You're looking to optimise your design-in process
Our online services open up opportunities
Let's connect.

OMNIMATE® device connectivity

Compact catalog with webcodes

Weidmüller ⊃⊃Ε

The new Weidmüller online services
The intelligent service concept for the design-in process

Design-in at the pace of time

Your entire development process is computer-assisted; you can obtain internal data over the Intranet, or simply go online for your research and communication or to place orders. So why not make the most of new search paths and services independently of the catalogues? It's web-based, making it really simple and saving valuable time.

Weidmüller has fundamentally re-designed the selection and ordering process for device connectivity in a way that better suits your application. In the future, there'll no longer be just the one path to the right product; there'll just be the right path: yours. Let's connect.

What you'll get from the new web-based service

Increased range of selection options

Make the most of the full breadth and depth of our product and services range for PCBs and PCB device connectivity without missing a thing.

Intuitive handling

All of our tools are self-explanatory and are also suitable for beginners.

Excellent functionality

Discover the range of possibilities offered by practice-oriented tools and special functions, such as the counterpart selector that helps you find the right counterpart straight away.

Simple navigation

With a clear overview and easy navigation through the different product categories, lists and tables.

Vast array of options

Whether carrying out a restrictive or an expanded search, simply use the specification method nearest to you.

Added value

Find exactly the right expertise, the most helpful support and the most reliable service to help you execute your project. 72-hour sample service included!

Meet the newest member of our team: the webcode
The hashtag for easy product searching

#01028

#01190

#01052

#01116

#01072

#01160

#01184

#01056

What are webcodes?

A hashtag followed by five digits – that's all you need to find out detailed information about the products in our wide-ranging portfolio. Entering the sequence of characters activates certain product groups or an individual product.

Where can I find the webcode?
Next to the product, either in this brochure or online.

Where do I enter the webcode?
Just enter the code into the search screen on our website. *)

Where will I be directed to once I've entered the webcode?
You'll be taken to the product specifications and technical details, as well as additional info and downloads.

*) Note: Make sure that the pop-up blocker settings are disabled

Four paths to the right product
Our online services as process-optimisation tools

As a leading provider and pioneer in the field of device connectivity, Weidmüller supports the entire design-in process with deep-rooted application expertise and tried-and-tested problem-solving skills. Our intelligent service concept is designed to assist you on the way to a successful PCB and device design.

Our global design-in support provides the perfect connection between products and services, and your task is always the key focus. Take advantage of the benefits that strengthen your processes with one of our three paths to the right product.

There is more than one route to the final layout. Our support concept will assist you in all of your search and selection options.

Webcode #01171

Webcode #01169

The AppGuide

When working with applications, you'll need to find ways of successfully implementing your ideas. Simply select your device application in our AppGuide, and we will recommend a range of products for all the different functions of your device.

The product configurators

Your layout is ready and you know what components you want to use. Use the product configurator to quickly select device connectivity and housings and to adapt them according to your application's component specifications and requirements.

Find the right services for every step of your device development at:
www.weidmueller.com/omnimate

Webcode selection

For an application, you need certain specifications for certain products. Our new webcode allows you to go directly to the relevant products: simply choose the required product from the following pages and enter the hashtag with five-digit code on our website, and you'll be directed to the relevant details.

Specification filters

In our online catalog in the area of device connectivity, you filter the right product in seconds using your product and application requirements.

Your device application
Our AppGuide for device developers

Based on your application, the AppGuide will show you a representative range of products for the different functions of your device.

The overview will show you the application as you know it. Move the cursor over the markings to find out information on the connection technology for sub-assemblies and components. And it's just a few more clicks from here to your desired product.

Webcode #01171

AppGuide
for device developers
Wanted. Found. **Let's connect.**

1. Open the AppGuide

Go to:
www.weidmueller.com/AppGuide or use the **Webcode #01171**

2. Select the application

Hotspots will show you the way to our recommended products

Go directly to your application with the webcode

Industrial controls
Webcode #01173

Drive controllers and regulators
Webcode #01175

Devices of machine safety
Webcode #01177

Analogue signal converter
Webcode #01179
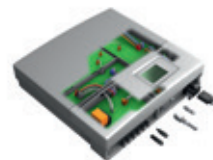
Photovoltaic inverter
Webcode #01181

Power supply
Webcode #01183

Radio base stations
Webcode #01187

Heating electronics
Webcode #01189
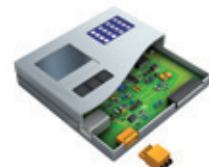
Building security equipment
Webcode #01191

