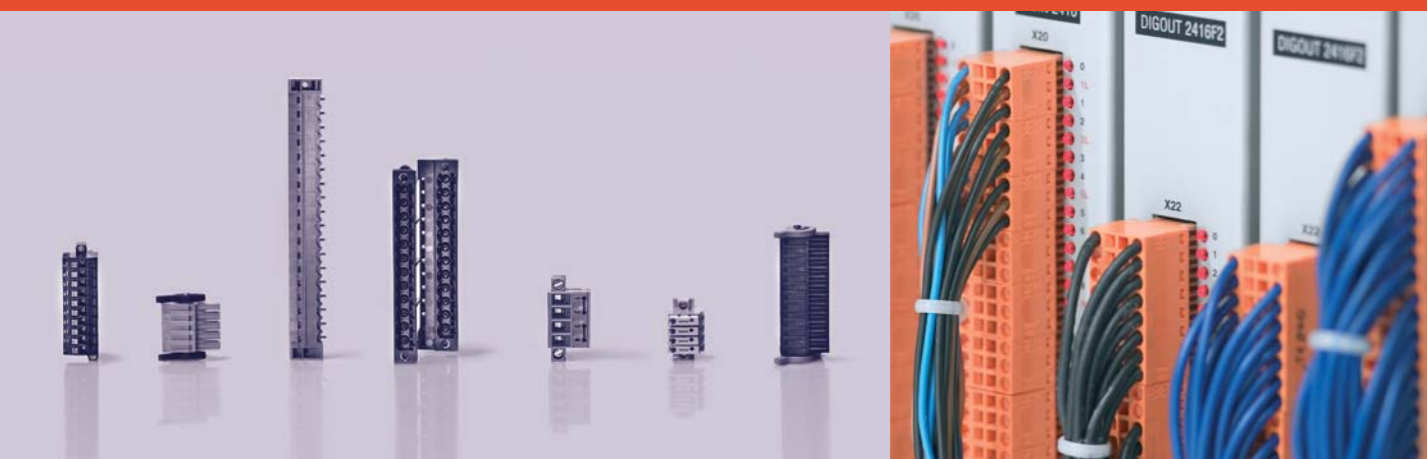
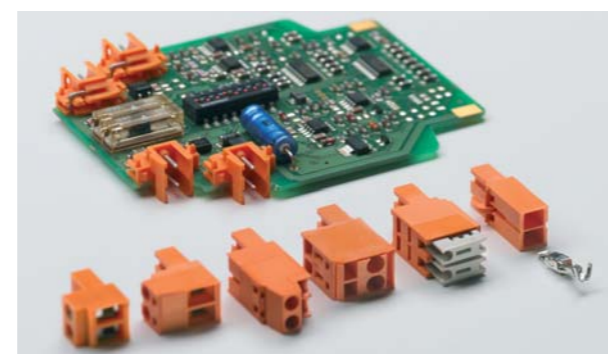


# PCB connectors

## Product overview



## The most important features



### The Minimate range

- Double-density 3.50 mm pitch
- Up to 10% less space needed on the PCB than 2.5 pitch connectors
- Up to 30% less space needed on the front plate than 2.5 pitch connectors
- Tension clamp connection for fast mounting
- Convenient connection for conductors up to 1 mm<sup>2</sup>/ AWG 16

### The Omnimate range

- The right pin header for every soldering method
- Choice of connection technology: clamping yoke, Push In, IDC, leaf spring, top connection, tension clamp, crimp
- Different cable entry and connection angles
- In 3.50, 3.81, 5.00, 5.08, 7.50 and 7.62 mm pitches

### The Unimate range

- Unique safety face range of two part connectors
- Fibreglass-reinforced PBT ensures great dimensional stability and a high temperature in constant use
- Choice of three connection technologies: clamping yoke, top or crimp connection

### The Powermate range

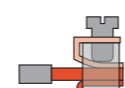
- Connector system for high currents up to 60A
- Protected against incorrect mating
- Multifunctional lock
- Contacts with steel surface spring (BUZ)

## Your choice of connection technology

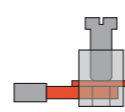
Each type of connection has its advantages. This is why we have not restricted ourselves to a particular system, offering instead the best solution for each application – e.g. the Omnimate range with seven different connection options.

### Connection technology

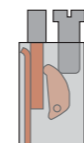
**Leaf spring** Internationally established, cost-effective technology with shallow height.



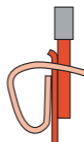
**Clamping yoke** Internationally established technology. Extremely resistant to vibrations, with high contact force, a large cross section and constantly low transition resistance.



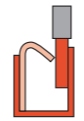
**Top connection** Internationally established technology for limited mounting space and simplified appliance design.



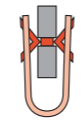
**Tension clamp** For fast, maintenance-free wiring and high contact safety.



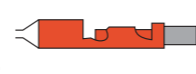
**Push In (direct-connection technology)** For ultra fast wiring and compact dimensions.



