

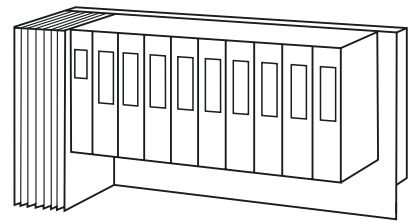
Connection technologies for the world of automation

Expert solutions for industrial equipment and systems

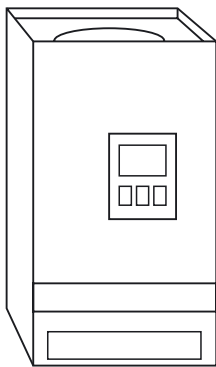
A professional partnership for perfect solutions

The name Weidmüller stands for extensive know-how in electrical technology. As a market leader in connection technology for over 50 years, we are the ideal partner for system integrators, machine builders and equipment manufacturers. Our connectivity solutions particularly shine in PLC's, drive technology and MSR equipment, where you can see far more than standard solutions. We develop products which are tailored to meet our customer's requirements, by providing comprehensive support, in the shape of consultation services, technical services and development work.

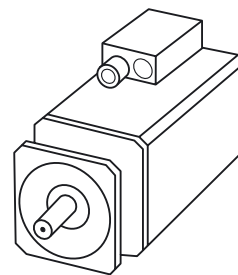
Involve us in your projects – right from the start. We are well prepared and committed to our common goal: top-quality products. Products which fully comply with your requirements; products you can rely on.



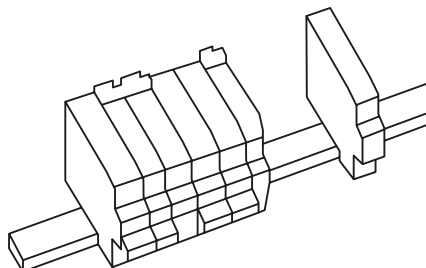
Controlling



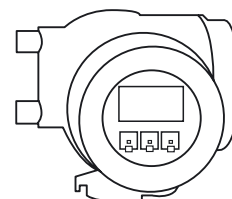
Regulating



Moving



Converting



Recording

Your choice of connection technology for maximum flexibility

We give you the freedom to be flexible, allowing you to cater for whatever individual requirements your customer may have.

The choice is yours ...

▪ Connection technology

Regardless of whether you opt for screw, tension clamp, IDC or the latest Push In connection technology, you can rest assured that Weidmüller's connectivity components comply with all the relevant international norms and licensing conditions.

