

Z-series

Reliability has got a name...

Weidmüller is market leader for terminal blocks worldwide. In addition to the screwtype terminals we offer our customers the tension clamp technology as a further conductor connection system. The Z-series represents a high quality product family in a rapidly growing market. Tension clamp terminal blocks with a cross-section between 0.13 and 35 mm² enable optimized and application proof solutions. Within the scope of product development we always see the key benefit for the customer at first ...

Electrical connection ...



- Separation between mechanical and electrical function
- Spring made of stainless steel gastight connection – low voltage drop
- Maintenance-free – safe connection lifelong
- Surface protected current bar to avoid oxidation
- 100% vibration resistant

High quality material for technically perfect connection ...

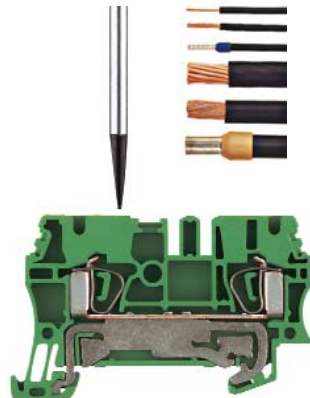
Wemid insulating material ...



- Non-tracking – CTI 600
- Temperature resistant up to 120 °C – no derating up to 75 °C
- Self-extinguishing – V0 acc. to UL 94
- No harmful substances

Maximum reliability at all climates ...

Handling ...



- Practical connection due to parallel insertion of screwdriver and conductor – TOP-connection
- No special tool necessary
- Built-in test point

Safety by clearness ...

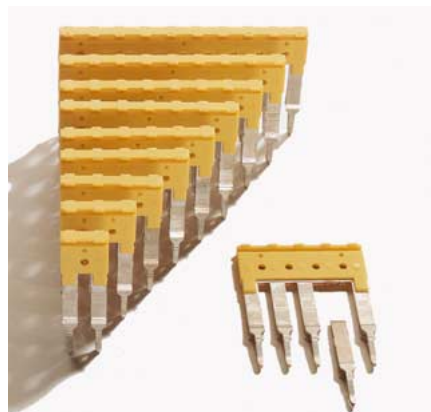
- Easy handling due to wide clamping space according to IEC 947-1
- Clampability of rated cross-section with ferrule

Maximum clamping space for variable connections ...

- One piece PE contact
- Sliding along the mounting rail possible without damaging the PE contact

Advantages in installation and safety function at the same time ...

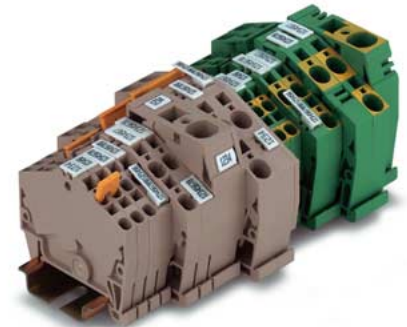
Pluggable cross-connection ...



- Pluggable cross-connection
- 2 to 10 poles or endless for individual cutting length
- Full load with rated current
- Breaking off contact legs to skip different potentials

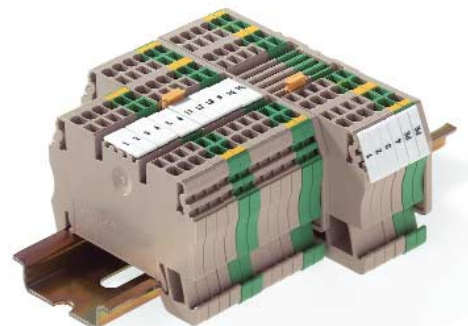
Minimum mounting time and maximum flexibility at the same time ...

Z-Roof - the compact alternative ...



- Angled insertion of screwdriver
- Reduction in conductor length of up to 36%
- Uniform contour of different variants
- Feed-through and protective conductor terminal blocks 2.5-6 mm²
- Fuse and disconnect terminal 2.5 mm²
- Potential distribution terminal 16 mm²
- 2 cross-connection channels
- Large marking channel in centre of terminal

The slimmest solution available for small switchgear cabinets ...