**IDC** Flexible with no need for stripping, allowing fast wiring. Prefabrication is possible.

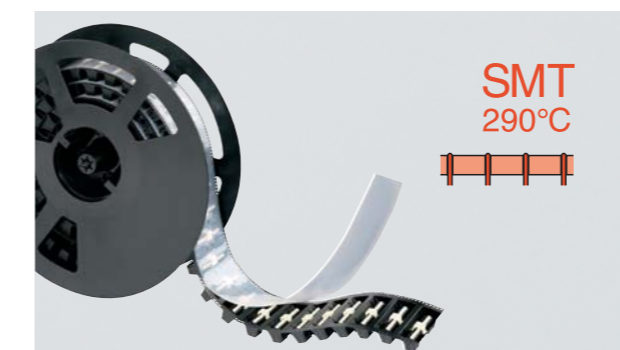


**Crimp** Flexible for pre-fabricated conductors.



## SL-SMT – cutting costs in the production process

Weidmüller has developed an innovative solution to optimise the SMT process workflow. The reflow-compatible SL-SMT pin connector can reduce your SMT production costs by as much as 30%.



### The most important features:

- Compatible with all reflow soldering processes
- Designed for automatic assembly in tape-on-reel or tray packaging
- Stable connection to the PCB with the aid of through-hole reflow process technology
- Double-sided PCB assembly possible

### BL I/O 3.5 - innovative solutions for I/O electronics

Weidmüller's new BL I/O 3.5 is compatible with any 3.5 mm pitch pin connector from the Omnimate range. The sensor/actuator socket connector is the innovative solution for decentralising I/O electronics, requiring up to 40% less wiring and 50% less space than conventional field wiring. What's more, flexibility in the design of the control electronics is guaranteed at all times.

### The most important features:

- Integrated cross connections distribute potential energy to I/O channels
- Quick and easy wiring
- Integrated LEDs display current status

## PCB components

### Impressive variety

Alongside a unique range of PCB connectors, Weidmüller has a variety of PCB terminals for your specific application.

You can find our whole product range in the latest Weidmüller catalogues. Ask your sales engineer or take a look at our website:

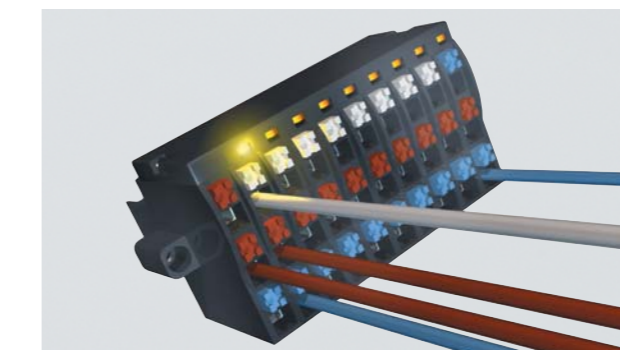
[www.weidmueller.com](http://www.weidmueller.com)

We can also supply product sketches as 2-D and 3-D data. Have a look at:

[www.partserver.com](http://www.partserver.com)

Do you want to optimise your production workflow for automatic PCB assembly? Then you've come to the right place!

[www.smt-technology.com](http://www.smt-technology.com)



[www.weidmueller.com](http://www.weidmueller.com)

Argentina	Indonesia	Saudi Arabia
Australia	Iran	Serbia/
Austria	Ireland	Montenegro
Bahrain	Israel	Singapore
Belarus	Italy	Slovakia
Belgium	Japan	Slovenia
Bosnia-Herzegovina	Jordan	South Africa
Brazil	Kuwait	South Korea
Bulgaria	Latvia	Spain
Canada	Lebanon	Sweden
Chile	Lithuania	Switzerland
China	Luxembourg	Syria
Colombia	Macedonia	Taiwan
Costa Rica	Malaysia	Thailand
Croatia	Morocco	Turkey
Czech Republic	Mexico	Ukraine
Denmark	Netherlands	United Arab Emirates
Egypt	New Zealand	United Kingdom
El Salvador	Nicaragua	USA
Estonia	Norway	Venezuela
Finland	Oman	Vietnam
France	Pakistan	Yemen
Germany	Panama	
Greece	Paraguay	
Guatemala	Peru	
Honduras	Philippines	
Hong Kong	Poland	
Hungary	Portugal	
Iceland	Qatar	
India	Romania	
	Russia	

Weidmüller is the leading manufacturer of components for electrical connection technology. The Weidmüller product portfolio ranges from terminal blocks, PCB connectors and terminals, protected components, Industrial Ethernet components and relay sockets to power supply and overvoltage protection modules suitable for all applications. Electrical installation and marking material, basic I/O components and a variety of tools round off the range. As an OEM supplier, the company sets global standards in the field of electrical connection technology.

