

WDU 2.5N ZQV

Weidmüller Interface GmbH & Co. KG
Klingenbergsstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image

To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

General ordering data

Version	Feed-through terminal block, Screw connection, dark beige, 2.5 mm ² , 24 A, 500 V, Number of connections: 2
Order No.	1040800000
Type	WDU 2.5N ZQV
GTIN (EAN)	4008190964276
Qty.	100 items

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Technical data

Approvals

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RoHS Conform

Dimensions and weights

Depth	37 mm	Depth (inches)	1.4567 inch
Height	44 mm	Height (inches)	1.7323 inch
Width	5.1 mm	Width (inches)	0.2008 inch
Net weight	5.27 g		

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-50 °C...85 °C
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	130 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%
Product Carbon Footprint	Cradle to gate 0,065 kg CO2 eq.

Material data

Basic material	Wemid	Colour	dark beige
UL 94 flammability rating	V-0		

System specifications

Version	Screw connection, for plug-in cross-connector	End cover plate required	Yes
Number of potentials	1	Number of levels	1
Number of clamping points per level	2	Number of potentials per tier	1
Levels cross-connected internally	No	PE connection	No
Mounting rail	TS 35	N-function	No
PE function	No	PEN function	No

2 clampable conductors (H05V/H07V) with equal cross-section (rated connection)

Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max.	1.5 mm ²	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min.	0.5 mm ²
Wire cross-section, finely stranded, two clampable wires, max.	1.5 mm ²	Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm ²

Additional technical data

Open sides	right	Number of similar terminals	1
Explosion-tested version	No	Type of mounting	Snap-on

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CSA rating data

Wire cross section max. (CSA)	12 AWG	Voltage size C (CSA)	300 V
Current size C (CSA)	25 A	Certificate No. (CSA)	12400-391
Wire cross section min. (CSA)	26 AWG		

Conductors for clamping (additional connection)

Connection type, additional connection Screw connection

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	A3	Wire connection cross section AWG, max.	AWG 12
Connection direction	on side	Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.4 Nm	Stripping length	10 mm
Type of connection	Screw connection	Number of connections	2
Clamping range, max.	4 mm ²	Clamping range, min.	0.05 mm ²
Clamping screw	M 2.5	Blade size	0.6 x 3.5 mm
Wire connection cross section AWG, min.	AWG 30	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.05 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	2.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.05 mm ²	Wire connection cross section, finely stranded, max.	4 mm ²
Wire connection cross section, finely stranded, min.	0.05 mm ²	Connection cross-section, stranded, max.	4 mm ²
Connection cross-section, stranded, min.	0.05 mm ²	Twin wire-end ferrules, max.	1.5 mm ²
Twin wire-end ferrules, min.	0.5 mm ²	Torque level with DMS electric screwdriver	1
Wire connection cross-section, solid core, max.	4 mm ²	Wire connection cross-section, solid core, min.	0.05 mm ²
Connection cross-section, finely stranded, min.	0.05 mm ²		

General

Wire connection cross section AWG, max.	AWG 12	Wire connection cross section AWG, min.	AWG 30
Standards	IEC 60947-7-1	Mounting rail	TS 35

Rating data

Rated cross-section	2.5 mm ²	Rated voltage	500 V
Rated DC voltage	500 V	Nominal current	24 A
Current at maximum wires	32 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	1.33 mΩ	Rated impulse withstand voltage	6 kV
Power loss in accordance with IEC 60947-7-x	0.77 W	Pollution severity	3

Classifications

ETIM 8.0	EC000897	ETIM 9.0	EC000897
ETIM 10.0	EC000897	ECLASS 14.0	27-25-01-01
ECLASS 15.0	27-25-01-01		

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Drawings

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Accessories

End plates and partition plates



Partition plates and end plates are essential accessories for terminal blocks. Partition plates provide optical and electrical separation of different potentials and functional groups, increasing safety and ensuring a clear structure inside the control cabinet. End plates close the terminal block row on the sides, protect against contact with live parts, and ensure a clean, stable finish. Both components are precisely matched to the respective Weidmüller terminal block series, contributing to safe, compliant, and professional wiring.

