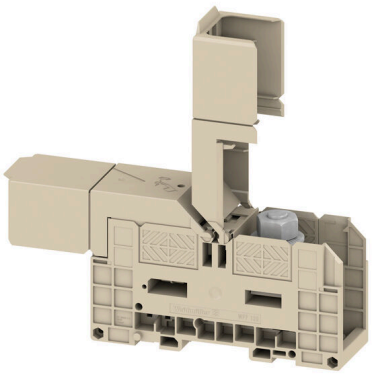
Data sheet

WFF 120/M12/AH

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 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	Bolt-type screw terminals, Feed-through terminal, Rated cross-section: 120 mm², Threaded stud connection
Order No.	1857540000
Type	WFF 120/M12/AH
GTIN (EAN)	4032248402595
Qty.	4 items

Data sheet

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURusEX)	E184763

Dimensions and weights

Depth	80.5 mm	Depth (inches)	3.1693 inch
Depth including DIN rail	88.5 mm	Height	229.5 mm
Height (inches)	9.0354 inch	Width	42 mm
Width (inches)	1.6535 inch	Net weight	330 g

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-5 °C...40 °C
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	120 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Material data

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

System specifications

End cover plate required	Yes	Number of potentials	1
Number of levels	1	Number of clamping points per level	2
Levels cross-connected internally	No	PE connection	No
Mounting rail	TS 35		

Additional technical data

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

CSA rating data

Wire cross section max. (CSA)	250 kcmil	Voltage size C (CSA)	600 V
Current size C (CSA)	310 A	Certificate No. (CSA)	200039-1244019
Wire cross section min. (CSA)	10 AWG		

Conductors for clamping (rated connection)

Cable lug to DIN 46234	6...150 mm²	Cable lug to DIN 46235	16...150 mm²
Wire connection cross section AWG, max.	kcmil 250	Connection direction	on side
Tightening torque, max.	20 Nm	Tightening torque, min.	10 Nm
Type of connection	Threaded stud connection	Number of connections	2

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Technical data

Clamping range, max.	150 mm²	Clamping range, min.	6 mm²
Wire connection cross section AWG, min.	AWG 8	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	6 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	6 mm²	Wire connection cross section, finely stranded, max.	150 mm²
Wire connection cross section, finely stranded, min.	6 mm²	Connection cross-section, stranded, max.	150 mm²
Connection cross-section, stranded, min.	6 mm²	Stud size for spade connection	M 12
Wire connection cross-section, solid core, max.	150 mm²	Wire connection cross-section, solid core, min.	6 mm²
Connection cross-section, finely stranded, min.	6 mm²	2 x cable lugs DIN 46 235	16…120 mm²
2 x cable lugs DIN 46 234	6 to 120 mm²		

Dimensions

TS 15 offset	13.5 mm	TS 35 offset	66 mm

General

Wire connection cross section AWG, max.	kcmil 250	Wire connection cross section AWG, min.	AWG 8
Standards	IEC 60947-7-1	Mounting rail	TS 35

Rating data

Rated cross-section	120 mm²	Rated voltage	1000 V
Rated DC voltage	1500 V	Nominal current	269 A
Current at maximum wires	309 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	0.12 mΩ	Rated impulse withstand voltage	6 kV
Power loss in accordance with IEC 60947-7-x	8.61 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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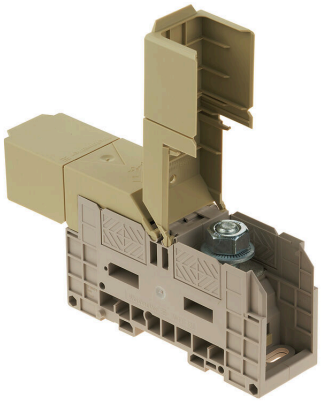
Drawings



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Accessories

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	WQL 2 WFF120	Version
Order No.	1065100000	Bolt-type screw terminals, Cross-connector, Number of poles: 2
GTIN (EAN)	4008190133771	
Qty.	5 ST	

Type	WQL 3 WFF120	Version
Order No.	1065600000	Bolt-type screw terminals, Cross-connector, Number of poles: 3
GTIN (EAN)	4008190021641	
Qty.	5 ST	

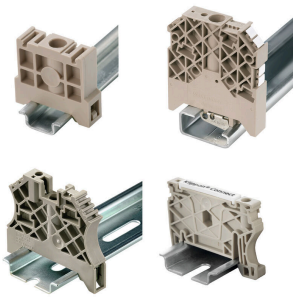
Additional connection

The additional connection enables a separate voltage tap. This can be used, for example, for the emergency power supply before the main switch or simply as an additional connection within the application.