LED lighting systems
Webcode #01195

Elevator electronics devices
Webcode #01197

Webcodes

Simply enter the hashtag with five digits into the search screen on our website to find out more about your application and the matching products.
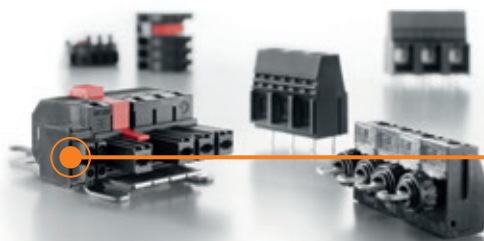
3. Select product group

Use the hotspots to find the perfect products for your applications
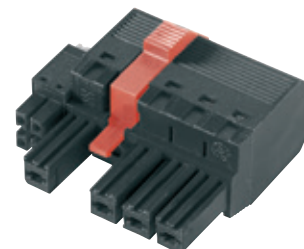
4. Receive the product

Configure your selection and use the available functions of our online catalogue.

Your requirements for individual components
Our product configurators for more design freedom

Product configurator for device connection technology

Whenever you are looking for the right connection technology, the product configurator for device connection technology enables the quick selection and adaptation of terminals and plug connectors according to component specifications and application requirements.

Webcode #11345

Stored data packages

- Ordering data
- Dimensions and weights
- System specifications
- Material data
- Connection system data
- Rating and nominal data
- Classifications
- Approvals

Customised colours

Process-compatible packaging

Clear labelling

Application-oriented surfacing systems

Optimised pin lengths

Distinctive coding
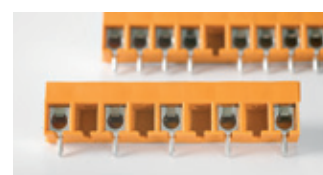
Custom assembly

Product configurator for electronic housings

Weidmüller's innovative CH20M housing system allows us to provide the best platform to fit your custom requirements – for whatever electronics application you are planning. Configure custom-fit housings according to your requirements from our line of connectivity, housing, and accessory components.

Webcode #11343

Customised colours

Clear labelling

Custom assembly
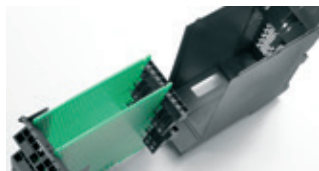
Dimensions of the cuircuit board

User-friendly mounting rail connection
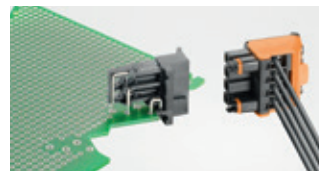
Pin lengths optimized for the process

Process-compatible packaging

OMNIMATE® Signal
Transmit numerous signals in the smallest possible space

A reliable device connection is an absolute must for your customised applications. With OMNIMATE® Signal, we can now offer you the right PCB-connection to meet your exact requirements.

You can choose from a product range that includes extremely compact PCB terminals and connectors, which, thanks to intelligent locking concepts and high-performance connection systems, provides your design-in process with a wide range of application-specific solutions and does not set any limits on your creativity.