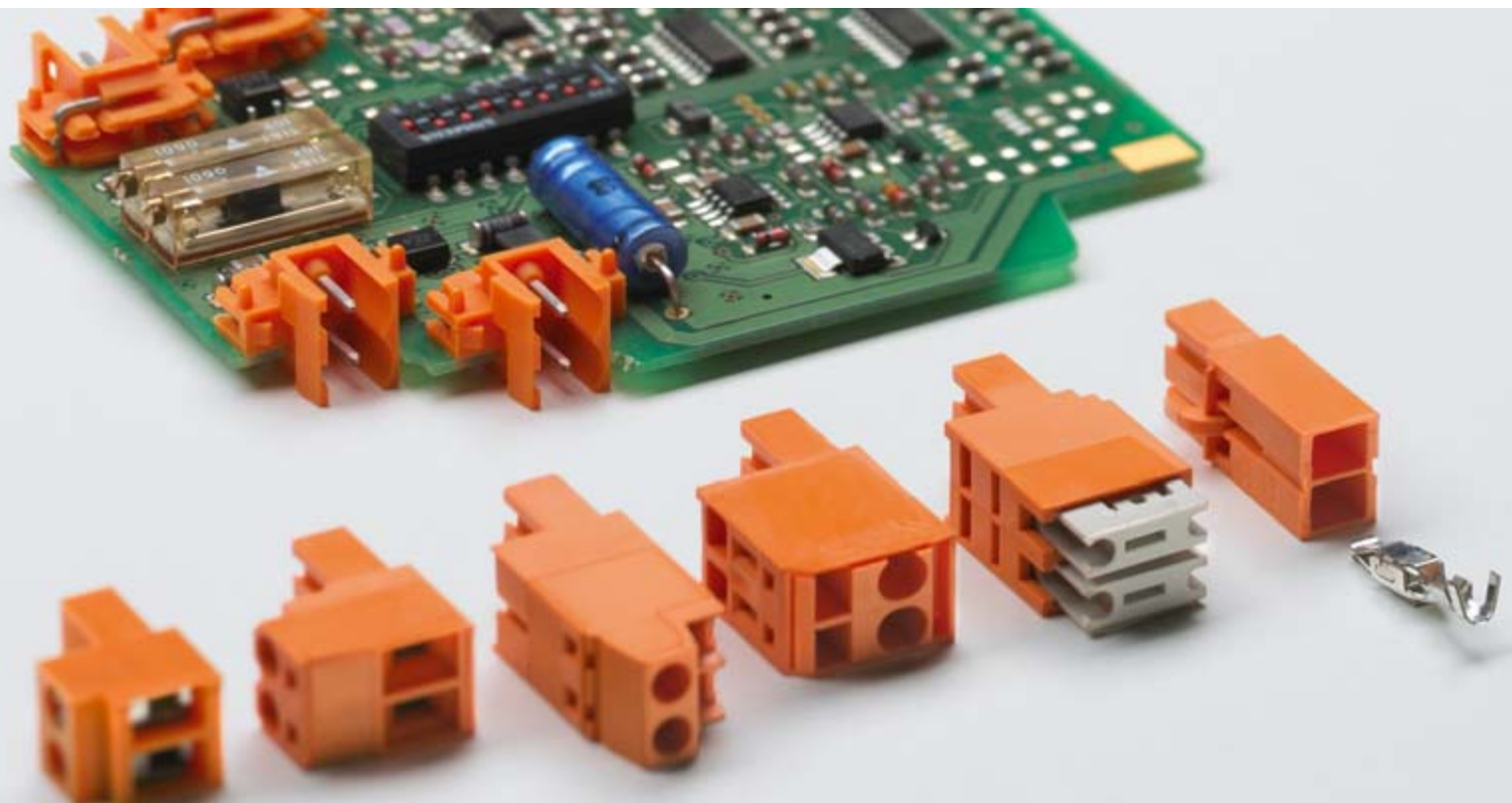
▪ Processing options

From THT to the through-hole reflow method (THR) which allows SMD components and connection technology to be processed highly efficiently in a single step.

▪ Product models

From different-coloured terminal or connector housing to fully or partially gold-plated contacts and kitting.

Our objective is to offer you the very best solution for every application. That's why we have developed or modified a whole range of products for customer-specific requirements over the years. We are proud to be able to say that a number of connection technologies which are now in widespread use worldwide are based on our development work. You can't possibly lose!



Sophisticated concepts for ongoing miniaturisation

In today's tough markets, cost-cutting has long since ceased to be a sufficient means of remaining competitive. Developing ever more compact components has become a crucial factor for concepts to succeed. We can help you to master this tricky task while developing and producing automation systems by supplying optimum solutions – such as ...

- **Our Minimate product family**

The advantage for you: by fitting twice as many connections into a 3.5 mm pitch, you need approx. 10% less space on the PCB than with a 2.5 mm pitch. You can even save up to 30% space on the front plate – all with the good handling you have come to expect from a 3.5 mm pitch.

- **BL I/O 3.5**

The innovative solution for decentralising I/O electronics. Compared with the conventional distribution of potential energy, this system uses 50% less space and cuts wiring time by up to 40%.



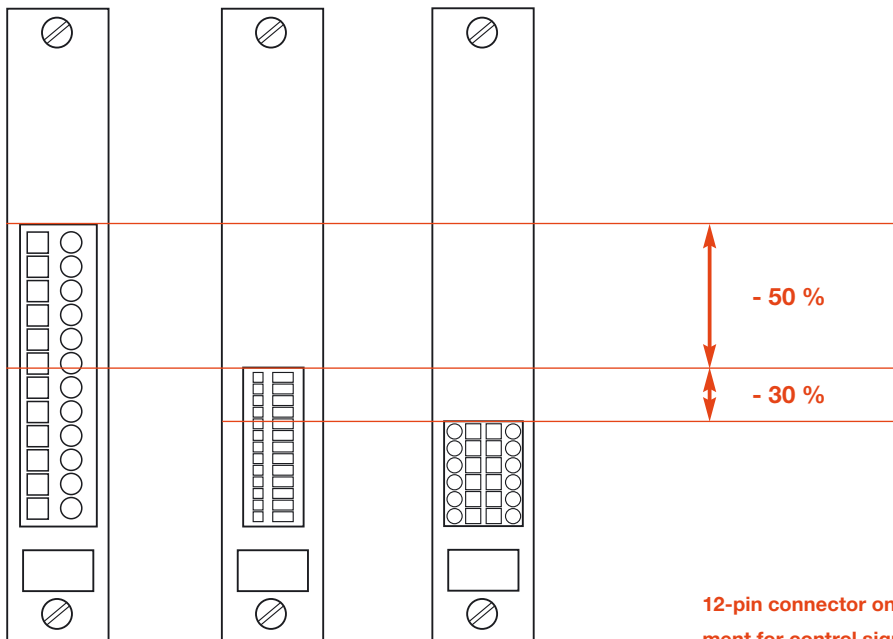
Minimate (3.5 pitch)

