Outstanding connections for power electronics
OMNIMATE® PCB terminals and plug-in connectors
Let’s connect.
Maximum performance with increased efficiency – this is the current trend in the field of power electronics. To achieve this goal, devices must combine excellent functionality with simple operation. Device connectivity systems therefore need to be fault-free, safe and fast. The LLF and LUF PCB terminals from the OMNIMATE® Power product range are designed with proven PUSH IN connection technology to provide you with the perfect solution to such challenges for various applications.
Optimum connection reliability
Highly reliable and safe connections are critical for cable wiring. The LLF and LUF terminals ensure high contact reliability. The terminal contact stays clamped automatically for a reliable connection.

Convenient access to test points
The terminals offer two test points – one beside the wire entry and another beside the actuator (except LLFS 180/ LUFS 180) – for convenient access.

Tool-free wiring
The proven PUSH IN connection system allows wires to be connected to the PCB quickly, efficiently and without tools.

Compliance with UL
Allows unrestricted international use in applications in accordance with UL 1059 up to 600 V. LUF in 15 mm pitch with staggered pin meets UL 1,000 V for tougher applications.

Convenient operation
An ergonomic design allows the operator to quickly and conveniently open the clamp and release the wire, thereby avoiding potential compromises to the circuit board.

Maximum safety
Advanced finger safety of +3 mm according to IEC 61800-5-1. Guaranteed protection against direct contact without extra cover.

Technological advances often depend on how powerful, flexible, user-friendly and economical connection systems are in their daily use. LLF and LUF PCB terminals with PUSH IN connection technology combine excellent functionality with easy operation.
Power electronics demand device connectivity that meets all requirements without compromise – including those of the future. Complex components must be more compact yet at the same time deliver higher performance. With OMNIMATE® Power, we offer you an application-oriented product range of plug-in connectors and PCB terminals such as the LLF up to 6 mm² and LUF up to 16 mm² for the safe and powerful connection of motor and drive.

Your ideas need the right connections
Our power terminals ensure optimum safety

1. **Power supply**
   Reliable device connections are essential to meet the maximum power and voltage requirements in power electronics applications. Our LLF and LUF power series provide you with many unique features while ensuring maximum safety and reliability.

2. **Motion connections**
   This interface typically requires connections for the motor voltage, internal temperature sensor and possibly the mechanical brakes. Depending on the application, a connection to an encoder or resolver may also be required.

Learn more about our application-oriented connection solutions for your power electronics at: [www.power-electronics-connectors.com](http://www.power-electronics-connectors.com)
Photovoltaic inverter

1 DC power connection
When using high currents and voltages in power electronics, safe connectivity is indispensable. We have designed the LLF and LUF PCB terminals for maximum safety.

2 AC power connection
The electrical connectivity inside the device between the individual function units is provided by our LLF and LUF power connection components. The large range of PCB terminals offers numerous connection options, with a high clamping force and optimum use of space.

Radio base station

1 Power supply
The switch-mode power supply converts incoming AC voltage into DC voltage and supplies all the components integrated in the radio base station. Blackouts and voltage drops in the grid are bypassed due to an integrated supply management concept using alternative sources of electricity. In the event of extreme ambient temperatures, only minimal power losses occur. LLF and LUF power terminals meet all requirements of challenging power supply systems.

2 Power distribution
Critical network systems such as the radio base station enable optimum power distribution. Intelligent power distribution means that peak loads are balanced out and power consumption is monitored. The challenge here is high performance transmission at the same time within a tight component space, which can be satisfied by LLF and LUF power terminals.
The right connection for every application
Robust connection for all power electronic devices

By design, the LLF and LUF features an exceptionally intrinsically safe and self-secure connection-system, comprehensive article offerings for users to choose for specific applications, different wire entry directions, multiple choice in pitches, intuitive actuation and easy handling.

• "Connection Safety Concept" from Weidmüller
• Actuated by hands or screwdrivers, intuitive actuating and easy handling
• 90 or 180 degree wire entry
• Cross section 0.5 mm²–16 mm²
• Pitch in 7.5 mm, 10 mm and 15 mm
• UL 1059 600 V, up to 1000 V
#Achieve your goal faster
Go straight to the product using its web code. Simply enter the web code in the search screen of our website with the pop-up blocker deactivated.

Order your free product sample
Take advantage of our free 72-hour sample service.
1. Select your required sample from the online catalogue
2. Check your enquiry list
3. Enter your contact details and complete your order
www.weidmueller.com/omnimate

Pitch
7.50 mm
- LLF 7.50/90V
  - Webcode #11460
- LLFS 7.50/90V
  - Webcode #11459
- LLFS 7.50/180V
  - Webcode #11457

Pitch
10.00 mm
- LUF 10.00/90
  - Webcode #11468
- LUF 10.00/90V
  - Webcode #11455
- LUF 10.00/180
  - Webcode #11463
- LUFS 10.00/90V
  - Webcode #11454
- LUFS 10.00/180V
  - Webcode #11453

Pitch
15.00 mm
- LUF 15.00/90
  - Webcode #11452
- LUF 15.00/90V
  - Webcode #11451
- LUF 15.00/180
  - Webcode #11462
- LUFS 15.00/90V
  - Webcode #11450
- LUFS 15.00/180V
  - Webcode #11449
Weidmüller – Your partner in Industrial Connectivity

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Industrial Connectivity.