Blanks</b>							
DEK 5/5	5 mm	20	10	200	3	3	1609800000
DEK 5/6	6 mm	20	10	200	3	3	1609820000
DEK 5/6.5	6.5 mm	20	9	180	3	4	1609840000

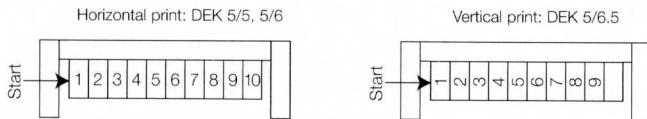
\*\* Character width 2.5 mm

## Work Instructions:

- Select Part No. of corresponding tag type and complete the form above. (Circle "Horizontal" or "Vertical" for print.)

**Tag's width should not exceed the terminal block's thickness.**

- Fill in blank Multi-Card Tag from Start to Finish points. For example:

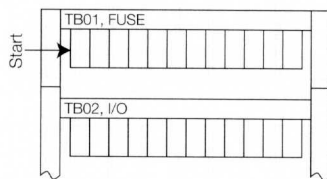


Since DEK 5/5 and 5/6 have 10 tags per row, please fill in 10 tags.

Since DEK 5/6.5 has 9 tags per row, please fill in 9 tags.

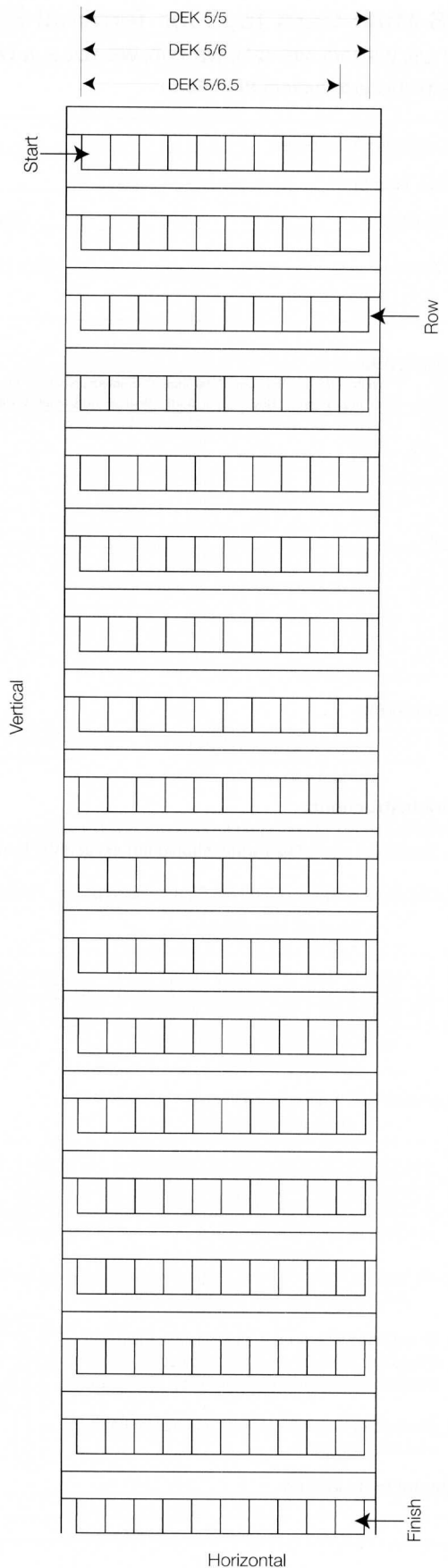
NOTE: Only list up to the maximum number of characters each tag type will accept (Ref. "Characters per Tag").

- Fill out Project Marking Area (Optional):  
Each row of tags has provision for a brief project reference description (15 characters maximum). For example:



- Attach form to purchase order and mail or fax to your local distributor.

**Special Instructions:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



# WS Multi-Card Tags for Terminal Blocks

WS 8/5, WS 10/5, WS 12/5, WS 12/6, WS 12/6.5, & WS 15/5

## WS Multi-Card Custom Print Form

Distributor/Customer: \_\_\_\_\_

P.O. Number: \_\_\_\_\_

Part No.\*: \_\_\_\_\_ (Vertical/Horizontal)  
Circle One

Quantity: \_\_\_\_\_ (No. of Cards to print)

\* One Part No. per form.