BL I/O 3.5

5.00 pitch

2.5 pitch

3.5 two-row pitch



12-pin connector on a 19" front plate: denser connection arrangement for control signals via Minimate.

Module protection for successful decentralisation

The trend towards decentralisation in automation continues unabated, and is further amplified by the fact that more and more field appliances are available with higher classes of protection (\geq IP65). There is growing demand for compact, robust modules which are designed for tough conditions and can be fitted to machines or systems on site. Our product portfolio caters for this development, with everything from heavy-duty connectors to active sensor-actuator distributors. We also develop and supply modified enclosures for electronics and connection technology.

If you are looking to combine miniaturisation, decentralisation and a high level of protection, we can offer an innovative solution which sets new standards: JACKPAC® – the modular, flexible M12 signal box concept for use in tough industrial conditions.



SAI sensor-actuator distributor



JACKPAC®



Profibus DP distributor with stainless steel enclosure



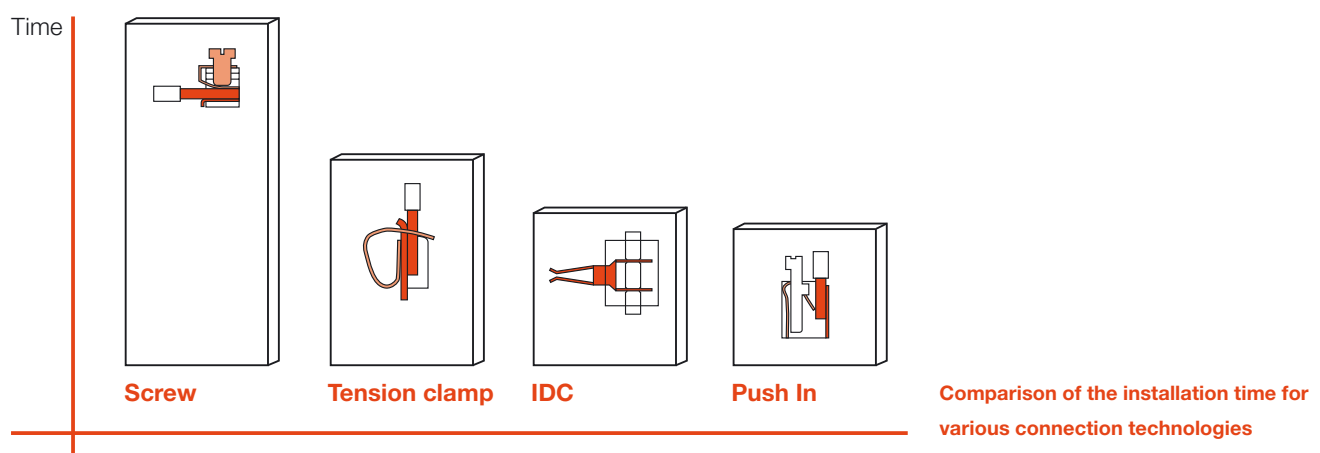


Faster connection technologies give you the competitive edge

Every second counts during the commissioning of a machine, making it crucial that complex automation appliances can be connected quickly. We can give you that crucial competitive edge with ...

- our pioneering connection technologies
- prefabricated conductors
- products for severable connections and pluggable electronics

All this allows you to drastically reduce your mounting, connection and conversion times.



Process optimisation with surface mount technology

In industrial applications, the pressure to supply high quality at a low price is making it increasingly necessary to produce electronic modules using highly automated processes. Electromechanical components in particular often still need to be manufactured in time-consuming composite processes.

