

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

#### **Product image**







The comprehensive range of stud terminals ensures secure connections for all power transmission applications. Connections range from 10 mm² to 300 mm². 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,<br>Rated cross-section: 35 mm², Threaded stud con-<br>nection |
|------------|---|
| Order No.  | <u>1780850000</u>   |
| Туре       | WF 6  |
| GTIN (EAN) | 4032248219339   |
| Qty.       | 25 ST   |



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# Technical data

| Approvals                           |                         |                                   |                |
|-------------------------------------|-------------------------|-----------------------------------|----------------|
| Approvais                           |                         |                                   |                |
| Approvals                           | 110                     | IZEMA CONTRACTOR                  | K              |
|                                     | CEGE                    | KEMA DI U                         | à              |
| ROHS                                | Conform                 |                                   |                |
| UL File Number Search               | UL Website              |                                   |                |
| Certificate No. (UR)                | E60693                  |                                   |                |
| Dimensions and weights              |                         |                                   |                |
| Depth                               | 54.5 mm                 | Depth (inches)                    | 2.1457 inch    |
| Height                              | 67 mm                   | Height (inches)                   | 2.6378 inch    |
| Width                               | 17.8 mm                 | Width (inches)                    | 0.7008 inch    |
| Net weight                          | 26.49 g                 |                                   |                |
| Temperatures                        |                         |                                   |                |
| Storage temperature                 | -25 °C55 °C             | Ambient temperature               | -5 °C40 °C     |
| Continuous operating temp., min.    | -50 °C                  | Continuous operating temp., max.  | 120 °C         |
|                                     |                         | continuous operating temp., max.  | 120 0          |
| Environmental Product Comp          | oliance                 |                                   |                |
| RoHS Compliance Status              | Compliant without exemp | otion                             |                |
| REACH SVHC                          | No SVHC above 0.1 wt%   |                                   |                |
| Material data                       |                         |                                   |                |
|                                     |                         |                                   |                |
| Material                            | Wemid                   | Colour                            | dark beige     |
| UL 94 flammability rating           | V-0                     |                                   |                |
| System specifications               |                         |                                   |                |
| Version                             | Single-stud terminals   | End cover plate required          | No             |
| Number of potentials                | 1                       | Number of levels                  | 1              |
| Number of clamping points per level | <br>1                   | Levels cross-connected internally | No             |
| PE connection                       | No                      | Rail                              | TS 35          |
| Additional technical data           |                         |                                   |                |
| Open sides                          | Open                    | Number of similar terminals       | 1              |
| Explosion-tested version            | No                      | Type of mounting                  | Snap-on        |
| CSA rating data                     |                         | 71 '9                             |                |
| COA rating trata                    |                         |                                   |                |
| Wire cross section max. (CSA)       | 2 AWG                   | Voltage size C (CSA)              | 1000 V         |
| Current size C (CSA)                | 150 A                   | Certificate No. (CSA)             | 200039-1244019 |
| Wire cross section min. (CSA)       | 14 AWG                  |                                   |                |
| Conductors for clamping (rat        | ed connection)          |                                   |                |
| Cable lug to DIN 46234              | 2.535 mm <sup>2</sup>   | Cable lug to DIN 46235            | 625 mm²        |
| Wire connection cross section AWG,  | AWG 2                   | Connection direction              | on side        |
|                                     |                         |                                   |                |

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Tightening torque, max.

Type of connection

6 Nm

Threaded stud connection

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Tightening torque, min.

Number of connections

3 Nm

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# **Technical data**

| Clamping range, max.                                 | 35 mm <sup>2</sup>  | Clamping range, min.                                 | 2.5 mm <sup>2</sup>       |
|--|---------------------|--|---------------------------|
| Wire connection cross section AWG, min.              | AWG 12              | Wire connection cross section, finely stranded, max. | 35 mm <sup>2</sup>        |
| Wire connection cross section, finely stranded, min. | 2.5 mm <sup>2</sup> | Connection cross-section, stranded, max.             | 35 mm²                    |
| Connection cross-section, stranded, m                | in. 2.5 mm²         | Stud size for spade connection                       | M 6                       |
| Wire connection cross-section, solid core, max.      | 35 mm²              | Wire connection cross-section, solid core, min.      | 2.5 mm <sup>2</sup>       |
| 2 x cable lugs DIN 46 235                            | 625 mm <sup>2</sup> | 2 x cable lugs DIN 46 234                            | 2.5 to 35 mm <sup>2</sup> |

#### General

| Wire connection cross section AWG, | AWG 2         | Wire connection cross section AWG, | AWG 12 |
|------------------------------------|---------------|------------------------------------|--------|
| max.                               |               | min.                               |        |
| Standards                          | IEC 60947-7-1 | Rail                               | TS 35  |