### Ordering Data

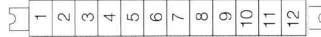
Type	Width	No. of	Tags per	Total Tags	Characters per Line		Lines per Tag		Part No.
					per Tag	Row	per Card	Vertical	
WS 8/5	5 mm	12	12	144	5	3	1	2	1640750000
WS 10/5	5 mm	12	12	144	6	3	1	3	1635010000
WS 12/5	5 mm	12	12	144	7	3	1	3	1609870000
WS 12/6	6 mm	12	10	120	7	3	1	3	1609910000
WS 12/6.5	6.5 mm	12	9	108	7	4	2	3	1609930000
WS 15/5	5 mm	8	12	96	9	3	1	3	1609890000
<b>Blanks</b>									
WS 8/5	5 mm	12	12	144	5	3	1	2	1640740000
WS 10/5	5 mm	12	12	144	6	3	1	3	1635000000
WS 12/5	5 mm	12	12	144	7	3	1	3	1609860000
WS 12/6	6 mm	12	10	120	7	3	1	3	1609900000
WS 12/6.5	6.5 mm	12	9	108	7	4	2	3	1609920000
WS 15/5	5 mm	8	12	96	9	3	1	3	1609880000

\*\* Character width 2.5 mm

### Orientation:



Horizontal print



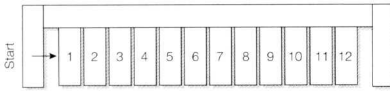
Vertical print

### Work Instructions:

1. Select Part No. of corresponding tag type and complete the form above. (Circle "Horizontal" or "Vertical" for print.) **Tag's width should not exceed the terminal block's thickness.**

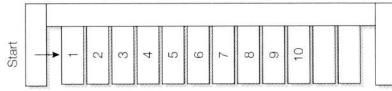
2. Fill in blank Multi-Card Tag from Start to Finish points. For example:

Horizontal Print: WS 8/5



Since WS 8/5 has 12 tags per row, please fill in 12 tags.

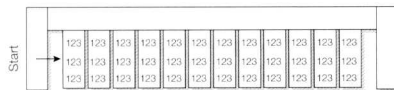
Vertical Print: WS 12/6



Since WS 12/6 has 10 tags per row, please fill in 10 tags.

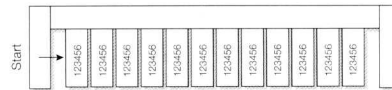
3. Multiple Row Marking (Optional):

Horizontal Print: WS 12/5



Specifications: 3 Lines with maximum  
3 Characters per Line

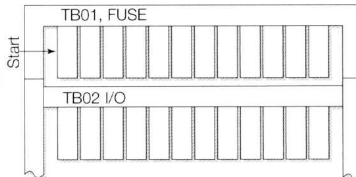
Vertical Print: WS 10/5



Specifications: 1 Line with maximum  
6 Characters per Line

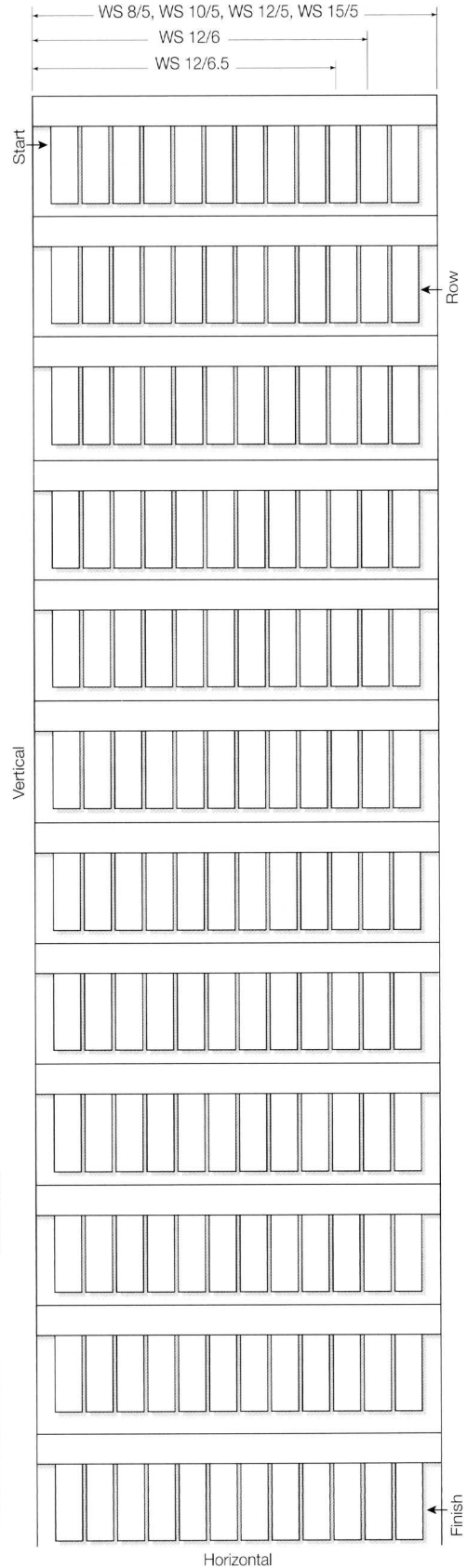
NOTE: Only list up to the maximum number of characters and lines each tag type will accept (Ref. "Lines per Tag" and "Characters per Line").