Our comprehensive portfolio of PCB components for through-hole reflow technology fulfils all the optimisation requirements, creating a pure SMT assembly and soldering process. Now there's nothing stopping the optimisation process in your production plant.



Pick and place: machine-friendly packaging for the SMT process.



It's your choice – the complete range of PCB plug-in connectors

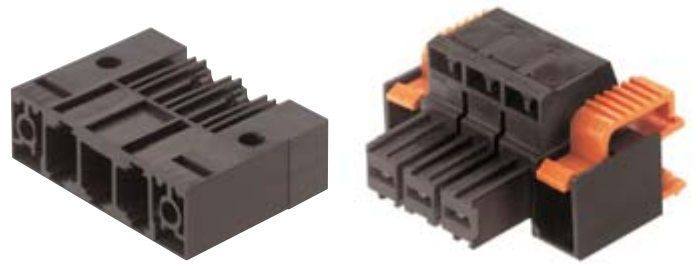
Flexibility is the golden rule of automation. Our wide range of products lays the ideal foundations, enabling you to react to your clients' application needs appropriately. We can offer you expert advice on choosing the right connection technology.

We have a large selection of PCB plug-in connectors. Up to seven connection techniques are available to connect the conductor to the sockets or inverted pin blocks.

Whichever connection type you choose; all connectors feature 100% safe contacts, need no maintenance, are easy to handle and feature galvanic isolation.



Minimate



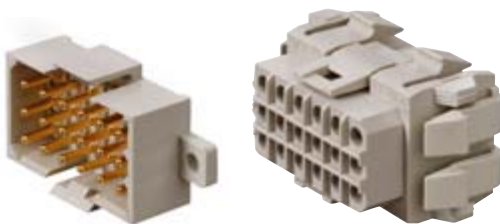
Powermate



Omnimate



Unimate



Crimpmate

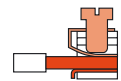
Optimum connection types for all applications

Each connection type has its advantages. That's why we have not limited ourselves to a particular system, but offer the optimum solution for every application – such as the Omnimate range with seven different connection types.

Connection types

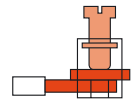
Leaf spring

Internationally established, cost-effective technology with shallow height.



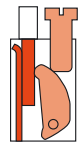
Screw clamp

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



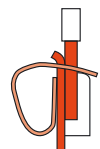
Top connection

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



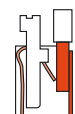
Tension clamp

For fast wiring and high vibration resistance.



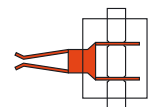
Push In

For fast wiring and small dimensions.



IDC

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



Crimp

Flexible for prefabricated conductors.