General ordering data

Type	WAP WDU2.5N/4N	Version
Order No.	1060000000	End plate for terminals, dark beige, Height: 44 mm, Width: 1.5 mm,
GTIN (EAN)	4008190149154	V-0, Wemid, Snap-on: No
Qty.	50 ST	
Type	WAP WDU2.5N/4N BL	Version
Order No.	1060080000	End plate for terminals, blue, Height: 44 mm, Width: 1.5 mm, V-0,
GTIN (EAN)	4008190097172	Wemid, Snap-on: No
Qty.	50 ST	

Testadapter and testsockets



Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

General ordering data

Type	WTA 1 WDU1.5	Version
Order No.	1632290000	Test adapter (terminal), 1.5 mm ² , 250 V, 6 A
GTIN (EAN)	4008190257361	
Qty.	25 ST	
Type	WTA 1/ZA WDU1.5	Version
Order No.	1632300000	Test adapter (terminal), 1.5 mm ² , 250 V, 6 A
GTIN (EAN)	4008190257354	
Qty.	25 ST	

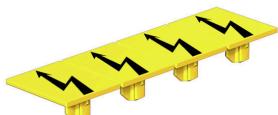
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Accessories

Warning cover

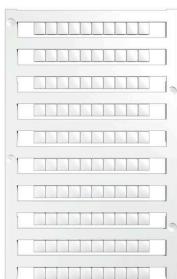


Warning covers with a flash symbol provide more safety for man and machine. They are used where external voltage must be indicated within the application.

General ordering data

Type	WAD 4 WS	Version
Order No.	1072100000	Terminal cover, white, PA 66, Height: 19.8 mm, Width: 4.5 mm,
GTIN (EAN)	4008190446116	Depth: 9.6 mm, V-2
Qty.	50 ST	
Type	WAD 4 GE BED	Version
Order No.	1072000000	Terminal cover, yellow, PA 66, Height: 19.8 mm, Width: 4.5 mm,
GTIN (EAN)	4008190446109	Depth: 9.6 mm, V-2
Qty.	50 ST	

Blank



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

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	DEK 5/5 MC NE WS	Version
Order No.	1609801044	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190397111	Weidmueller, white
Qty.	1000 ST	
Type	WS 12/5 MC NE WS	Version
Order No.	1609860000	WS, Terminal marker, 12 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,
GTIN (EAN)	4008190203481	Allen-Bradley, white
Qty.	720 ST	

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Marker holder



The marker holder offer the possibility of additional mounting of standard markers with a pitch of 5 or 5.1 mm. The angled holders can be optionally snapped together and could be mounted in all standard marking channels of the Klippon® Connect modular terminal blocks. Fitting marker types could be found under the respective accessories of the designation marking holder.

General ordering data

Type	BZT 1 WS 10/5	Version
Order No.	1805490000	Accessories, Marker holder
GTIN (EAN)	4032248270231	
Qty.	100 ST	
Type	BZT 1 ZA WS 10/5	Version
Order No.	1805520000	Accessories, Marker holder
GTIN (EAN)	4032248270248	
Qty.	100 ST	

WS 12/5



WS/ DEK

MultiMark terminal markers use an innovative composite material made from two components. The hard base contour of the marker snaps securely into the connector. The elastic surface finish makes the marker easy to mount. This specially punched material enables the strips to be stretched to accommodate the slight variations in spacing that tend to add up, especially with long terminal blocks. Another advantage: the excellent printability of the surface material guarantees durable and wear-resistant labelling. A print resolution of 300 dpi also produces a very legible script.

Your benefits with MultiMark

- Firm hold and durable printing
- Continuous strips save installation time
- Easy mounting thanks to an innovative composite material
- Large label field for optimal legibility
- High flexibility thanks to manufacturer independence

General ordering data

Type	WS 12/5 MM WS	Version
Order No.	2007190000	WS, Terminal marker, 12 x 5 mm, Weidmueller, white
GTIN (EAN)	4050118392036	
Qty.	800 ST	