#### **Rating data**

| 35 mm <sup>2</sup> | Rated voltage                                    | 1000 V   |
|--------------------|--|--|
| 1000 V             | Voltage with epoxy resin partition plate         | 2300 V   |
| 125 A              | Current at maximum wires                         | 125 A  |
| IEC 60947-7-1      | Volume resistance according to IEC 60947-7-x     | 0.26 mΩ  |
| 8 kV               | Impulse voltage with epoxy resin partition plate | 12 kV  |
| 4.00 W             | Pollution severity                               | 3  |
|                    | 1000 V<br>125 A<br>IEC 60947-7-1                 | 1000 V Voltage with epoxy resin partition plate 125 A Current at maximum wires Volume resistance according to IEC 60947-7-x  8 kV Impulse voltage with epoxy resin partition plate |

#### **UL** rating data

| Conductor size Factory wiring | max. (UR) 2 AWG | Current size C (UR)                     | 115 A  |
|-------------------------------|-----------------|---|--------|
| Voltage size C (UR)           | 1000 V          | Conductor size Factory wiring min. (UR) | 14 AWG |
| Certificate No. (UR)          | E60693          | Conductor size Field wiring min. (UR)   | 14 AWG |
| Conductor size Field wiring m | ax (UR) 2 AWG   |   |        |

#### Classifications

| ETIM 6.0    | EC000897    | ETIM 7.0    | EC000897    |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC000897    | ETIM 9.0    | EC000897    |
| ETIM 10.0   | 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 | ECLASS 14.0 | 27-25-01-01 |
| ECLASS 15.0 | 27-25-01-01 |             |             |

# **Data sheet**





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# Drawings



# **Data sheet**

#### **WF 6**



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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**

| Туре              | WQL 2 WF6               | Version   |
|-------------------|-------------------------|---|
| Order No.         | 1780970000              | Bolt-type screw terminals, Cross-connector, Number of poles: 2          |
| GTIN (EAN)        | 4032248219407           |   |
| Qty.              | 5 ST                    |   |
|                   |                         |   |
| Туре              | WQL 3 WF6               | Version   |
| Type<br>Order No. | WQL 3 WF6<br>1780980000 | Version  Bolt-type screw terminals, Cross-connector, Number of poles: 3 |
|                   |                         |   |

#### WF/WFF-Series

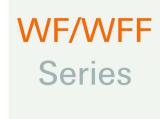
# WF/WFF Series

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**

| Туре       | WZAF 35           | Version                         |
|------------|-------------------|---------------------------------|
| Order No.  | <u>1070500000</u> | Auxiliary connection (terminal) |
| GTIN (EAN) | 4008190024512     |                                 |
| Qty.       | 10 ST             |                                 |

#### 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.

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## **Accessories**

#### **General ordering data**

| Туре       | WTW WF6           | Version  |
|------------|-------------------|--|
| Order No.  | <u>1781220000</u> | Bolt-type screw terminals, Partition plate, dark beige, 3 mm   |
| GTIN (EAN) | 4032248219377     |  |
| Qty.       | 20 ST             |  |
| Туре       | WTW WF6-WF12      | Version  |
| Order No.  | <u>1781240000</u> | Bolt-type screw terminals, Partition plate, dark beige, 2.5 mm |
| GTIN (EAN) | 4032248241156     |  |
| Qty.       | 20 ST             |  |
| Туре       | WTW WF6 2300      | Version  |
| Order No.  | <u>1781230000</u> | Bolt-type screw terminals, Partition plate, grey, 2 mm         |
| GTIN (EAN) | 4032248241125     |  |
| Qty.       | 20 ST             |  |

#### 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**

| Туре       | WEW 35/2      | Version  |
|------------|---------------|--|
| Order No.  | 1061200000    | End bracket, dark beige, TS 35, HB, Wemid, Width: 8 mm, 100 °C |
| GTIN (EAN) | 4008190030230 |  |
| Qty.       | 50 ST         |  |

#### **Cover profiles**



Cover profiles provide protection against external impact on functional areas of the terminal blocks or in combination with our support brackets for the entire terminal strip. They provide protection against electric shock caused by accidental contact with live parts due to operation or faults.