PCB terminals - performance in all pitches

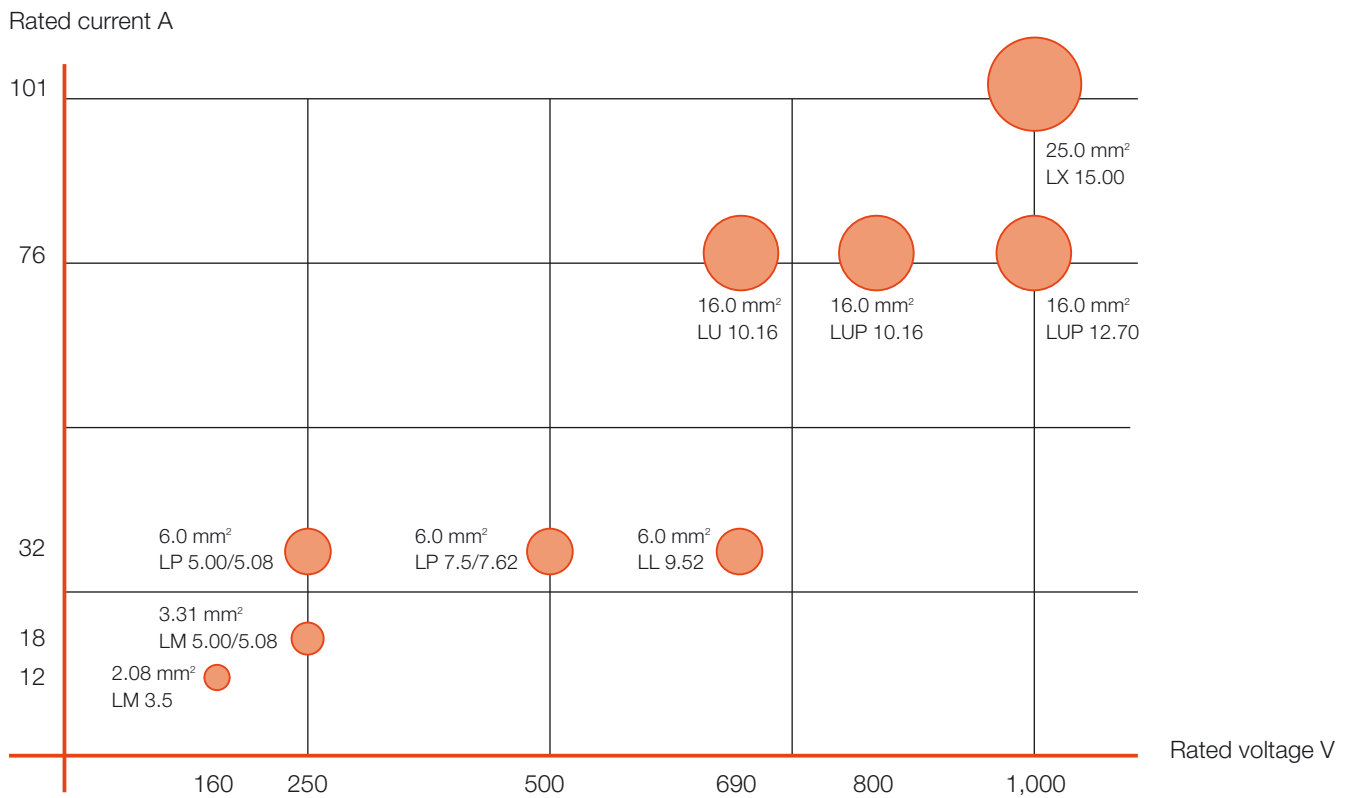
In line with our goal of providing the perfect solution for every application, we have developed an array of PCB terminals, catering for voltages up to 1,000 V and current up to 101 A.

You can choose from eleven different pitches, with three cable entries and six connection technologies. What's more, single and multi row options are also freely available.



LM 3.5

LX 15.00



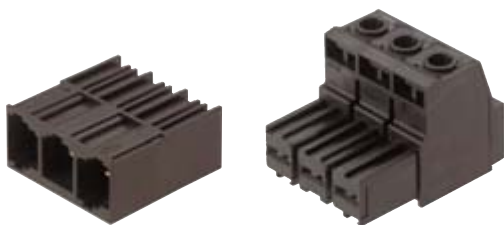
From LM 3.5 to LX 15.00: the right PCB terminal for all your needs.

Power on board: powerful plug-in connectors

The name of our “power on board” solutions says it all – convenient connections for high loads on PCBs with a high current-carrying capacity and resistance to short circuits.

The PCB plug-in connectors from the Powermate range are designed for voltages of up to 690 V and currents of up to 60 A.

Here, too, the choice is yours: you can lock the plug-in connection using screws, or just clip it in. And you can choose between a screw clamp and a tension clamp for the conductor connection. That’s what we mean when we say that the choice is yours.



Powermate SV/BV 7.62



Powermate SU/BU 10.16

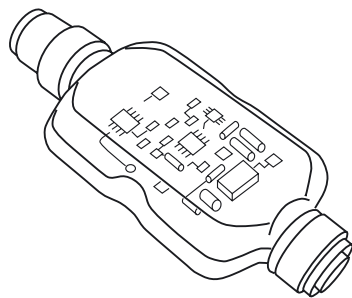


Quality down to the last detail: individual parts and enclosures

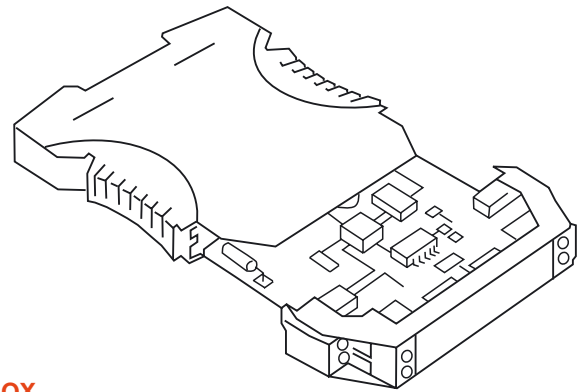
Of course you want to be flexible throughout the design process – that's no problem for us! Our work is based entirely on your specifications. We can develop solutions which are tailored to meet your requirements or supply individual components.