Z ... 1.5/R3.5 - the smallest solution

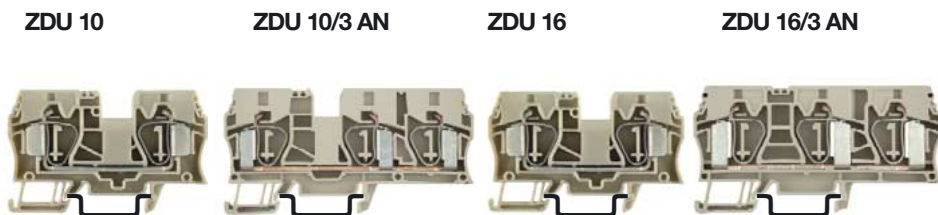
- Width only 3.5 mm
- Feed-through and potential supply terminal for 2, 3, 4 conductor connections
- Double-level and feed-in terminals
- Maximum continuous current 17.5 A according to IEC standard
- 2 cross-connection channels
- Application-oriented, marking channels
- Wide range of accessories for universal use

The slimmest terminal with spring-tensioned technology ...

An extensive assortment of accessories for more flexibility and application proof solutions completes the product range. Please compare.

....it is the Z-series.

Feed-through terminal blocks



Z-series

		ZDU 10	ZDU 10/3 AN	ZDU 16	ZDU 16/3 AN
Dimensions/approvals					
Width/length/height (mm)	with TS 35 x 7.5	10/73.5/50.5	10/99/50	12/82.5/51.5	12/99/50
Insulation stripping length	mm	18	18	18	18
Rated data IEC 60 947-7-1					
Rated voltage/rated current/rated cross-section		800 V/57 A/10 mm ²	800 V/57 A/10 mm ²	800 V/76 A/16 mm ²	800 V/76 A/16 mm ²
Rated impulse voltage/pollution severity		8 kV/3	8 kV/3	8 kV/3	8 kV/3
Further technical data					
Clampable conductor:					
Solid H07V-U	mm ²	1.5...16	1.5...16	1.5...16	1.5...16
Stranded H07V-R	mm ²	1.5...16	1.5...16	1.5...25	1.5...25
Flexible H07V-K	mm ²	1.5...10	1.5...10	1.5...16	1.5...16
With ferrule according to DIN 46 228/1**	mm ²	1.5...10	1.5...10	1.5...16	1.5...16
With ferrule with plastic insulating collar**	mm ²	1.5...10	1.5...10	1.5...16	1.5...16
Max. clamping range in mm ² /gauge pin to IEC 60 947-1	Size	1.5...16 A6	1.5...16 A6	1.5...25 A7	1.5...25 A7
Continuous current rating 2-pole	A	57	57	76	76
Continuous current rating multipole	A				
UL/CSA rated data					
Voltage/current/conductor size	UL	600 V/60 A/16...6 AWG	600 V/60 A/16...6 AWG	600 V/65 A/14...4 AWG	600 V/65 A/14...4 AWG
Voltage/current/conductor size	CSA	600 V/55 A/16...6 AWG	600 V/55 A/16...6 AWG	600 V/65 A/14...4 AWG	600 V/65 A/14...4 AWG
Ordering data		Version			
	Dark beige Wemid	Cat. No. Qty.	Cat. No. Qty.	Cat. No. Qty.	Cat. No. Qty.
	Blue Wemid	ZDU 10 1746750000 25	ZDU10/3AN 1767690000 20	ZDU 16 1745230000 25	ZDU16/3AN 1768320000 20
	Orange PA	ZDU 10 BL 1746760000 25	...3AN BL 1767700000 20	ZDU 16 BL 1745240000 25	...3AN BL 1768330000 20
End plate/partition		Version			
ZAP/TW	Thickness = 3 mm	Dark beige Wemid	Type Cat. No. Qty.	Type Cat. No. Qty.	Type Cat. No. Qty.
		Blue Wemid	ZAP/TW ZDU10 1748660000 20	ZAP/TW10/16 1749580000 20	ZAP/TW ZDU16 1745150000 20
		Orange PA	ZAP/TW ZDU10 1764110000 20	ZAP/TW10/16BL 1768520000 20	ZAP/TW10/16BL 1768520000 20
			ZAP/TW ZDU10 1748670000 20	ZAP/TW10/16OR 1749590000 20	ZAP/TW ZDU16 1745160000 20
Cross-connection					
ZQV 10	ZQV 16		ZQV 10/2 1739680000 50	ZQV 10/2 1739680000 25	ZQV 16/2 1739690000 25
Test lug		Version			
PS			PS 2.3 0180400000 20	PS 2.3 0180400000 20	PS 2.3 0180400000 20
TA			PS 2.0 0293800000 20	PS 2.0 0293800000 20	PS 2.0 0293800000 20
			TA 1 0535860000 20	TA 1 0535860000 20	TA 1 0535860000 20
Screwdriver					
SD to DIN 5264-A			SD 1 x 5.5 9008350000 1	SD 1 x 5.5 9008350000 1	SD 1 x 5.5 9008350000 1
Cover					
ZAD			ZAD 4/5 1746730000 20	ZAD 4/5 1746730000 20	ZAD 5/5 1745210000 20
Group marking					
ZGB			ZGB 30 1611930000 20	ZGB 30 1611930000 20	ZGB 30 1611930000 20
ESO	Blank snap-on tab		ESO 7 1607720000 240	ESO 7 1607720000 240	ESO 7 1607720000 240
STR	Transparent protective cover		STR 7 0515300000 20	STR 7 0515300000 20	STR 7 0515300000 20
Marking tags		Print			
	DEK	Standard	DEK 5 section "Accessories"	DEK 5 section "Accessories"	DEK 5 section "Accessories"
	ZS	neutral	ZS 15/5 1646630000 480	ZS 15/5 1646630000 480	ZS 15/5 1646630000 480
	WS	neutral	WS 12/5 1609860000 720	WS 12/5 1609860000 720	WS 15/5 1609880000 480
Mounting rails, end brackets, further marking material see section "Accessories"					

