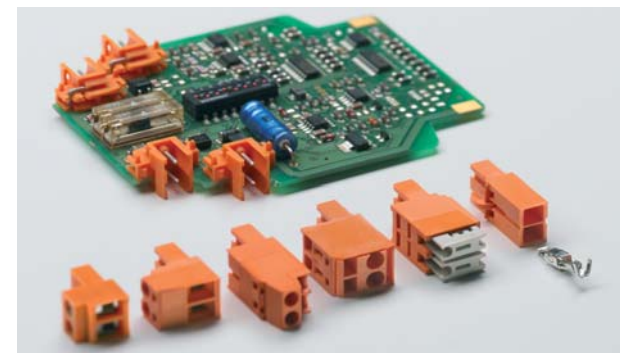


PCB connectors

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 mm²/ 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

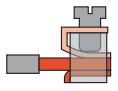
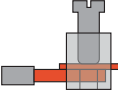
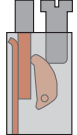
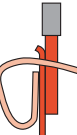
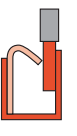
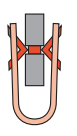

- Unique safety face range of two part connectors
- Fibreglass-reinforced PBT ensures great dimensional stability and a high temperature in constant use
- Choice of three connection technologies: clamping yoke, top or crimp connection

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 prefabricated 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

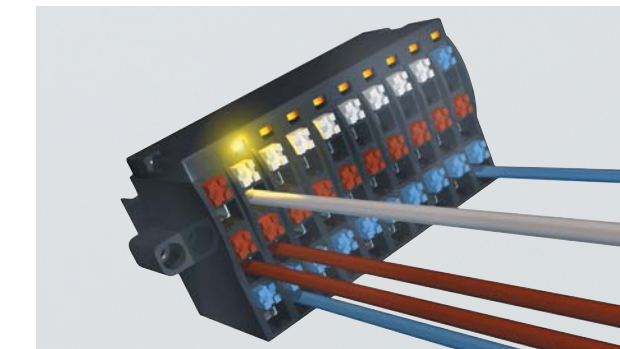
Impressive variety

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

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



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	
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	Russia	














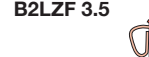


















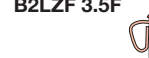







































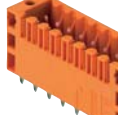



















Weidmüller is the leading manufacturer of components for electrical connection technology. The Weidmüller product portfolio ranges from terminal blocks, PCB connectors and terminals, protected components, Industrial Ethernet components and relay sockets to power supply and overvoltage protection modules 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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Internet www.weidmueller.com

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	<div><div></div><div>VDE ≤ 100 V ≤ 10 A ≤ 1 mm²</div><div>UL 1059 ≤ 150 V ≤ 8 A AWG 28-16</div></div>				<div><div></div><div>VDE ≤ 160 V ≤ 15 A ≤ 1.5 mm²</div><div>UL 1059 ≤ 300 V ≤ 10 A AWG 26-14</div></div>				<div><div></div><div>VDE ≤ 160 V ≤ 8 A ≤ 1.5 mm²</div><div>UL 1059 ≤ 300 V ≤ 8 A AWG 30-16</div></div>				<div><div></div><div>VDE ≤ 250 V ≤ 19 A ≤ 2.5 mm²</div><div>UL 1059 ≤ 300 V ≤ 10 A AWG 26-12</div></div>				<div><div></div><div>VDE ≤ 250 V ≤ 17.5 A ≤ 2.5 mm²</div><div>UL 1059 ≤ 300 V ≤ 10 A AWG 26-12</div></div>				<div><div></div><div>VDE ≤ 500 V ≤ 43 A ≤ 6.0 mm²</div><div>UL 1059 ≤ 300 V ≤ 31 A AWG 24-10</div></div>				<div><div></div><div>VDE ≤ 690 V ≤ 60 A ≤ 16.0 mm²</div><div>UL 1059 ≤ 300 V ≤ 54 A AWG 22-6</div></div>			
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 	SL-SMT 3.5/90G SL 3.5/90G SLDV 3.5/90G BLZ 3.5  BLZF 3.5 				SL-SMT 3.81/90G SL 3.81/90G BLZ 3.81 				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 				SLA 90B  BLA  SLAS B 				SV 7.62/90G  BVZ 7.62 				SU 10.16/90  BUZ 10.16 				
	S2L-SMT 3.5/90LF 	S2L 3.5/90F 	B2LZF 3.5F 	SL-SMT 3.5/90LF SL 3.5/90F SLDV 3.5/90F BLZ 3.5F  BLZF 3.5F 				SL-SMT 3.81/90LF SL 3.81/90F BLZ 3.81F 				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 				SLA 180B  BLA B 				SV 7.62/90F  BVZ 7.62F 				SU 10.16/90F  BUZ 10.16F 				
	B2LZF 3.5LH 				SL 3.5/135F  BLZ 3.5LH  BLIDC 3.5 								SLAD 90  BLAT 				SV 7.62/180G  BVZF 7.62 				SU 10.16/180 							
	S2L-SMT 3.5/180G 	S2L 3.5/180G 	SL-SMT 3.5/180G SL 3.5/180G SLDV 3.5/180 BLIDCB 3.5F 				SL-SMT 3.81/180G SL 3.81/180G				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 				SLAD 90B  BLAT B 				SV 7.62/180F  BVZF 7.62 SF 				SU 10.16/180F 					
	S2L-SMT 3.5/180LF 	S2L 3.5/180F 	SL-SMT 3.5/180LF SL 3.5/180F SLDV 3.5/180G BLZ 3.5/90F 				SL-SMT 3.81/180LF SL 3.81/180F BLZ 3.81/90F 				SL-SMT 5.08/270FH SL 5.08/270F SLDV-THR 5.08/180F  BLZ 5.08/90B/270  BLZF 5.08/90B/270B  BLIDC 5.08B 				SLAD 180  BLAC R 				SV 7.62/270G 				SU 10.16/270 					
	BLZ 3.5/270  BL-I/O 3.5/30F 				BLZ 3.81/270 				SL-SMaRT 5.0x  BLZ 5.08/90F/270F 				SLAD 180B  BLAC BR 				SV 7.62/270F 				SU 10.16/270F 							

For pitches 5.00, 7.50 and 7.62 please see catalogue.