Data sheet

# WF 6

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
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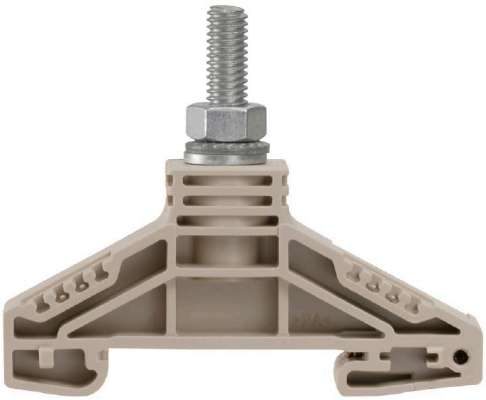
Germany

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: 35 mm², Threaded stud connection |
| Order No. | 1780850000 |
| Type | WF 6 |
| GTIN (EAN) | 4032248219339 |
| Qty. | 25 items |

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# Technical data

## Approvals

| | |
|---|---|
| Approvals | |
| 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 °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

| | | | |
|---|---|---|---|
| Version | Single-stud terminals | End cover plate required | No |
| Number of potentials | 1 | Number of levels | 1 |
| Number of clamping points per level | 1 | Levels cross-connected internally | No |
| PE connection | No | Mounting 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

| | | | |
|---|---|---|---|
| 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 (rated connection)

| | | | |
|---|---|---|---|
| Cable lug to DIN 46234 | 2.5...35 mm² | Cable lug to DIN 46235 | 6...25 mm² |
| Wire connection cross section AWG, max. | AWG 2 | Connection direction | on side |
| Tightening torque, max. | 6 Nm | Tightening torque, min. | 3 Nm |
| Type of connection | Threaded stud connection | Number of connections | 1 |

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# Technical data

| | | | |
|---|---|---|---|
| Clamping range, max. | 35 mm² | Clamping range, min. | 2.5 mm² |
| Wire connection cross section AWG, min. | AWG 12 | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 2.5 mm² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 2.5 mm² | Wire connection cross section, finely stranded, max. | 35 mm² |
| Wire connection cross section, finely stranded, min. | 2.5 mm² | Connection cross-section, stranded, max. | 35 mm² |
| Connection cross-section, stranded, min. | 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 mm² |
| Connection cross-section, finely stranded, min. | 2.5 mm² | 2 x cable lugs DIN 46 235 | 6...25 mm² |
| 2 x cable lugs DIN 46 234 | 2.5 to 35 mm² | | |

## General

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

## Rating data

| | | | |
|---|---|---|---|
| Rated cross-section | 35 mm² | Rated voltage | 1000 V |
| Rated DC voltage | 1000 V | Voltage with epoxy resin partition plate | 2300 V |
| Nominal current | 125 A | Current at maximum wires | 125 A |
| Standards | IEC 60947-7-1 | Volume resistance according to IEC 60947-7-x | 0.26 mΩ |
| Rated impulse withstand voltage | 8 kV | Impulse voltage with epoxy resin partition plate | 12 kV |
| Power loss in accordance with IEC 60947-7-x | 4.00 W | Pollution severity | 3 |

## 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 max. (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 | | |

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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 WF6 | Version |
| Order No. | 1780970000 | Bolt-type screw terminals, Cross-connector, Number of poles: 2 |
| GTIN (EAN) | 4032248219407 | |
| Qty. | 5 ST | |

| | | |
|---|---|---|
| Type | WQL 3 WF6 | Version |
| Order No. | 1780980000 | Bolt-type screw terminals, Cross-connector, Number of poles: 3 |
| GTIN (EAN) | 4032248241194 | |
| 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 35 | Version |
| Order No. | 1070500000 | Auxiliary connection (terminal) |
| GTIN (EAN) | 4008190024512 | |
| Qty. | 10 ST | |

## End plates and partition plates

End plates are fitted to the open side of the last modular terminal before the end bracket. The use of an end plate ensures the function of the modular terminal and the specified rated voltage. It guarantees protection against contact with live parts and makes the final terminal finger-proof.