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Accessories

Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

General ordering data

Type	ZQV 2.5N/10	Version
Order No.	1527690000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: 10, Pitch in mm (P): 5.10, Insulated: Yes, Width: 48.7 mm
GTIN (EAN)	4050118447989	
Qty.	20 ST	
Type	ZQV 2.5N/10 BL	Version
Order No.	1527880000	Cross-connector (terminal), Plugged, blue, 24 A, Number of poles: 10, Pitch in mm (P): 5.10, Insulated: Yes, Width: 48.7 mm
GTIN (EAN)	4050118448573	
Qty.	20 ST	
Type	ZQV 2.5N/10 RD	Version
Order No.	2108910000	Cross-connector (terminal), Plugged, red, 24 A, Number of poles: 10, Pitch in mm (P): 5.10, Insulated: Yes, Width: 48.7 mm
GTIN (EAN)	4050118486018	
Qty.	20 ST	
Type	ZQV 2.5N/2	Version
Order No.	1527540000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: 2, Pitch in mm (P): 5.10, Insulated: Yes, Width: 7.9 mm
GTIN (EAN)	4050118448467	
Qty.	60 ST	
Type	ZQV 2.5N/2 BL	Version
Order No.	1527740000	Cross-connector (terminal), Plugged, blue, 24 A, Number of poles: 2, Pitch in mm (P): 5.10, Insulated: Yes, Width: 7.9 mm
GTIN (EAN)	4050118448658	
Qty.	60 ST	
Type	ZQV 2.5N/2 RD	Version
Order No.	2108470000	Cross-connector (terminal), Plugged, red, 24 A, Number of poles: 2, Pitch in mm (P): 5.10, Insulated: Yes, Width: 7.9 mm
GTIN (EAN)	4050118448542	
Qty.	60 ST	
Type	ZQV 2.5N/20	Version
Order No.	1527720000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: 20, Pitch in mm (P): 5.10, Insulated: Yes, Width: 102 mm
GTIN (EAN)	4050118447972	
Qty.	20 ST	
Type	ZQV 2.5N/20 BL	Version
Order No.	1527890000	Cross-connector (terminal), Plugged, blue, 24 A, Number of poles: 20, Pitch in mm (P): 5.10, Insulated: Yes, Width: 102 mm
GTIN (EAN)	4050118448566	
Qty.	20 ST	
Type	ZQV 2.5N/20 RD	Version
Order No.	2108920000	Cross-connector (terminal), Plugged, red, 24 A, Number of poles: 20, Pitch in mm (P): 5.10, Insulated: Yes, Width: 102 mm
GTIN (EAN)	4050118485899	
Qty.	20 ST	
Type	ZQV 2.5N/3	Version
Order No.	1527570000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: 3, Pitch in mm (P): 5.10, Insulated: Yes, Width: 13 mm
GTIN (EAN)	4050118448450	
Qty.	60 ST	

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Type	ZQV 2.5N/3 BL	Version
Order No.	1527770000	Cross-connector (terminal), Plugged, blue, 24 A, Number of poles: 3,
GTIN (EAN)	4050118448641	Pitch in mm (P): 5.10, Insulated: Yes, Width: 13 mm
Qty.	60 ST	
Type	ZQV 2.5N/3 RD	Version
Order No.	2108690000	Cross-connector (terminal), Plugged, red, 24 A, Number of poles: 3,
GTIN (EAN)	4050118448535	Pitch in mm (P): 5.10, Insulated: Yes, Width: 13 mm
Qty.	60 ST	
Type	ZQV 2.5N/4	Version
Order No.	1527590000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:
GTIN (EAN)	4050118448443	4, Pitch in mm (P): 5.10, Insulated: Yes, Width: 18.1 mm
Qty.	60 ST	
Type	ZQV 2.5N/4 BL	Version
Order No.	1527780000	Cross-connector (terminal), Plugged, blue, 24 A, Number of poles: 4,
GTIN (EAN)	4050118448634	Pitch in mm (P): 5.10, Insulated: Yes, Width: 18.1 mm
Qty.	60 ST	
Type	ZQV 2.5N/4 RD	Version
Order No.	2108700000	Cross-connector (terminal), Plugged, red, 24 A, Number of poles: 4,
GTIN (EAN)	4050118448528	Pitch in mm (P): 5.10, Insulated: Yes, Width: 18.1 mm
Qty.	60 ST	
Type	ZQV 2.5N/5	Version
Order No.	1527620000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:
GTIN (EAN)	4050118448436	5, Pitch in mm (P): 5.10, Insulated: Yes, Width: 23.2 mm
Qty.	20 ST	
Type	ZQV 2.5N/5 BL	Version
Order No.	1527790000	Cross-connector (terminal), Plugged, blue, 24 A, Number of poles: 5,
GTIN (EAN)	4050118448627	Pitch in mm (P): 5.10, Insulated: Yes, Width: 23.2 mm
Qty.	20 ST	
Type	ZQV 2.5N/5 RD	Version
Order No.	2108710000	Cross-connector (terminal), Plugged, red, 24 A, Number of poles: 5,
GTIN (EAN)	4050118448511	Pitch in mm (P): 5.10, Insulated: Yes, Width: 23.2 mm
Qty.	20 ST	
Type	ZQV 2.5N/50	Version
Order No.	1527730000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:
GTIN (EAN)	4050118411362	50, Pitch in mm (P): 5.10, Insulated: Yes, Width: 255 mm
Qty.	5 ST	
Type	ZQV 2.5N/50 BL	Version
Order No.	1527920000	Cross-connector (terminal), Plugged, blue, 24 A, Number of poles: 50,
GTIN (EAN)	4050118448559	Pitch in mm (P): 5.10, Insulated: Yes, Width: 255 mm
Qty.	5 ST	
Type	ZQV 2.5N/50 RD	Version
Order No.	2109000000	Cross-connector (terminal), Plugged, red, 24 A, Number of poles: 50,
GTIN (EAN)	4050118486001	Pitch in mm (P): 5.10, Insulated: Yes, Width: 255 mm
Qty.	5 ST	
Type	ZQV 2.5N/6	Version
Order No.	1527630000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:
GTIN (EAN)	4050118448429	6, Pitch in mm (P): 5.10, Insulated: Yes, Width: 28.3 mm
Qty.	20 ST	
Type	ZQV 2.5N/6 BL	Version
Order No.	1527820000	Cross-connector (terminal), Plugged, blue, 24 A, Number of poles: 6,
GTIN (EAN)	4050118448610	Pitch in mm (P): 5.10, Insulated: Yes, Width: 28.3 mm
Qty.	20 ST	