#### **General ordering data**

| Туре              | ADP WF6/WF8                   | Version  |
|-------------------|-------------------------------|--|
| Order No.         | <u>1780930000</u>             | Bolt-type screw terminals, Cover profile, Transparent, 1000 mm       |
| GTIN (EAN)        | 4032248241248                 |  |
| Qty.              | 1 M                           |  |
|                   |                               |  |
| Туре              | HA ADP WF6/WF10               | Version  |
| Type<br>Order No. | HA ADP WF6/WF10<br>1781050000 | Version Bolt-type screw terminals, Cover profile, dark beige, 2.2 mm |
|                   | · ·                           |  |

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## Accessories

#### **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 Zseries. 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**

| Туре              | WS 15/5 MC NE WS               | Version  |
|-------------------|--------------------------------|--|
| Order No.         | <u>1609880000</u>              | WS, Terminal marker, 15 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, |
| GTIN (EAN)        | 4008190203504                  | Allen-Bradley, white   |
| Qty.              | 480 ST                         |  |
|                   |                                |  |
| Туре              | DEK 5/6 MC NE WS               | Version  |
| Type<br>Order No. | DEK 5/6 MC NE WS<br>1609820000 | Version Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00  |
|                   | , '                            |  |

#### 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**

| Туре       | BZT 1 WS 10/5     | Version                    |
|------------|-------------------|----------------------------|
| Order No.  | 1805490000        | Accessories, Marker holder |
| GTIN (EAN) | 4032248270231     |                            |
| Qty.       | 100 ST            |                            |
| Туре       | BZT 1 ZA WS 10/5  | Version                    |
| Order No.  | <u>1805520000</u> | Accessories, Marker holder |
| GTIN (EAN) | 4032248270248     |                            |
| Qty.       | 100 ST            |                            |

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## **Accessories**

#### **DEK 5/6**



#### 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**

| Туре       | DEK 5/6 MM WS | Version  |
|------------|---------------|--|
| Order No.  | 2007120000    | Dekafix, Terminal marker, 5 x 6 mm, Weidmueller, white |
| GTIN (EAN) | 4050118392104 |  |
| Qty.       | 600 ST        |  |

#### Step-down bridges



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

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#### **General ordering data**

| Type       | WQL 2 WF6-10   | Version   |
|------------|----------------|---|
| Order No.  | 1806620000     | Bolt-type screw terminals, Cross-connector, Number of poles: 2      |
| GTIN (EAN) | 4032248294732  |   |
| Qty.       | 5 ST           |   |
| Туре       | WQL 3 WF6-10/2 | Version   |
| Order No.  | 1806640000     | Bolt-type screw terminals, Cross-connector, Number of poles: 3      |
| GTIN (EAN) | 4032248294695  |   |
| Qty.       | 5 ST           |   |
| Туре       | WQL 4 WF8-6/3  | Version   |
| Order No.  | 1904960000     | Bolt-type screw terminals, Cross-connector, Cross-connector, Number |
| GTIN (EAN) | 4032248756780  | of poles: 4   |
| Qty.       | 5 ST           |   |

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# **Accessories**

#### 35 mm<sup>2</sup>



The use of insulated connectors guarantees users consistent electrical connection quality in the long term.

- Wide range of insulated and non-insulated cable lugs and connectors
- Tubular cable lugs according to current market standards (Euroseries)
- Compression cable lugs acc. to DIN 46235
- Sheet metal cable lugs acc. to DIN 46234
- Insulated ring cable lugs to DIN 46237
- Insulated pin cable lugs to DIN 46231

#### **General ordering data**

| Туре                                     | KP-M6/-35   | Version   |
|--|---|---|
| Order No.                                | <u>1498020000</u>   | cable lug, terminal end,35 mm²                          |
| GTIN (EAN)                               | 4050118307313   |   |
| Qty.                                     | 100 ST  |   |
| Туре                                     | KQN-M6/-35  | Version   |
| Order No.                                | <u>1494170000</u>   | cable lug, terminal end,35 mm <sup>2</sup>              |
| GTIN (EAN)                               | 4050118304015   |   |
| Qty.                                     | 50 ST   |   |
|  |   |   |
| Туре                                     | KRN-M6/-35  | Version   |
| Type<br>Order No.                        | KRN-M6/-35<br>1496540000  | Version cable lug, terminal end,35 mm²,35 mm² - 35 mm²  |
|  | ,   |   |
| Order No.                                | 1496540000  |   |
| Order No.<br>GTIN (EAN)                  | 1496540000<br>4050118306156   |   |
| Order No. GTIN (EAN) Qty.                | 1496540000<br>4050118306156<br>100 ST                               | cable lug, terminal end,35 mm²,35 mm² - 35 mm²          |
| Order No. GTIN (EAN) Oty. Type           | 1496540000<br>4050118306156<br>100 ST<br>KRN-M6/-35 S               | cable lug, terminal end,35 mm²,35 mm² - 35 mm²  Version |
| Order No. GTIN (EAN) Qty. Type Order No. | 1496540000<br>4050118306156<br>100 ST<br>KRN-M6/-35 S<br>1494790000 | cable lug, terminal end,35 mm²,35 mm² - 35 mm²  Version |