4. Fill out Project Marking Area (Optional): Each row of tags has provision for a brief project reference description (15 characters maximum). For example:



5. Attach form to purchase order and mail or FAX to your local distributor.

**Special Instructions:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



# ZS Multi-Card Tags for Terminal Blocks

ZS 10/5, ZS 12/6, & ZS 15/5

ZS Multi-Card Custom Print Form

Distributor/Customer: \_\_\_\_\_

P.O. Number: \_\_\_\_\_

Part No.\*: \_\_\_\_\_ (Vertical/Horizontal)  
Circle One

Quantity: \_\_\_\_\_ (No. of Cards to print)

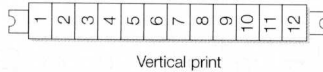
\* One Part No. per form.

### Ordering Data

Type	Width	No. of Rows	Tags per Row	Total Tags per Card	Characters per Line**		Lines per Tag		Part No.
					Vertical	Horizontal	Vertical	Horizontal	
ZS 10/5	5 mm	12	12	144	6	3	1	2	1610010000
ZS 12/6	6 mm	12	12	144	7	3	1	3	1610030000
ZS 15/5	5 mm	12	12	144	9	3	1	3	1646640000
<b>Blanks</b>									
ZS 10/5	5 mm	12	12	144	6	3	1	2	1610000000
ZS 12/6	6 mm	12	12	144	7	3	1	3	1610020000
ZS 15/5	5 mm	12	12	144	9	3	1	3	1646630000

\*\* Character width 2.5 mm

### Orientation:

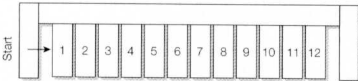


### Work Instructions:

- Select Part No. of corresponding tag type and complete the form above. (Circle "Horizontal" or "Vertical" for print.) **Tag's width should not exceed the terminal block's thickness.**

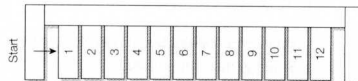
- Fill in blank Multi-Card Tag from Start to Finish points. For example:

Horizontal Print: ZS 10/5



Since ZS 10/5 has 12 tags per row, please fill in 12 tags.

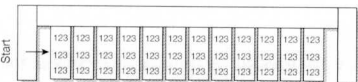
Vertical Print: ZS 12/6



Since ZS 12/6 has 12 tags per row, please fill in 12 tags.

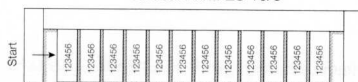
- Multiple Row Marking (Optional):

Horizontal Print: ZS 12/6



Specifications: 3 Lines with maximum 3 Characters per Line

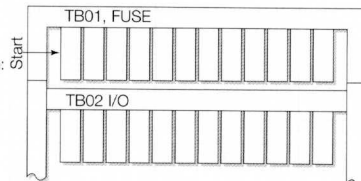
Vertical Print: ZS 10/5



Specifications: 1 Line with maximum 6 Characters per Line

NOTE: Only list up to the maximum number of characters and lines each tag type will accept (Ref. "Lines per Tag" and "Characters per Line").

- Fill out Project Marking Area (Optional): Each row of tags has provision for a brief project reference description (15 characters maximum). For example:

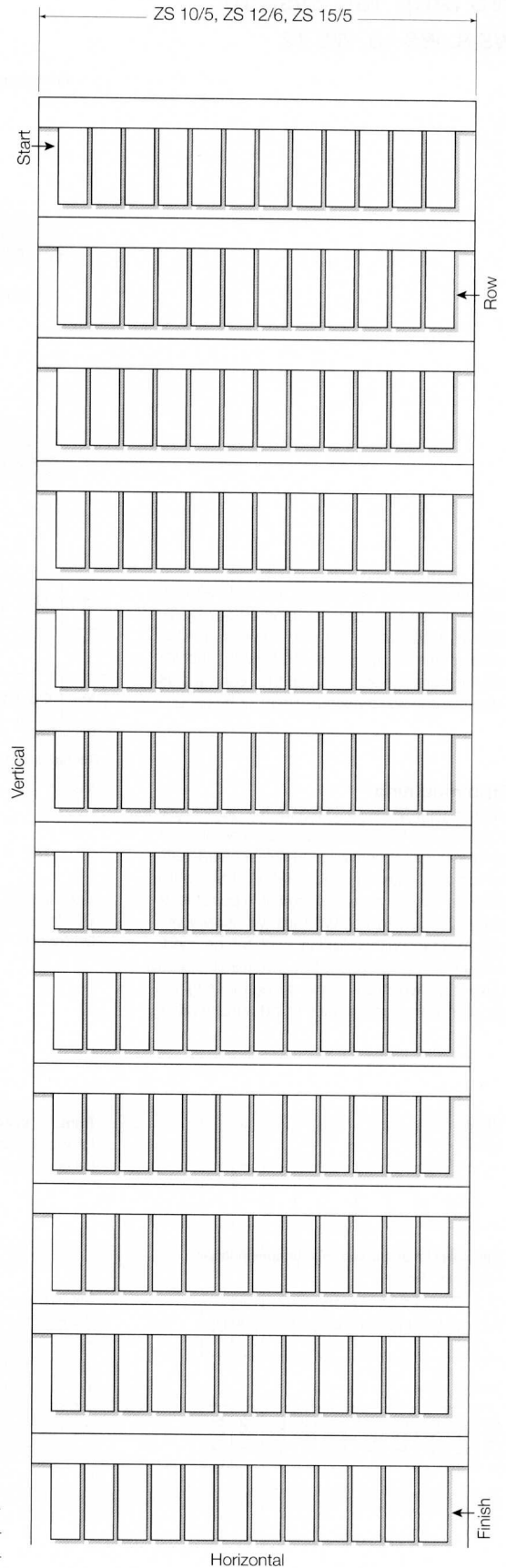


- Attach form to purchase order and mail or FAX to your local distributor.

### Special Instructions:

\_\_\_\_\_

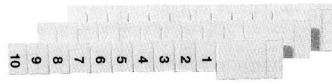
\_\_\_\_\_



# WS Strip Tag System

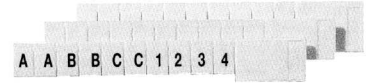
## WS 8, WS 10, WS 12

Print example standard



Consecutive Vertical

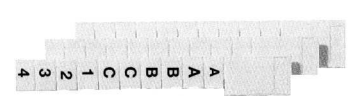
Print example individual



Horizontal



Blank



Vertical

With the WS strip tag system, terminals with long numerical sequences can be marked quickly. The large marking surface provides ample space for marking up to 7 characters. Additionally, the WS strip tags are designed so that they can be marked with an automatic marking system or by hand.

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

WS horizontal

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

WS vertical

### Technical data WS 8, WS 10, WS 12

Material	Polyamide		
Temperature range	(constant)	-40°C...+100°C (-40°F...+212°F)	
Fire classification:	UL 94 V-2		
Components:	Silicone-free		
	Halogens below detectable range		
Order quantity	Order and delivery quantity in No. of strips		
Smudge resistance	Smudge resistant to DIN IEC 50		
Dimensions	WS is available in lengths of 8,10 and 12 mm and widths of 5, 6 and 6.5 mm		

### Strip mounting

Mounting in rows is intended for the quick marking of Weidmüller terminations/plug connectors and electronic components. Up to seven characters per tag are printed in one operation. If only a few, individual markings are required, it is possible to purchase ready-to-use WS tags with individual print. WS tags with individual print can be used for long numerical sequences. The result is ready-to-use tags which save time during marking and still offer all the advantages of individual marking.

#### Blank

White

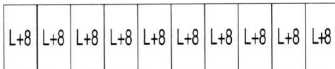


**Print**    **Length (mm)**    for terminals ≥ 5 mm **Part No.**    for terminals ≥ 6 mm **Part No.**    for terminals ≥ 6.5 mm **Part No.**

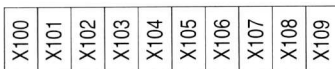
Unprinted, white	8	WS 8/5	<b>1580070000</b>		
(10 tags/strip)	10	WS 10/5	<b>1060860000</b>	WS 10/6	<b>1060960000</b> WS 10/6.5 <b>1568920000</b>
	12	WS 12/5	<b>1061060000</b>	WS 12/6	<b>1061160000</b> WS 12/6.5 <b>1568930000</b>

#### Special print according to your specification

Horizontal, white



Vertical, white



Description	Horizontal		Vertical		Part No.
	Maximum Number of Lines	Maximum Number of Digits per Line	Maximum Number of Lines	Maximum Number of Digits per Line	
WS 8/5 white	2	3	1	5	<b>1580080000</b>
WS 10/5 white	3	3	1	6	<b>1447060000</b>
WS 12/5 white	3	3	1	7	<b>1447460000</b>
WS 10/6 white	3	3	1	6	<b>1447260000</b>
WS 12/6 white	3	3	1	7	<b>1447660000</b>
WS 10/6.5 white	3	4	1	6	<b>1568910000</b>
WS 12/6.5 white	3	4	2	7	<b>1568950000</b>

# Dekafix Connector Markers

## S 10 System

The S 10 marking system consists of the **Type S 10** combination tag and the **T** and **TBS** tag carriers. It is characterized by diverse marking options requiring only low stock levels.