** Ferrules crimped gas-tight

Protective conductor terminal blocks

ZPE 4

ZPE 4/3 AN

ZPE 4/4 AN

ZPE 6



Dimensions/approvals

Width/length/height (mm) with TS 35 x 7.5

Insulation stripping length mm

Rated data IEC 60 947-2

Rated voltage/current PEN/cross-section

Rated voltage/rated impulse voltage/pollution severity to VDE 0110/1.89 to neighbouring terminal

Further technical data

Clampable conductor:

Solid H07V-U mm²

Stranded H07V-R mm²

Flexible H07V-K mm²

With ferrule according to DIN 46 228/1** mm²

With ferrule with plastic insulating collar** mm²

Max. clamping range in mm²/gauge pin to IEC 60 947-1 Size

UL/CSA rated data

Voltage/current/conductor size UL

Voltage/current/conductor size CSA

Ordering data

Version

Green/yellow Wemid

End plate/partition

Version

ZAP/TW 1...5 Thickness = 2 mm Dark beige Wemid

ZAP/TW 7 Thickness = 2.5 mm

Support block

SH

For insulated mounting of mounting rails in insulated-earth installations.

Test adapter

Version

ZTA Without pin

PS With pin

TA

PS 2.3

PS 2.0

Screwdriver

SD to DIN 5264-A

Group marking

ZGB

ESO Blank snap-on tab

STR Transparent protective cover

Reducing sleeves***

Colour

ZRH for conductor 0.13...0.2 mm² White

ZRH for conductor 0.25...0.5 mm² Grey

ZRH for conductor 0.75...1 mm² Dark grey

Marking tags

Print

DEK Standard

ZS neutral

ZS WS neutral

Mounting rails, end brackets, further marking material see section "Accessories"

** Ferrules crimped gas-tight

*** Standard pack includes 100 strips for 10-poles each

UL/CSA approvals

6/62/43.5

12

-V/-A/4 mm²

800 V/8 kV/3

0.5...6

1.5...6

0.5...6

0.5...4

0.5...4

0.21...6 A4

-V/-A/26...10 AWG

-V/-A/26...10 AWG

Cat. No. Qty.

ZPE 4 **1632080000** 100

UL/CSA approvals

6/84/43

12

-V/-A/4 mm²

800 V/8 kV/3

0.5...6

0.5...6

0.5...6

0.5...4

0.5...4

0.21...6 A4

-V/-A/26...10 AWG

-V/-A/26...10 AWG

Cat. No. Qty.