Depending on your preferences, we can supply the connection technology as an individual part, for example, and support you during the design-in process.

When it comes to protecting electrical and electronic circuits, we offer you a range of empty enclosures for electronics. Once again, the choice is yours: with or without connection technology, with complete enclosure assembly ready for connection, with the IP20 and IP67 classes of protection and, of course, in the colour you want.



JACKPAC®



WAVEBOX





OEM partnership with Weidmüller

For us, partnership means cooperation based on trust and efficient delegation. While you specialise in developing electronics and software, we will take care of the electro-mechanical connectivity. This allows you to concentrate on what you do best, dramatically reducing your product's "time to market" phase.

For us, partnership also means not competing with our customers. We place all our expertise at our customers' disposal and do not pit ourselves against our own clients—something which sets us apart from most other manufacturers in the field of electrical connection technology.

For us, partnership means commitment and motivation. We are at your service right from the early stages of a new development project, maintaining dialogue with you throughout. This is the only way to design individualised solutions which fully comply with your requirements.

This is our definition of a strategic partnership with our OEM customers and the philosophy which ensures that we attain success together.

Personalised advice for personalised products

Innovative solutions are just one of our strengths, which also include comprehensive service. We set standards worldwide in both fields – something you can be sure to benefit from.

Face-to-face services

- We work closely with you right from the start and place our specialists' pooled know-how at your disposal – especially when it comes to the design-in process.
- A knowledgeable Weidmüller employee is always available to offer you advice on your applications.
- With our innovation workshops, we have created a forum where you can discover new technologies and discuss the latest trends.
- Our training centre not only offers individual product courses, but also seminars on directives and guidelines. These are held at our training centre, at your premises, or online.



Just a click away – our online services

Time is money. That's why we are also available for you online. It's fast, simple, and it's just a click away.

Online services

If you would like to integrate our products into your CAD application, you can download the relevant CAD sketches here:

www.partserver.com

For our online catalogue with all the most important information on our products, go to:

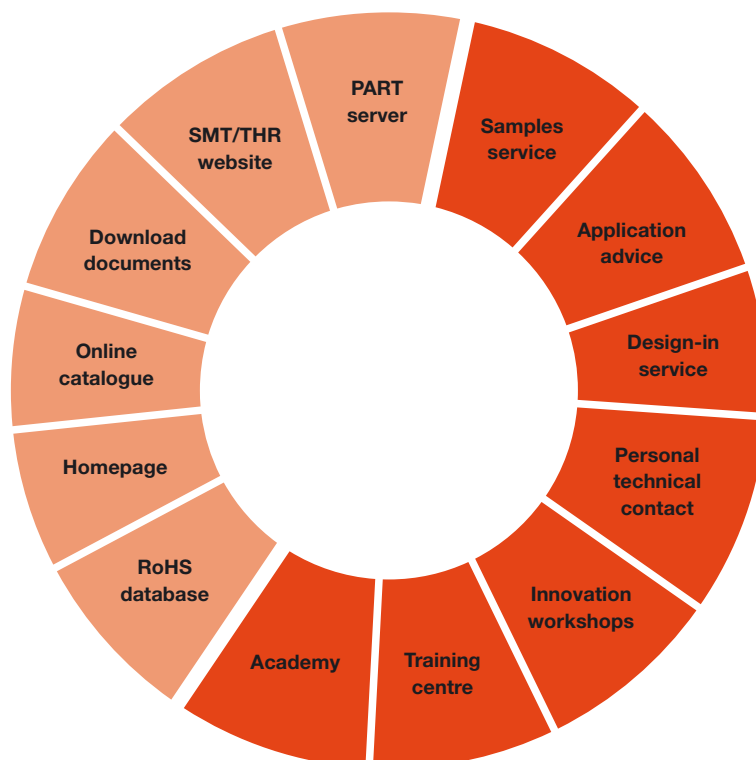
<http://catalog.weidmueller.com>

Try the following site for useful information about THR technology, the SMT process and design-in:

www.smt-technology.com

Our homepage features comprehensive information about our company, our products and services and everything you need to know about the latest laws and guidelines:

www.weidmueller.com



Online services ■ Face-to-face services ■

www.weidmuller.com

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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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5649920000/04/2005/DMMW

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www.weidmueller.com

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