General ordering data

Type	WZAF 120	Version
Order No.	1066300000	Auxiliary connection (terminal)
GTIN (EAN)	4008190024642	
Qty.	10 ST	

End bracket



Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

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Accessories

General ordering data

Type	WEW 35/1	Version
Order No.	1059000000	End bracket, dark beige, TS 35, V-2, Wemid, Width: 12 mm, 100 °C
GTIN (EAN)	4008190172282	
Qty.	50 ST	

Protection against contact

Our systems for touch protection ensure greater safety in your cabinet. They provide protection against electric shock caused by accidental contact with live parts due to operation or faults.

General ordering data

Type	WAP WFF120	Version
Order No.	1073000000	Bolt-type screw terminals, Cover plate, dark beige, 2 mm
GTIN (EAN)	4008190475260	
Qty.	20 ST	

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	WTW WFF120	Version
Order No.	1067300000	Bolt-type screw terminals, Partition plate, grey, 2 mm
GTIN (EAN)	4008190093037	
Qty.	10 ST	

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Accessories

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General ordering data

Type	WAH 120	Version
Order No.	1064660000	Bolt-type screw terminals, Hood, beige, 41 mm
GTIN (EAN)	4008190100797	
Qty.	20 ST	
Type	WAH 120/KURZ	Version
Order No.	1070460000	Bolt-type screw terminals, Hood, beige, 40.6 mm
GTIN (EAN)	4008190191047	
Qty.	10 ST	
Type	WAH 120 BL	Version
Order No.	1064680000	Bolt-type screw terminals, Hood, blue, 41 mm
GTIN (EAN)	4008190063931	
Qty.	20 ST	

Mounting support

We offer a broad portfolio of mounting support for easy handling and supplementation of our products. From various tools to insulating sleeves and various screws, our components are matched to each other down to the last detail and thus facilitate assembly in compliance with the respective standards and protective regulations.

General ordering data

Type	CPSB M10	Version
Order No.	0156400000	Bolt-type screw terminals, Copper-plated aluminium washer
GTIN (EAN)	4008190049935	
Qty.	50 ST	

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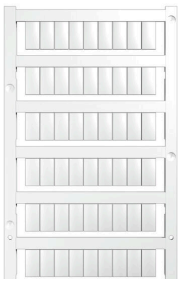
General ordering data

Type	SMSE WF10/2XM6	Version
Order No.	1868880000	Bolt-type screw terminals, Busbar, Number of poles:
GTIN (EAN)	4032248499755	
Qty.	10 ST	

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 PrintJet CONNECT oder/or Plotter is possible.
- Can be fitted in strips or individually
- Markers in proven MultiCard format

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	WS 12/6.5 MC NE WS	Version
Order No.	1609920000	WS, Terminal marker, 12 x 6.5 mm, Pitch in mm (P): 6.50
GTIN (EAN)	4008190203511	Weidmueller, Allen-Bradley, white
Qty.	540 ST	

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Custom printing

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

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General ordering data

Type	WS 12/6.5 MC SDR	Version
Order No.	1609930000	WS, Terminal marker, 12 x 6.5 mm, Pitch in mm (P): 6.50
GTIN (EAN)	4008190456665	Weidmueller, Allen-Bradley, To customer specification
Qty.	108 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	

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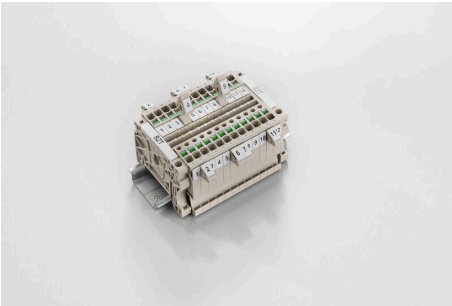
Accessories

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 snaped 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	

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	PS 4 F.STB 4	Version
Order No.	0299600000	Test adapter (terminal), 230 V
GTIN (EAN)	4008190074043	
Qty.	20 ST	

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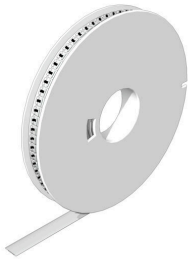
Accessories

WS 12/6.5



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 12/6.5 MM WS	Version
Order No.	2619930000	WS, Terminal marker, 12 x 6.5 mm, Weidmueller, white
GTIN (EAN)	4050118626155	
Qty.	600 ST	