ZPE 4/3AN **7904170000** 50

UL/CSA approvals

6/105/43

12

-V/-A/4 mm²

800 V/8 kV/3

0.5...6

0.5...6

0.5...6

0.5...4

0.5...4

0.21...6 A4

-V/-A/26...10 AWG

-V/-A/26...10 AWG

Cat. No. Qty.

ZPE 4/4AN **7904280000** 50

UL/CSA approvals

8/65/45.5

13

-V/-A/6mm²

800 V/8 kV/3

0.5...10

1.5...10

0.5...10

0.5...6

0.5...6

0.21...10 A5

-V/-A/22...8 AWG

-V/-A/20...8 AWG

Cat. No. Qty.

ZPE 6 **1608670000** 50

Type Cat. No. Qty.

ZAP/TW4 **1632090000** 50

Type Cat. No. Qty.

ZAP/TW4/3AN **7904100000** 50

Type Cat. No. Qty.

ZAP/TW4/4AN **7904210000** 50

Type Cat. No. Qty.

ZAP/TW5 **1608830000** 50

SH 2 **0494920000** 10

SH 2 **0494920000** 10

SH 2 **0494920000** 10

SH 2 **0494920000** 10

ZTA 2 **1609060000** 25

ZTA 2/ZA **1609070000** 25

TA 1 **0535860000** 20

PS 2.3 **0180400000** 20

PS 2.0 **0293800000** 20

ZTA 2 **1609060000** 25

ZTA 2/ZA **1609070000** 25

TA 1 **0535860000** 20

PS 2.3 **0180400000** 20

PS 2.0 **0293800000** 20

ZTA 2 **1609060000** 25

ZTA 2/ZA **1609070000** 25

TA 1 **0535860000** 20

PS 2.3 **0180400000** 20

PS 2.0 **0293800000** 20

ZTA 3 **1654050000** 25

TA 1 **0535860000** 20

SD 0.6 x 3.5 **9008330000** 1

SD 0.6 x 3.5 **9008330000** 1

SD 0.6 x 3.5 **9008330000** 1

SD 1 x 5.5 **9008350000** 1

ZGB 30 **1611930000** 20

ESO 7 **1607720000** 240

STR 7 **0515300000** 20

ZGB 30 **1611930000** 20

ESO 7 **1607720000** 240

STR 7 **0515300000** 20

ZGB 30 **1611930000** 20

ESO 7 **1607720000** 240

STR 7 **0515300000** 20

ZGB 30 **1611930000** 20

ESO 7 **1607720000** 240

STR 7 **0515300000** 20

ZRH 4/1 **1636640000** 100

ZRH 4/2 **1636650000** 100

ZRH 4/3 **1636660000** 100

ZRH 4/1 **1636640000** 100

ZRH 4/2 **1636650000** 100

ZRH 4/3 **1636660000** 100

ZRH 4/1 **1636640000** 100

ZRH 4/2 **1636650000** 100

ZRH 4/3 **1636660000** 100

DEK 6 section "Accessories"

ZS 12/6 **1610020000** 400

WS 10/6 **1060960000** 200

DEK 6 section "Accessories"

ZS 12/6 **1610020000** 400

WS 12/6 **1609900000** 600

DEK 6 section "Accessories"

ZS 12/6 **1610020000** 400

WS 12/6 **1609900000** 600

DEK 8 section "Accessories"

ZS 12/6 **1610020000** 400

WS 12/6 **1609900000** 600

Protective conductor terminal blocks

ZPE 6/3 AN

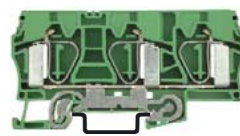
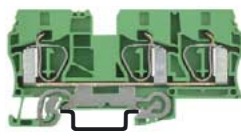
ZPE 10