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Type	ZQV 2.5N/6 RD	Version
Order No.	2108720000	Cross-connector (terminal), Plugged, red, 24 A, Number of poles: 6,
GTIN (EAN)	4050118448504	Pitch in mm (P): 5.10, Insulated: Yes, Width: 28.3 mm
Qty.	20 ST	
Type	ZQV 2.5N/7	Version
Order No.	1527640000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:
GTIN (EAN)	4050118448412	7, Pitch in mm (P): 5.10, Insulated: Yes, Width: 33.4 mm
Qty.	20 ST	
Type	ZQV 2.5N/7 BL	Version
Order No.	1527830000	Cross-connector (terminal), Plugged, blue, 24 A, Number of poles: 7,
GTIN (EAN)	4050118448603	Pitch in mm (P): 5.10, Insulated: Yes, Width: 33.4 mm
Qty.	20 ST	
Type	ZQV 2.5N/7 RD	Version
Order No.	2108810000	Cross-connector (terminal), Plugged, red, 24 A, Number of poles: 7,
GTIN (EAN)	4050118448498	Pitch in mm (P): 5.10, Insulated: Yes, Width: 33.4 mm
Qty.	20 ST	
Type	ZQV 2.5N/8	Version
Order No.	1527670000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:
GTIN (EAN)	4050118448405	8, Pitch in mm (P): 5.10, Insulated: Yes, Width: 38.5 mm
Qty.	20 ST	
Type	ZQV 2.5N/8 BL	Version
Order No.	1527840000	Cross-connector (terminal), Plugged, blue, 24 A, Number of poles: 8,
GTIN (EAN)	4050118448597	Pitch in mm (P): 5.10, Insulated: Yes, Width: 38.5 mm
Qty.	20 ST	
Type	ZQV 2.5N/8 RD	Version
Order No.	2108870000	Cross-connector (terminal), Plugged, red, 24 A, Number of poles: 8,
GTIN (EAN)	4050118448481	Pitch in mm (P): 5.10, Insulated: Yes, Width: 38.5 mm
Qty.	20 ST	
Type	ZQV 2.5N/9	Version
Order No.	1527680000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:
GTIN (EAN)	4050118447996	9, Pitch in mm (P): 5.10, Insulated: Yes, Width: 43.6 mm
Qty.	20 ST	
Type	ZQV 2.5N/9 BL	Version
Order No.	1527870000	Cross-connector (terminal), Plugged, blue, 24 A, Number of poles: 9,
GTIN (EAN)	4050118448580	Pitch in mm (P): 5.10, Insulated: Yes, Width: 43.6 mm
Qty.	20 ST	
Type	ZQV 2.5N/9 RD	Version
Order No.	2108900000	Cross-connector (terminal), Plugged, red, 24 A, Number of poles: 9,
GTIN (EAN)	4050118448474	Pitch in mm (P): 5.10, Insulated: Yes, Width: 43.6 mm
Qty.	20 ST	