

**Z-series  
ZDK 2.5-2V**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 1429-0  
 Fax: +49 5231 14292083  
 www.weidmueller.com


**Spring connection with tension clamp Technology**

Tension clamp technology is a universal contact system for all common conductor connection types. Its fantastic level of flexibility makes the tension clamp a profitable alternative connection.

**General ordering data**

Type	ZDK 2.5-2V
Order No.	<a href="#">1791030000</a>
Version	Feed-through terminal, Double-tier terminal, Tension clamp connection, 2.5 mm <sup>2</sup> , 800 V, 24 A, Dark Beige
GTIN (EAN)	4032248331208
Qty.	50 pc(s).

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**Technical data****Dimensions and weights**

Width	5.1 mm	Width (inches)	0.201 inch
Height	72.5 mm	Height (inches)	2.854 inch
Depth	54.5 mm	Depth (inches)	2.146 inch
Depth including DIN rail	55.5 mm	Net weight	10.18 g

**Temperatures**

Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	120 °C
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**Material data**

Material	Wemid	Colour	Dark Beige
UL 94 flammability rating	V-0		

**Rating data IECEx/ATEX**

Certificate No. (ATEX)	KEMA97ATEX4677U	Certificate No. (IECEX)	IECEXULD05.0009U
Max. voltage (ATEX)	550 V	Current (ATEX)	22 A
Wire cross section max. (ATEX)	2.5 mm <sup>2</sup>	Max. voltage (IECEX)	550 V
Current (IECEX)	20 A	Wire cross section max. (IECEX)	2.5 mm <sup>2</sup>
Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity	Ex 2014/34/EU label	II 2 G D

**System specifications**

Version	Tension-clamp connection, Vertically cross-connected, for plug-in cross-connector, One end without connector	End cover plate required	Yes
Number of levels	2	No. of clamping points per level	2
Levels cross-connected internally	Yes	PE connection	No
Mounting rail	TS 35		

**Additional technical data**

Explosion-tested version	Yes	Number of similar terminals	1
Open sides	right	Type of mounting	Snap-on

**CSA rating data**

Certificate No. (CSA)	200039-1236167	Current size B (CSA)	25 A
Current size D (CSA)	10 A	Voltage size B (CSA)	300 V
Voltage size D (CSA)	300 V	Wire cross section max. (CSA)	12 AWG
Wire cross section min. (CSA)	30 AWG		

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**Technical data****Conductors for clamping (rated connection)**

Blade size	0.6 x 3.5 mm	Clamping range, rated connection, max.	4 mm <sup>2</sup>
Clamping range, rated connection, min.	0.05 mm <sup>2</sup>	Connection direction	Inclined / angled
Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	0.5 mm <sup>2</sup>	Gauge to IEC 60947-1	A2
Number of connections	4	Stripping length	10 mm
Type of connection	Tension clamp connection	Wire connection cross section AWG, max.	AWG 12
Wire connection cross section AWG, min.	AWG 30	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.	2.5 mm <sup>2</sup>
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.	0.5 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>
Wire connection cross section, solid core max. rated connection	4 mm <sup>2</sup>	Wire connection cross section, solid core, min. rated connection	0.5 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	1.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded, min.	0.5 mm <sup>2</sup>

**Rating data**

Rated cross-section	2.5 mm <sup>2</sup>	Rated voltage	800 V
Rated current	24 A	Current at maximum wires	24 A
Standards	IEC 60947-7-1	Volume resistance according to IEC 60947-7-x	1.33 mΩ
Rated impulse withstand voltage	8 kV	Pollution severity	3

**UL rating data**

Certificate No. (cURus)	E60693	Conductor size Factory wiring max. (cURus)	12 AWG
Conductor size Factory wiring min. (cURus)	30 AWG	Conductor size Field wiring max. (cURus)	12 AWG
Conductor size Field wiring min. (cURus)	30 AWG	Current size C (cURus)	20 A
Voltage size C (cURus)	600 V		

**Classifications**

ETIM 3.0	EC000897	ETIM 4.0	EC000897
ETIM 5.0	EC000897	ETIM 6.0	EC000897
UNSPSC	30-21-18-11	eClass 5.1	27-14-11-18
eClass 6.2	27-14-11-20	eClass 7.1	27-14-11-20
eClass 8.1	27-14-11-20	eClass 9.0	27-14-11-20
eClass 9.1	27-14-11-20		

**Product information**

Descriptive text ordering data	Rated voltage is reduced to 400 V when using the cross-connector.
Descriptive text technical data	2.5 mm <sup>2</sup> flexible wires with wire-end ferrules are crimped with the Weidmüller PZ 6/5 crimping tool.