ZPE 10/3 AN

ZPE 16

ZPE 16/3 AN

ZPE 35



8/90/45		10/73.5/50.5		10/99/50		12/82.5/51.5		12/99/50		16/100/60	
13		18		18		18		18		25	
-V/-A/6 mm ²		-V/-A/10 mm ²		-V/-A/10 mm ²		-V/-A/16 mm ²		-V/-A/16 mm ²		-V/-A/35 mm ²	
800 V/8 kV/3		800 V/8 kV/3		800 V/8 kV/3		800 V/8 kV/3		800 V/8 kV/3		800 V/8 kV/3	
0.5...10		1.5...10		1.5...16		1.5...10		1.5...16		2.5...10	
0.5...10		1.5...16		1.5...16		1.5...25		1.5...25		2.5...35	
0.5...10		1.5...10		1.5...10		1.5...16		1.5...16		2.5...35	
0.5...6		0.5...10		1.5...10		1.5...16		1.5...16		2.5...35	
0.5...6		0.5...10		1.5...10		1.5...16		1.5...16		2.5...35	
0.21...10		1.5...16		1.5...16		1.5...25		1.5...25		2.5...35	
A5		A6		A6		A7		A7		A8	
-V/-A/22...8 AWG		-V/-A/16...6 AWG		-V/-A/16...6 AWG		-V/-A/14...4 AWG		-V/-A/14...4 AWG		-V/-A/12...2 AWG	
-V/-A/20...8 AWG		-V/-A/16...6 AWG		-V/-A/16...6 AWG		-V/-A/14...4 AWG		-V/-A/14...4 AWG		-V/-A/12...2 AWG	
Cat. No. Qty.		Cat. No. Qty.		Cat. No. Qty.		Cat. No. Qty.		Cat. No. Qty.		TS35x15 Cat. No. Qty.	
ZPE 6/3AN 7907400000 50		ZPE 10 1746770000 50		ZPE 10/3AN 1767670000 20		ZPE 16 1745250000 50		ZPE 16/3AN 1768310000 20		ZPE 35 1739650000 10	
Type Cat. No. Qty.		Type Cat. No. Qty.		Type Cat. No. Qty.		Type Cat. No. Qty.		Type Cat. No. Qty.		Type Cat. No. Qty.	
ZAP/TW4/3AN 7907370000 50		ZAP/TW ZDU10 1748660000 20		ZAP/TW10/16 1749580000 20		ZAP/TW ZDU16 1745150000 20		ZAP/TW10/16 1749580000 20		End plate is integrated	
SH 2 0494920000 10		SH 2 0494920000 10		SH 2 0494920000 10		SH 2 0494920000 10		SH 2 0494920000 10		SH 2 0494920000 10	
ZTA 3 1654050000 25											
TA 1 0535860000 20		TA 1 0535860000 20		TA 1 0535860000 20		TA 1 0535860000 20		TA 1 0535860000 20		TA 1 0535860000 20	
PS 2.3 0180400000 20		PS 2.3 0180400000 20		PS 2.3 0180400000 20		PS 2.3 0180400000 20		PS 2.3 0180400000 20		PS 2.3 0180400000 20	
PS 2.0 0293800000 20		PS 2.0 0293800000 20		PS 2.0 0293800000 20		PS 2.0 0293800000 20		PS 2.0 0293800000 20		PS 2.0 0293800000 20	
SD 1 x 5.5 9008350000 1		SD 1 x 5.5 9008350000 1		SD 1 x 5.5 9008350000 1		SD 1 x 5.5 9008350000 1		SD 1 x 5.5 9008350000 1		SD 1 x 5.5 9008350000 1	
ZGB 30 1611930000 20		ZGB 30 1611930000 20		ZGB 30 1611930000 20		ZGB 30 1611930000 20		ZGB 30 1611930000 20		ZGB 30 1611930000 20	
ESO 7 1607720000 240		ESO 7 1607720000 240		ESO 7 1607720000 240		ESO 7 1607720000 240		ESO 7 1607720000 240		ESO 7 1607720000 240	
STR 7 0515300000 20		STR 7 0515300000 20		STR 7 0515300000 20		STR 7 0515300000 20		STR 7 0515300000 20		STR 7 0515300000 20	
DEK 8 section "Accessories"		DEK 5 section "Accessories"		DEK 5 section "Accessories"		DEK 5 section "Accessories"		DEK 5 section "Accessories"		DEK 5 section "Accessories"	
ZS 12/6 1610020000 400		ZS 15/5 1646630000 400		ZS 15/5 1646630000 400		ZS 15/5 1646630000 400		ZS 15/5 1646630000 400		ZS 10/5 1610000000 480	
WS 12/6 1609900000 600		WS 12/6 1609900000 600		WS 12/6 1609900000 600		WS 15/5 1609880000 480		WS 15/5 1609880000 480		WS 15/5 1609880000 480	

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