

**Z-series  
ZDU 2.5-2 OR**

**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	ZDU 2.5-2 OR
Order No.	<a href="#">1772080000</a>
Version	Feed-through terminal, Tension clamp connection, 2.5 mm <sup>2</sup> , 800 V, 24 A, Orange
GTIN (EAN)	4032248128723
Qty.	100 pc(s).

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

Width	5.1 mm	Width (inches)	0.201 inch
Height	50.5 mm	Height (inches)	1.988 inch
Depth	43 mm	Depth (inches)	1.693 inch
Depth including DIN rail	44 mm	Net weight	5.4 g

**Temperatures**

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

Material	Wemid	Colour	Orange
UL 94 flammability rating	V-0		

**Rating data IECEx/ATEX**

Certificate No. (ATEX)	KEMA97ATEX4677U	Max. voltage (ATEX)	550 V
Current (ATEX)	21 A	Wire cross section max. (ATEX)	2.5 mm <sup>2</sup>
Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity	Marking EN 60079-7	
Ex 2014/34/EU label	II 2 G D		Ex e II

**System specifications**

Version	Tension-clamp connection, for plug-in cross-connector, One end without connector	End cover plate required	Yes
Number of levels	1	No. of clamping points per level	2
Number of potentials per tier	1	Levels cross-connected internally	No
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)	200039-1194786	Current size C (CSA)	24 A
Voltage size C (CSA)	600 V	Wire cross section max. (CSA)	12 AWG
Wire cross section min. (CSA)	26 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.	0.13 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	2	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 26	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.	1.5 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)	26 AWG	Conductor size Field wiring max. (cURus)	12 AWG
Conductor size Field wiring min. (cURus)	26 AWG	Current size C (cURus)	24 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	27-14-11-20
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.
Descriptive text accessories	The rated voltage is decreased to 250 V when using the shielding rail LS 2.8 (1056400000).

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**Technical data****Approvals**

Approvals



ROHS

Conform

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">CFAT_ZDU 2.5-2.pdf</a> <a href="#">DE_PT1141_20160418_1223_ISSUE01.pdf</a>
Engineering Data	<a href="#">EPLAN, WSCAD, Zuken E3.S</a>

**Safety note**

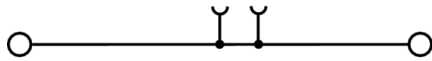
Safety notice	<a href="#">Safety Information</a>
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**Drawings**



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**Accessories**
**End bracket**

**Klippon® Connect with clamping yoke Technology**

The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easier and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
EW 35	<a href="#">0383560000</a>	Accessories, End bracket	4008190181314 50 pc(s).	
EW 35 GR 7032	<a href="#">0383530000</a>	Accessories, End bracket	4008190027322 50 pc(s).	
EW 35/ SCHA/M3	<a href="#">0258660000</a>	Accessories, End bracket	4008190033477 20 pc(s).	

**End brackets**

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**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
WEW 35/1	<a href="#">1059000000</a>	W-Series, End bracket	4008190172282 50 pc(s).	
WEW 35/2	<a href="#">1061200000</a>	W-Series, End bracket	4008190030230 100 pc(s).	

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**Accessories**
**ZQV 2.5**

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**General ordering data**

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).
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 35/2	<a href="#">8630740000</a>	Z-series, End bracket	4032248348916	20 pc(s).

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**Accessories**

ZEW 35 [954000000](#) Z-series, End bracket 4008190956264 20 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 12/5 MC	<a href="#">1609860000</a>	WS, Terminal marker, 12 x	4008190203481	720 pc(s).
NE WS		5 mm, Pitch in mm (P): 5.00 Weidmueller, Allen-Bradley, White		

**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,	4008190855666	25 pc(s).
		11 A		



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**Accessories**

**End plates**



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Type	Order No.	Version	GTIN (EAN)	Qty.
ZAP/TW7 BL	<a href="#">1706120000</a>	Z-series, End plate, Seperation plate	4008190915469 50	pc(s).
ZAP/TW7	<a href="#">1706110000</a>	Z-series, End plate, Seperation plate	4008190915452 50	pc(s).
ZAP/TW7 OR	<a href="#">1706130000</a>	Z-series, End plate, Seperation plate	4008190915476 50	pc(s).

**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**


ZS markers - in proven MultiCard-format - have been developed specifically for the Z-series. They have a large printing area. The hinged mechanism even allows access to cross-connectors without dismantling. Quick installation is guaranteed by the fact that the single tags are clipped on in strips. The single tags are easy to separate.

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

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
ZS 15/5 MC NE WS	<a href="#">1646630000</a>	ZS, Terminal marker, 15 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, Allen-Bradley, White	4008190401214	480 pc(s).

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**Accessories**

**Tools**

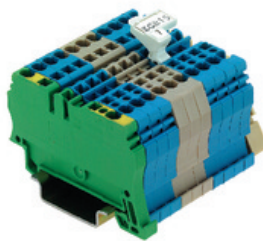


Tools for removing the sheathing of uncut power cables and outgoing feeders, plus screwdrivers for installing FieldPower components.

**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).

**ZGB pivotable group tag holder**



The ZGB 15 is a hinged group tag carrier. The tag carrier can hold the dekafix 5, WS 12/5 terminal markers or the inlay tag ESO 15.  
 The ZGB 30 is a hinged group tag carrier. The tag carrier can hold the dekafix 5, WS 12/5 terminal markers or the inlay tag ESO 7.  
 Inlay tags and protective strips can be found under "Accessories".

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
ZGB 15	<a href="#">1636530000</a>	Terminal markers, Terminal marker, 15 x 7 mm, Pitch in mm (P): 5.00 White	4008190297053	20 pc(s).
ZGB 30	<a href="#">1611930000</a>	Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 5.00 White	4008190002251	20 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).