### S 10 combination tag

Keeping a stock of the digits 0...9 and the letters A...Z covers all possible combinations. Mounting is no problem. S 10 markers can be snapped in place easily and the individual elements can be separated easily because they sit firmly in the carriers.

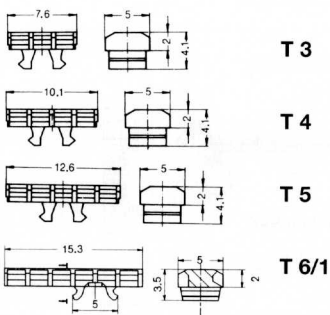
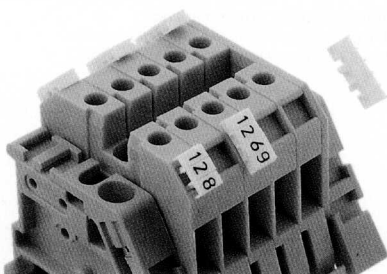
## Carrier Systems

The wide range of marking tags is supplemented by tag holders. This provides even greater flexibility in marking.

- Tag holders accept **DEK**, **WS**, and **S10** marking tags.

Technical data S 10		Number of individual digits for marking from ... to				Type	Print	Part No.	Qty.*	
Material:	Polyamide Simple snap-on mounting and separation via defined break-points	Print	1...50	1...100	1...150	1...200	SO 10	Unprinted	0332300000	1000
Quantity definition:	Individual S 10 tags 10 tags = one S 10 strip 100 strips = one S 10 packaging unit	1	15	21	86	140	SF 10	Printed sequentially 0...9	0332400000	1000
Minimum order quantity:	1000 individual tags = one packaging unit	2	15	20	35	41	SF 10	Printed sequentially 1...10	0331500000	1000
Packaging:	Transparent box with 100 strips, stackable, sortable in SK 12 assortment box	3	15	20	35	41	SG 10	Printed sequentially 11...20	0332500000	1000
Print:	Black, hot-stamped	4	15	20	35	41				
Smudge resistance:	Smudge-resistant to DIN 30646, VDE0611	5	6	20	26	40	<b>0...0 or 1...1 to 9...9</b> <b>A...A or B...B to Z...Z</b> <b>a...a or b...b to z...z</b> Please specify print when ordering!			
		6	5	20	25	40				
		7	5	20	25	40				
		8	5	20	25	40				
		9	5	20	25	40	Special print on request			
		0	5	11	25	31				

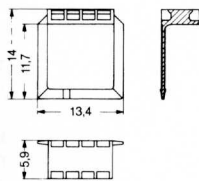
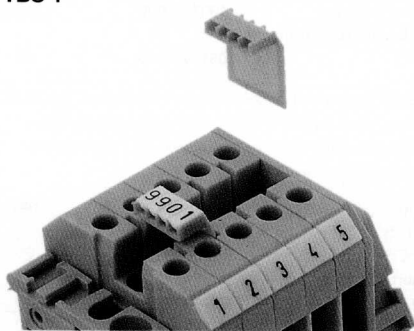
### T 3, T 4, T 5, T 6/1



Tag carriers for flexible mounting on SAK-Series terminals. The connection is designated with the S 10 combination tag.

Type	Part No.	Qty.*
T 3 for 3 S 10 tags	0383000000	100
T 4 for 4 S 10 tags	0332100000	100
T 5 for 5 S 10 tags	0348500000	100
T 6/1 for GSE	1342960000	100

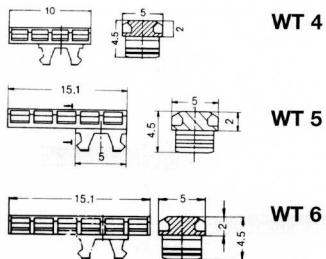
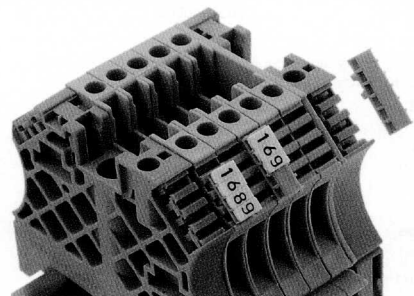
### TBS 1



The tag carriers are slid into the recess of SAK terminals designed for **Type TSch** small partitions.

