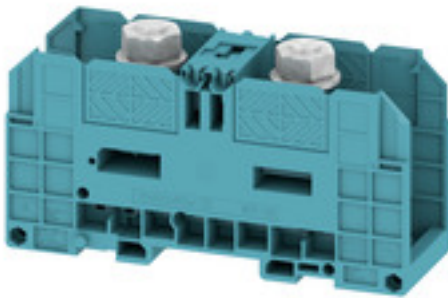


**WFF 120 BL****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

The comprehensive range of stud terminals ensures secure connections for all power transmission applications. Connections range from 10 mm<sup>2</sup> to 300 mm<sup>2</sup>. The connectors are attached to the threaded pins using crimped cable lugs and each connection is secured by tightening the hexagon nut. Stud terminals with threaded pins from M5 to M16 can be used according to the wire cross-section.

**General ordering data**

|            |   |
|------------|---|
| Version    | Bolt-type screw terminals, Feed-through terminal, Rated cross-section: 120 mm <sup>2</sup> , Threaded stud connection |
| Order No.  | <a href="#">1028580000</a>  |
| Type       | WFF 120 BL  |
| GTIN (EAN) | 4008190121808   |
| Qty.       | 5 pc(s).  |

## WFF 120 BL

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## Technical data

## Dimensions and weights

|                          |            |                |            |
|--------------------------|------------|----------------|------------|
| Depth                    | 88.5 mm    | Depth (inches) | 3.484 inch |
| Depth including DIN rail | 88.5 mm    | Height         | 132 mm     |
| Height (inches)          | 5.197 inch | Width          | 42 mm      |
| Width (inches)           | 1.654 inch | Net weight     | 243.12 g   |

## Temperatures

|                                  |                |                                  |   |
|----------------------------------|----------------|----------------------------------|---|
| Storage temperature              |                | Operating temperature range      | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity |
|                                  | -25 °C...55 °C |                                  |   |
| Continuous operating temp., min. | -50 °C         | Continuous operating temp., max. | 120 °C  |

## Material data

|                           |       |        |      |
|---------------------------|-------|--------|------|
| Material                  | Wemid | Colour | blue |
| UL 94 flammability rating | V-0   |        |      |

## Rating data IECEx/ATEX

|                             |   |                                 |                     |
|-----------------------------|---|---------------------------------|---------------------|
| Certificate No. (IECEX)     | IECEXULD15.0004U  | Max. voltage (IECEX)            | 1100 V              |
| Current (IECEX)             | 269 A   | Wire cross section max. (IECEX) | 120 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 eb II C Gb       |

## System specifications

|                                     |    |                                   |       |
|-------------------------------------|----|-----------------------------------|-------|
| End cover plate required            | No | Number of levels                  | 1     |
| Number of clamping points per level | 2  | Levels cross-connected internally | No    |
| PE connection                       | No | Rail                              | TS 35 |

## Additional technical data

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

## CSA rating data

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

## Conductors for clamping (rated connection)

|                           |                          |                                |                          |
|---------------------------|--------------------------|--------------------------------|--------------------------|
| 2 x cable lugs DIN 46 234 | 6 to 120 mm <sup>2</sup> | 2 x cable lugs DIN 46 235      | 16...120 mm <sup>2</sup> |
| Cable lug to DIN 46234    | 6...150 mm <sup>2</sup>  | Cable lug to DIN 46235         | 16...150 mm <sup>2</sup> |
| Clamping range, max.      | 150 mm <sup>2</sup>      | Clamping range, min.           | 6 mm <sup>2</sup>        |
| Number of connections     | 2                        | Stud size for spade connection | M 10                     |
| Tightening torque, max.   | 20 Nm                    | Tightening torque, min.        | 10 Nm                    |
| Type of connection        | Threaded stud connection |                                |                          |

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## Technical data

## General

|      |       |
|------|-------|
| Rail | TS 35 |
|------|-------|

## Rating data

|                                 |                     |  |         |
|---------------------------------|---------------------|--|---------|
| Rated cross-section             | 120 mm <sup>2</sup> | Rated voltage                                | 1,000 V |
| Rated DC voltage                | 1,500 V             | Rated current                                | 269 A   |
| Current at maximum wires        | 309 A               | Volume resistance according to IEC 60947-7-x | 0.12 mΩ |
| Rated impulse withstand voltage | 8 kV                | Power loss in accordance with IEC 60947-7-x  | 8.61 W  |
| Pollution severity              | 3                   |  |         |