**Data sheet****Z-series  
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Approvals



ROHS

Conform

**Downloads**Approval/Certificate/Document of  
Conformity[DE\\_PT1101\\_20160418\\_1068\\_ISSUE01.pdf](#)

Brochure/Catalogue

[CAT 1 TERM 16/17 EN](#)

Engineering Data

[EPLAN, WSCAD](#)**Safety note**

Safety notice

[Safety Information](#)

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**Drawings**



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**Accessories**

**End plates**



**Spring connection with tension clamp Technology**

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**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
ZAP/TW	<a href="#">1791050000</a>	Z-series, End plate,	4032248223763	20 pc(s).
ZDK2.5-2		Seperation plate		
ZAP/TW	<a href="#">1791070000</a>	Z-series, End plate,	4032248223787	20 pc(s).
ZDK2.5-2 OR		Seperation plate		
ZAP/TW	<a href="#">1791060000</a>	Z-series, End plate,	4032248223770	20 pc(s).
ZDK2.5-2 BL		Seperation plate		

**Covers**



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**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
ZAD 1/4-2 GE	<a href="#">1764560000</a>	Z-series, Cover	4032248066063	20 pc(s).

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# Accessories

## Custom printing



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/5 MC SDR	<a href="#">1609810000</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, To customer specification	4008190456597	200 pc(s).

## Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with laser printer, PrintJet ADVANCED, plotter or MC-Mobilo is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
WS 10/15 MC NE WS	<a href="#">1854090000</a>	WS, Terminal marker, 10 x 15 mm, Pitch in mm (P): 15.00 Weidmueller, Allen- Bradley, White	4032248390694	240 pc(s).

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**Accessories**

**Tools**



Tools for removing the sheathing of uncut power cables and outgoing feeders, plus screwdrivers for installing FieldPower components.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
SDS 0.6X3.5X100	<a href="#">9008330000</a>	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm	4032248056286	1 pc(s).

**Operating tool**



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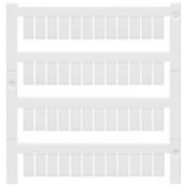
**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
ZBW-6	<a href="#">1650700000</a>	Z-series, Operating tool	4008190299378	1 pc(s).
ZBW 1/3.5	<a href="#">1781930000</a>	Z-series, Operating tool	4032248199532	1 pc(s).
ZBWW	<a href="#">1669630000</a>	Z-series, Operating tool	4008190429119	1 pc(s).
ZBW 1	<a href="#">1669620000</a>	Z-series, Operating tool	4008190429126	1 pc(s).
ZBW 4	<a href="#">1650690000</a>	Z-series, Operating tool	4008190299361	1 pc(s).



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**Accessories**
**Blank**


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- Can be fitted in strips or individually
- Markers in proven MultiCard format

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
WS 10/5 M MC NE WS	<a href="#">1792000000</a>	WS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, Allen-Bradley, White	4032248223862	720 pc(s).
WS 10/5 MC NE WS	<a href="#">1635000000</a>	WS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, Allen-Bradley, White	4008190261948	720 pc(s).

**ZQV 2.5**

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Type	Order No.	Version	GTIN (EAN)	Qty.
ZQV 2.5/4	<a href="#">1608880000</a>	Accessories, Cross- connector, 24 A	4008190082208	60 pc(s).
ZQV 2.5/6	<a href="#">1608900000</a>	Accessories, Cross- connector, 24 A	4008190149840	20 pc(s).
ZQV 2.5/9	<a href="#">1608930000</a>	Accessories, Cross- connector, 24 A	4008190117009	20 pc(s).
ZQV 2.5/5	<a href="#">1608890000</a>	Accessories, Cross- connector, 24 A	4008190065713	20 pc(s).
ZQV 2.5/50	<a href="#">1697540000</a>	Accessories, Cross- connector, 24 A	4008190883256	10 pc(s).
ZQV 2.5/2	<a href="#">1608860000</a>	Accessories, Cross- connector, 24 A	4008190123680	60 pc(s).
ZQV 2.5/3	<a href="#">1608870000</a>	Accessories, Cross- connector, 24 A	4008190061630	60 pc(s).

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**Accessories**

ZQV 2.5/7	<a href="#">1608910000</a>	Accessories, Cross-connector, 24 A	4008190159665 20 pc(s).
ZQV 2.5/10	<a href="#">1608940000</a>	Accessories, Cross-connector, 24 A	4008190099060 20 pc(s).
ZQV 2.5/8	<a href="#">1608920000</a>	Accessories, Cross-connector, 24 A	4008190061531 20 pc(s).
ZQV 2.5/20	<a href="#">1908960000</a>	Z-series, Cross-connector, For the terminals, No. of poles: 20	4032248535293 20 pc(s).

**End brackets**



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**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
ZEW 35	<a href="#">9540000000</a>	Z-series, End bracket	4008190956264	20 pc(s).

**Test adapter**



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**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
ZTA 4	<a href="#">1688110000</a>	Accessories, Test adapter, 11 A	4008190855666	25 pc(s).

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**Accessories**

**Reduction Sleeves**



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Type	Order No.	Version	GTIN (EAN)	Qty.
ZRH 1.5H/2	<a href="#">1678800000</a>	Z-series, Reducing sleeve	4008190487317	1,000 pc(s).
ZRH 1.5H/1	<a href="#">1678810000</a>	Z-series, Reducing sleeve	4008190487324	1,000 pc(s).