Type	Part No.	Qty.*
TBS 1	0367560000	100

### WT 4, WT 5, WT 6



The tag carriers are designed for the W-Series and designate the connection points of the W-Series.

Type	Part No.	Qty.*
WT 4	1341060000	100
WT 5	1579330000	100
WT 6	1058960000	100

\*Qty. in number of individual tags, e.g. 1000 S 10 tags = individual tags = one bag

# Dekafix Connector Markers

## SchT System

### SchT tag carriers

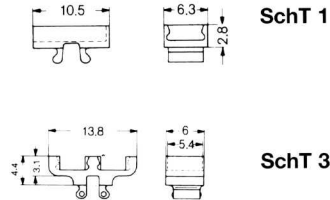
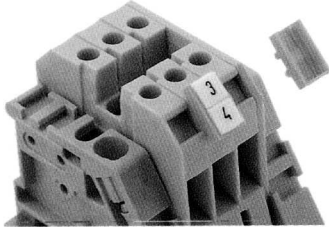
All carrier systems are designed for use on Weidmüller terminations and plug connections or electronic components. No covering of important parts, no obstruction or inadvertent catching. For rare cases of multi-digit marking, the tag carriers are the ideal supplement to the DEK and S 10 marking systems for marking long digit combinations. Special marking tasks can be carried out with the Type SchT carrier, from duplication of the connection designation to group marking.

### Technical Data

Applies to **SchT**, **WGB**, **WAD**, and **ZAD** holders

Material	Polyamide 66
Temperature range	-40°C...+80°C
Flammability rating	UL 94 V2

### SchT 1, SchT 3



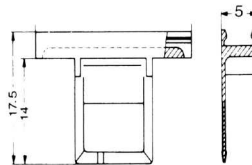
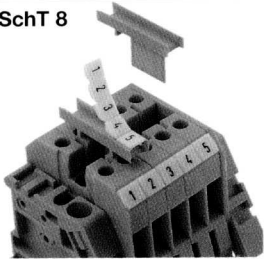
**SchT 1** are preferably marked with two **Type DEK 5** marking tags.

Type	Part No.	Qty.
SchT 1	0242660000	200

**SchT 3** are preferably marked with two **Type DEK 5** marking tags.

Type	Part No.	Qty.
SchT 3	0245560000	100

### SchT 8



The **SchT 8** group tag carrier is slid into the recess of SAK terminals designed for the Type TSch small partition. It is possible to self-mark these tags and to insert 5 DEK tags.

Type	Part No.	Qty.
SchT 8	0686760000	50

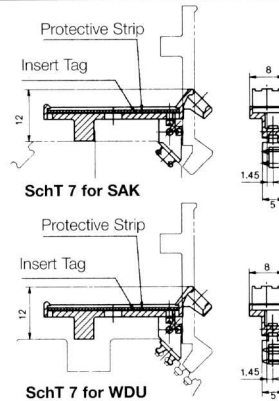
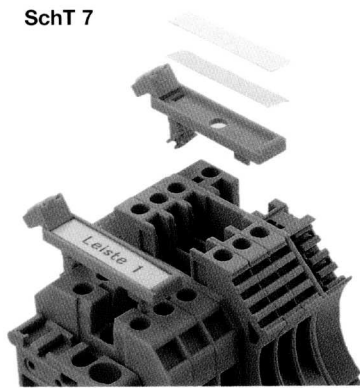
### Marking sheet = 350 paper tags

ESO 8	1607730000	1
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### Tag cover, transparent

SK 8	0686800000	20
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### SchT 7



### SchT carrier system for group marking

The **SchT 7** group tag carrier is slid into the tag recess. This group tag carrier swivels to allow operation of the terminal screws.