## UL rating data

|   |        |   |           |
|---|--------|---|-----------|
| Certificate No. (UR)                    | E60693 | Conductor size Factory wiring max. (UR) | 250 kcmil |
| Conductor size Factory wiring min. (UR) | 10 AWG | Conductor size Field wiring max. (UR)   | 250 kcmil |
| Conductor size Field wiring min. (UR)   | 10 AWG | Current size C (UR)                     | 310 A     |
| Voltage size C (UR)                     | 1000 V |   |           |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0    | EC000897    |
| ETIM 8.0    | EC000897    | ETIM 9.0    | EC000897    |
| ECLASS 9.0  | 27-14-11-20 | ECLASS 9.1  | 27-14-11-20 |
| ECLASS 10.0 | 27-14-11-20 | ECLASS 11.0 | 27-14-11-20 |
| ECLASS 12.0 | 27-14-11-20 | ECLASS 13.0 | 27-25-01-01 |

## Approvals

Approvals



|                           |            |
|---------------------------|------------|
| ROHS                      | Conform    |
| UL File Number Search     | UL Website |
| Certificate No. (UR)      | E60693     |
| Certificate No. (cURusEX) | E184763    |

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Downloads**

|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">Attestation of Conformity</a>                    |
|   | <a href="#">UKCA Ex Attestation of Conformity</a>            |
|   | <a href="#">CB Certificate</a>                               |
|   | <a href="#">DNVGL certificate</a>                            |
|   | <a href="#">POLSKIREJ certificate</a>                        |
|   | <a href="#">CCC Ex Certificate</a>                           |
|   | <a href="#">ATEX Certificate</a>                             |
|   | <a href="#">IECEX Certificate</a>                            |
|   | <a href="#">UKCA Ex Certificate</a>                          |
|   | <a href="#">CE Declaration of Conformity</a>                 |
|   | <a href="#">UKCA declaration of conformity</a>               |
| Engineering Data                            | <a href="#">Confirmation of Standards EN 45545-2_2020-10</a> |
|   | <a href="#">CAD data – STEP</a>                              |
| Engineering Data                            | <a href="#">Zuken E3.S</a>                                   |
| Product Change Notification                 | <a href="#">PCN WFF</a>                                      |
| User Documentation                          | <a href="#">StorageConditionsTerminalBlocks</a>              |
|   | <a href="#">WFF range for 1500 VDC applications</a>          |
|   | <a href="#">DIRECT MOUNTING WFF TERMINAL BLOCKS</a>          |
|   | <a href="#">NTI WFF 120</a>                                  |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                     |
| Brochures                                   |  |

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## Drawings



## WFF 120 BL

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## Accessories

## Standard



Screwable cross-connections are easy to mount and de mount. Thanks to the big contact surface, even high currents can be transmitted with maximum contact reliability.

## General ordering data

|            |                            |  |
|------------|----------------------------|--|
| Type       | WQL 3 WFF120               | Version  |
| Order No.  | <a href="#">1065600000</a> | Bolt-type screw terminals, Cross-connector, Number of poles: 3 |
| GTIN (EAN) | 4008190021641              |  |
| Qty.       | 5 pc(s).                   |  |
| Type       | WQL 2 WFF120               | Version  |
| Order No.  | <a href="#">1065100000</a> | Bolt-type screw terminals, Cross-connector, Number of poles: 2 |
| GTIN (EAN) | 4008190133771              |  |
| Qty.       | 5 pc(s).                   |  |

## Protective covers



Protective covers or protective caps are attached to the respective connection area of the terminal blocks. They provide protection against electric shock caused by accidental contact with live parts due to operation or faults.