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Order number:  
5649980000/05/2005/DMMD



Product range	Minimate range	Omnimate range	Omnimate range	Omnimate range	Unimate range	Powermate range	Powermate range
Pitch	3.50 mm/0.14 inch (two-row)	3.50 mm/0.14 inch	3.81 mm/0.15 inch	5.08 mm/0.2 inch	5.08 mm/0.2 inch	7.62 mm/0.3 inch	10.16 mm/0.4 inch
Approvals	<b>VDE</b> ≤ 100 V ≤ 10 A ≤ 1 mm <sup>2</sup> <b>UL 1059</b> ≤ 150 V ≤ 8 A AWG 28-16	<b>VDE</b> ≤ 160 V ≤ 15 A ≤ 1.5 mm <sup>2</sup> <b>UL 1059</b> ≤ 300 V ≤ 10 A AWG 26-14	<b>VDE</b> ≤ 160 V ≤ 8 A ≤ 1.5 mm <sup>2</sup> <b>UL 1059</b> ≤ 300 V ≤ 8 A AWG 30-16	<b>VDE</b> ≤ 250 V ≤ 19 A ≤ 2.5 mm <sup>2</sup> <b>UL 1059</b> ≤ 300 V ≤ 10 A AWG 26-12	<b>VDE</b> ≤ 250 V ≤ 17.5 A ≤ 2.5 mm <sup>2</sup> <b>UL 1059</b> ≤ 300 V ≤ 10 A AWG 26-12	<b>VDE</b> ≤ 500 V ≤ 43 A ≤ 6.0 mm <sup>2</sup> <b>UL 1059</b> ≤ 300 V ≤ 31 A AWG 24-10	<b>VDE</b> ≤ 690 V ≤ 60 A ≤ 16.0 mm <sup>2</sup> <b>UL 1059</b> ≤ 300 V ≤ 54 A AWG 22-6
Pin blocks/ socket blocks	Reflow-compatible pin blocks Pin blocks Tension clamp socket blocks	Reflow-compatible pin blocks Single-row pin blocks Multi-row pin blocks Clamping yoke socket blocks Socket blocks with other connection types	Reflow-compatible pin blocks Single-row pin blocks Clamping yoke socket blocks	Reflow-compatible pin blocks Single-row pin blocks Multi-row pin blocks Clamping yoke socket blocks Tension clamp socket blocks Socket blocks with other connection types Lock and release lever Inverted models Special models	Pin blocks Socket blocks Inverted models	Single-row pin blocks Socket blocks	Single-row pin blocks Clamping yoke socket blocks
Product type	S2L-SMT 3.5/90G S2L 3.5/90G B2LZF 3.5  S2L-SMT 3.5/90LF S2L 3.5/90F B2LZF 3.5F  B2LZF 3.5LH  S2L-SMT 3.5/180G S2L 3.5/180G  S2L-SMT 3.5/180LF S2L 3.5/180F	SL-SMT 3.5/90G SL 3.5/90G SLDV 3.5/90G BLZ 3.5 BLZF 3.5  SL-SMT 3.5/90LF SL 3.5/90F SLDV 3.5/90F BLZ 3.5F BLZF 3.5F  SL 3.5/135F BLZ 3.5LH BLIDC 3.5  SL-SMT 3.5/180G SL 3.5/180G SLDV 3.5/180 BLIDCB 3.5F  SL-SMT 3.5/180LF SL 3.5/180F SLDV 3.5/180G BLZ 3.5/90F  BLZ 3.5/270 BL-I/O 3.5/30F	SL-SMT 3.81/90G SL 3.81/90G BLZ 3.81  SL-SMT 3.81/90LF SL 3.81/90F BLZ 3.81F  SL-SMT 3.81/180G SL 3.81/180G  SL-SMT 3.81/180LF SL 3.81/180F BLZ 3.81/90F  BLZ 3.81/270	SL-SMT 5.08/90/180 SL 5.08/90/180 SLDV 5.08/90 BLZ 5.08 BLZF 5.08 BL 5.08 BLZ 5.08 SLS 5.08 BLZ 5.08F QVZ  SL-SMT 5.08/90/180G SL 5.08/90B/180 SLD 5.08/90G BLZ 5.08B BLZF 5.08B BLT 5.08 BLZFS 5.08 BLL 5.08/90/180 BLZ 5.08/225  SL-SMT 5.08/90/180LF SLDV 5.08/180B BLZ 180F BLZF 5.08F BLT 5.08B BLT 5.08 SLZF 5.08/90B BLC 5.08B  SL-SMT 5.08/270GL SL 5.08/135 BLZ 5.08/90/270 BLZF 5.08/90/270 BLIDC 5.08 SLT 5.08 BLDT 5.08  SL-SMT 5.08/270FH SLDV-THR 5.08/180F BLZ 5.08/90B/270 BLZF 5.08/90B/270B BLIDC 5.08B  SL-SMaRT 5.0x BLZ 5.08/90F/270F	SLA 90B BLA SLAS B  SLA 180B BLA B  SLAD 90 BLAT  SLAD 90B BLAT B  SLAD 180 BLAC R  SLAD 180B BLAC BR	SV 7.62/90G BVZ 7.62  SV 7.62/90F BVZ 7.62F  SV 7.62/180G BVZF 7.62  SV 7.62/180F BVZF 7.62 SF  SV 7.62/270G  SV 7.62/270F	SU 10.16/90 BUZ 10.16  SU 10.16/90F BUZ 10.16F  SU 10.16/180  SU 10.16/180F  SU 10.16/270  SU 10.16/270F

For pitches 5.00, 7.50 and 7.62 please see catalogue.