Type	Part No.	Qty.
SchT 7	0517960000	20

SchT 7/2 for PCBs	1359360000	20
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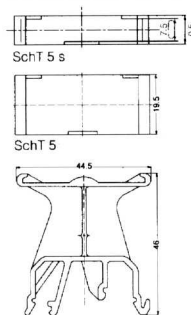
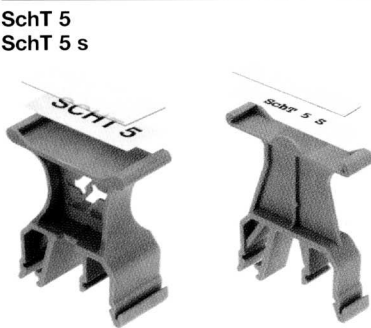
### Insert tag, blank, unprinted

ESO 7 (240 tags)	1607720000	240
------------------	------------	-----

### Protective strip, transparent

STR 7	0515300000	20
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### SchT 5 SchT 5 s



The **SchT 5** group tag carrier is snapped directly onto the TS 32 mounting rail (G rail) or the TS 35 mounting rail (top-hat rail). Terminal strip marking can thus be carried out independently of terminal and terminal type.

Type	Part No.	Qty.
SchT 5	0292460000	20

SchT 5 s	1631930000	20
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### Insert tag, blank, unprinted

ESO 5	1607710000	60
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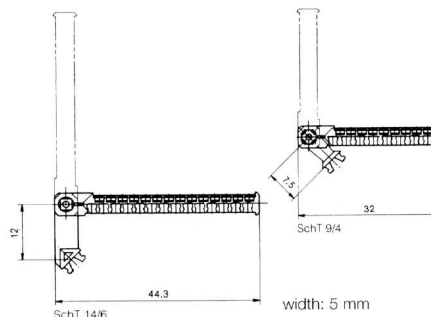
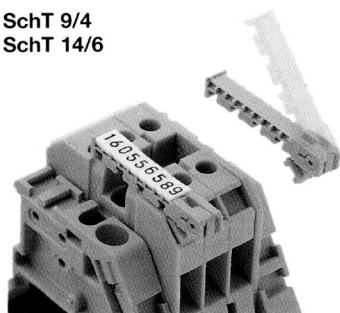
ESO 5 s	1631920000	140
---------	------------	-----

### Protective strip, transparent

STR 5	0294000000	20
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STR 5 s	1631940000	20
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### SchT 9/4 SchT 14/6



Swiveling group tag carrier for W- and SAK-Series terminals. For DEK, S 10 and WS 12 individual tags.

SchT 9/4	SchT 14/6
DEK = 4 tags	DEK = 6 tags
S 10 = 9 tags	S 10 = 14 tags
WS 12 = 2 tags	WS 12 = 3 tags

Type	Part No.	Qty.
SchT 14/6	1269060000	20

### Insert strips, blank, in DIN A4 format

320 labels per sheet ESO 14/6	1607740000	1
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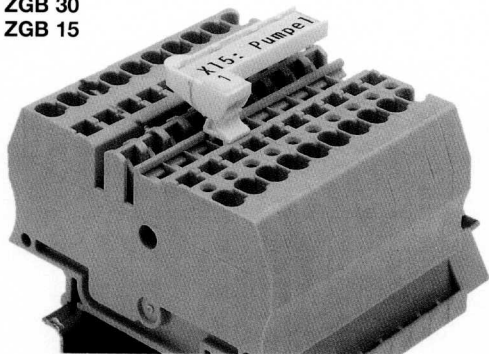
Protective flap SK 14/6	1306600000	20
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SchT 9/14	1278460000	20
-----------	------------	----

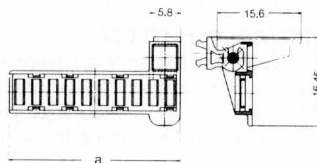
# Dekafix Connector Markers

SchT System

ZGB 30  
ZGB 15



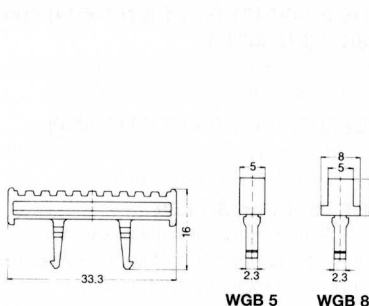
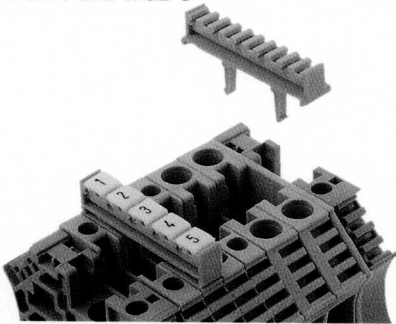
ZGB 30: a = 31.7 mm  
ZGB 15: a = 15 mm



Swiveling group tag carrier for W- and SAK-Series terminals. For DEK, S 10 and WS 12 individual tags.