## General ordering data

|            |                            |  |
|------------|----------------------------|--|
| Type       | WAH 120                    | Version  |
| Order No.  | <a href="#">1064660000</a> | Bolt-type screw terminals, Hood, beige, 41 mm            |
| GTIN (EAN) | 4008190100797              |  |
| Qty.       | 20 pc(s).                  |  |
| Type       | WAH 120 BL                 | Version  |
| Order No.  | <a href="#">1064680000</a> | Bolt-type screw terminals, Hood, blue, 41 mm             |
| GTIN (EAN) | 4008190063931              |  |
| Qty.       | 20 pc(s).                  |  |
| Type       | WAH 120/KURZ               | Version  |
| Order No.  | <a href="#">1070460000</a> | Bolt-type screw terminals, Hood, beige, 40.6 mm          |
| GTIN (EAN) | 4008190191047              |  |
| Qty.       | 10 pc(s).                  |  |
| Type       | WAP WFF120                 | Version  |
| Order No.  | <a href="#">1073000000</a> | Bolt-type screw terminals, cover plate, dark beige, 2 mm |
| GTIN (EAN) | 4008190475260              |  |
| Qty.       | 20 pc(s).                  |  |

## WFF 120 BL

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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 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.  | <a href="#">1805490000</a> | Accessories, Marker holder |
| GTIN (EAN) | 4032248270231              |                            |
| Qty.       | 100 pc(s).                 |                            |
| Type       | BZT 1 ZA WS 10/5           | Version                    |
| Order No.  | <a href="#">1805520000</a> | Accessories, Marker holder |
| GTIN (EAN) | 4032248270248              |                            |
| Qty.       | 100 pc(s).                 |                            |

## WF / WFF-Series



A partition plate is used for the optical separation of circuits or used for electrical isolation from neighbouring cross-connectors. In contrast to the end plate, the contour can be larger than the adjacent terminal blocks. However, it should not be smaller, as otherwise the required clearance and creepage distances within the application can no longer be maintained.

## General ordering data

|            |                            |  |
|------------|----------------------------|--|
| Type       | WTW WFF120                 | Version  |
| Order No.  | <a href="#">1067300000</a> | Bolt-type screw terminals, Partition plate, grey, 2 mm |
| GTIN (EAN) | 4008190093037              |  |
| Qty.       | 10 pc(s).                  |  |

## WFF 120 BL

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## Accessories

## Custom printing



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 SDR           | Version   |
| Order No.  | <a href="#">1609930000</a> | 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 pc(s).                 |   |

## WF/WFF-Series



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.  | <a href="#">1066300000</a> | Auxiliary connection (terminal) |
| GTIN (EAN) | 4008190024642              |                                 |
| Qty.       | 10 pc(s).                  |                                 |



## WFF 120 BL

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## Accessories

## Miscellaneous



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.  | <a href="#">0156400000</a> | Bolt-type screw terminals, Copper-plated aluminium washer |
| GTIN (EAN) | 4008190049935              |   |
| Qty.       | 50 pc(s).                  |   |

## 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.  | <a href="#">2619930000</a> | WS, Terminal marker, 12 x 6.5 mm, Weidmueller, white |
| GTIN (EAN) | 4050118626155              |  |
| Qty.       | 600 pc(s).                 |  |

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## Accessories

## 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.  | <a href="#">1609801044</a> | Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190397111              | Weidmueller, white  |
| Qty.       | 1,000 pc(s).               |   |

## W-Series



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.

## General ordering data

|            |                            |  |
|------------|----------------------------|--|
| Type       | WEW 35/1                   | Version  |
| Order No.  | <a href="#">1059000000</a> | End bracket, Wemid, dark beige, Rail: TS 35, when screwed in |
| GTIN (EAN) | 4008190172282              |  |
| Qty.       | 50 pc(s).                  |  |

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## Accessories

## Step-down bridges



Reducing cross-connectors enable simple and fast connection of terminal blocks with different rated cross-sections.

## General ordering data

|            |                            |   |
|------------|----------------------------|---|
| Type       | SMSE WF10/2XM6             | Version   |
| Order No.  | <a href="#">1868880000</a> | Bolt-type screw terminals, Busbar, Number of poles: |
| GTIN (EAN) | 4032248499755              |   |
| Qty.       | 10 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 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.  | <a href="#">1609920000</a> | WS, Terminal marker, 12 x 6.5 mm, Pitch in mm (P): 6.50 |
| GTIN (EAN) | 4008190203511              | Weidmueller, Allen-Bradley, white                       |
| Qty.       | 540 pc(s).                 |   |