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# Accessories

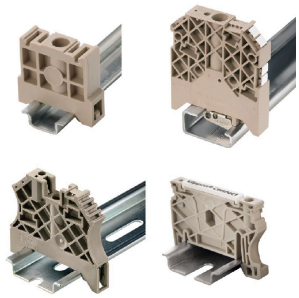
## General ordering data

| | | |
|---|---|---|
| Type | WTW WF6 | Version |
| Order No. | 1781220000 | Bolt-type screw terminals, Partition plate, dark beige, 3 mm |
| GTIN (EAN) | 4032248219377 | |
| Qty. | 20 ST | |

| | | |
|---|---|---|
| Type | WTW WF6-WF12 | Version |
| Order No. | 1781240000 | Bolt-type screw terminals, Partition plate, dark beige, 2.5 mm |
| GTIN (EAN) | 4032248241156 | |
| Qty. | 20 ST | |

| | | |
|---|---|---|
| Type | WTW WF6 2300 | Version |
| Order No. | 1781230000 | Bolt-type screw terminals, Partition plate, grey, 2 mm |
| GTIN (EAN) | 4032248241125 | |
| Qty. | 20 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.

## General ordering data

| | | |
|---|---|---|
| Type | 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 | |

## 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 | ADP WF6/WF8 | Version |
| Order No. | 1780930000 | Bolt-type screw terminals, Cover profile, Transparent, 1000 mm |
| GTIN (EAN) | 4032248241248 | |
| Qty. | 1 M | |

| | | |
|---|---|---|
| Type | HA ADP WF6/WF10 | Version |
| Order No. | 1781050000 | Bolt-type screw terminals, Cover profile, dark beige, 2.2 mm |
| GTIN (EAN) | 4032248241231 | |
| Qty. | 10 ST | |

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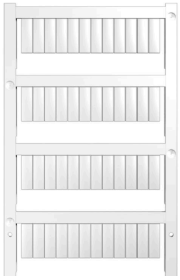
# Accessories

## Blank

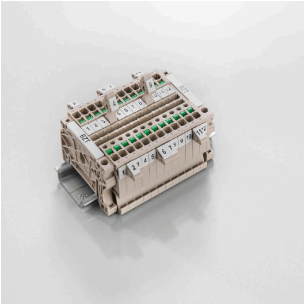


WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text.
WS markers are ideal for labels with long, 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 15/5 MC NE WS | Version |
| Order No. | 1609880000 | WS, Terminal marker, 15 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, |
| GTIN (EAN) | 4008190203504 | Allen-Bradley, white |
| Qty. | 480 ST | |
| Type | DEK 5/6 MC NE WS | Version |
| Order No. | 1609820000 | Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00 |
| GTIN (EAN) | 4008190203436 | Weidmueller, white |
| Qty. | 1000 ST | |

## 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 | |

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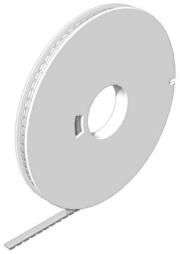
# Accessories

## 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

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

## Cross-connections

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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 | |
| Type | 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 | |
| Type | 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 mm²

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

| | | |
|---|---|---|
| Type | KP-M6/-35 | Version |
| Order No. | 1498020000 | cable lug, terminal end,35 mm² |
| GTIN (EAN) | 4050118307313 | |
| Qty. | 100 ST | |
| Type | KQN-M6/-35 | Version |
| Order No. | 1494170000 | cable lug, terminal end,35 mm² |
| GTIN (EAN) | 4050118304015 | |
| Qty. | 50 ST | |
| Type | KRN-M6/-35 | Version |
| Order No. | 1496540000 | cable lug, terminal end,35 mm²,35 mm² - 35 mm² |
| GTIN (EAN) | 4050118306156 | |
| Qty. | 100 ST | |
| Type | KRN-M6/-35 S | Version |
| Order No. | 1494790000 | cable lug, terminal end,35 mm²,35 mm² - 35 mm² |
| GTIN (EAN) | 4050118304466 | |
| Qty. | 25 ST | |