Type	Part No.	Qty.
ZGB 30	<b>1611930000</b>	20
Insert strips, blank, in DIN A4 format		
240 labels per sheet ESO 7	<b>1607720000</b>	1
Protective strips, clear		
STR 7	<b>0515300000</b>	20
ZGB 15	<b>1636530000</b>	20
Insert strips, blank, in DIN A4 format		
240 labels per sheet ESO 15	<b>1636510000</b>	1
Protective strips, clear STR 15	<b>1636520000</b>	20

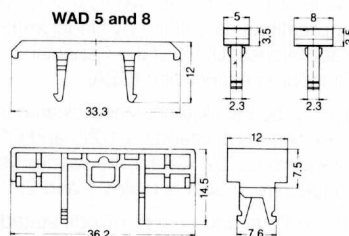
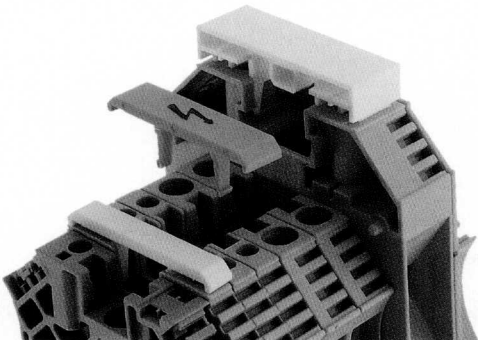
WGB 5 and WGB 8



The **WGB 5 and 8** group tag carriers allow the clear labelling of groups of W-Series terminals. They can accept 5 DEK marking tags or be marked with two Type WS 12 snap-on tags.

Type	Part No.	Qty.
WGB 5	<b>1050760000</b>	50
WGB 8	<b>1050960000</b>	50

WAD



The **WAD 5, 8, 12 and 27** blank covers are marked with the marking pen (Part No. **0508400000**) or the PC scriber. The number indicates the width in mm. These covers are also available in yellow with a lightning symbol to DIN 30600.

Type	Part No.	Qty.
WAD 5 blank	<b>1056060000</b>	50
WAD 5 lightning symbol	<b>1053460000</b>	50
WAD 8 blank	<b>1056160000</b>	50
WAD 8 lightning symbol	<b>1053560000</b>	50
WAD 12 blank	<b>1056260000</b>	50
WAD 12 lightning symbol	<b>1055960000</b>	50
WAD 16N blank	<b>1083500000</b>	50
WAD 16N lightning symbol	<b>1083600000</b>	50
WAD 27 blank	<b>1062960000</b>	10
WAD 27 lightning symbol	<b>1062860000</b>	10

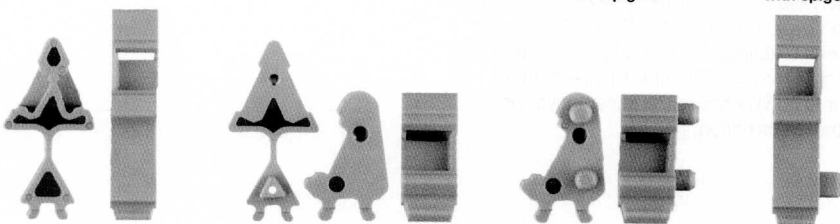
BZT

BZT 1

BZT 2

BZT 2 with spigots

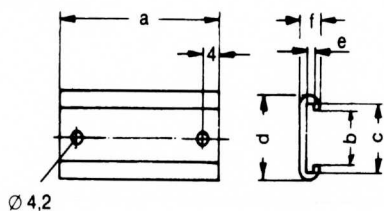
BZT 1 with spigots



The **BZT** tag carrier is designed to attach to the center tag area of tension clamp terminals. **BZT 1** bends to allow access to jumper channel. Accepts WS 10/5 and DEK 5 marking tags.

Type	Part No.
BZT 1	<b>1805490000</b>
BZT 1 with spigots	<b>1805520000</b>
BZT 2	<b>1805480000</b>
BZT 2 with spigots	<b>1805530000</b>

SchS/BS



Tag rails enable the use of connector markers on all surfaces which have no locating groove, e.g. for devices and components.

Pre-cut SchS 1 tag rails complete with SST protective strips.

Printed on request.  
SchS 2 for Dekafix

Type	Length	Part No.	Qty.
SchS	1.0 m	<b>0138900000</b>	1
STR	0.5 m	<b>0139200000</b>	1
SchS 2	1.0 m	<b>0337400000</b>	1
BS 40	40 mm	<b>0138200000</b>	20
BS 60	60 mm	<b>0139300000</b>	20
BS 80	80 mm	<b>0139400000</b>	20
BS 100	100 mm	<b>0139500000</b>	20
BS 120	120 mm	<b>0139600000</b>	20
BS 140	140 mm	<b>0139700000</b>	20