We have also not forgotten about your production processes when formulating our product range, as our THR and SMD components ensure the highest productivity levels during the reflow soldering process.
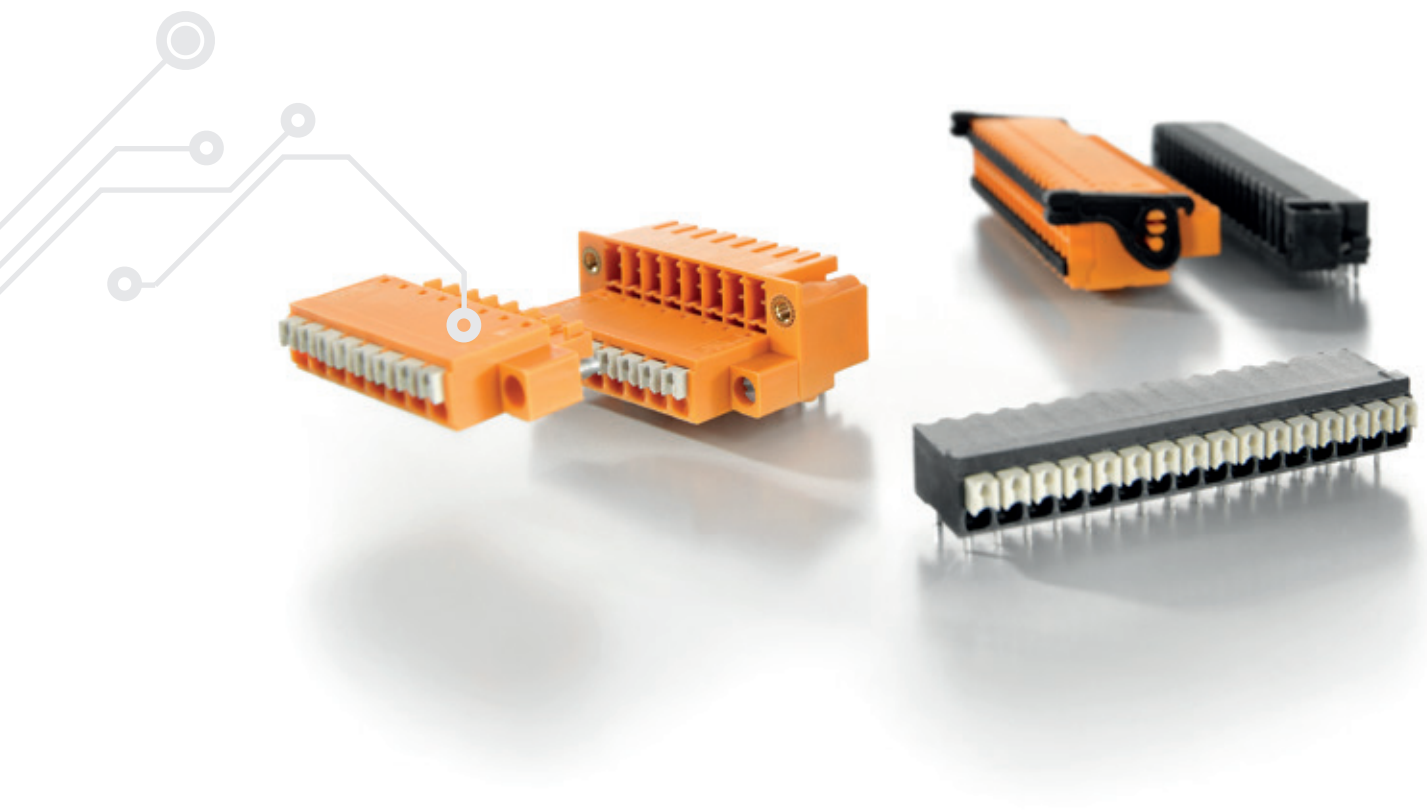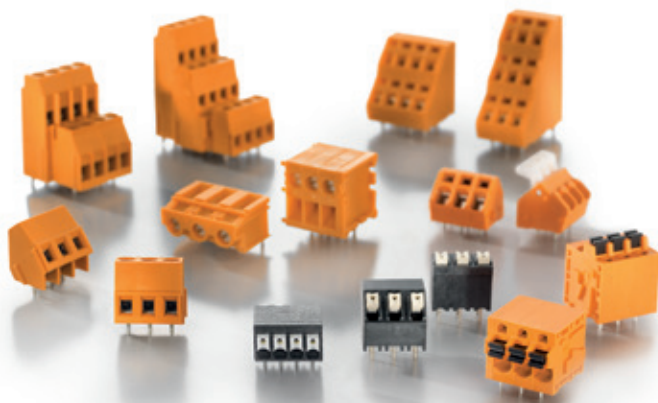
OMNIMATE® Signal
PCB terminals

PUSH IN

- Application-oriented connection systems ranging from clamping yoke screw connections to PUSH IN spring connections in all relevant cross-section ranges up to 6 mm²
- Can be used universally in all standard pitches from 3.50 mm to 7.62 mm
- A wide range of reflow-compatible products for automated SMT processes
- Compact, multi-layer designs up to 72-pole
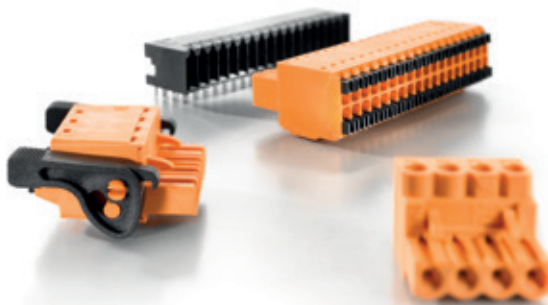
OMNIMATE® Signal
PCB plug-in connector

PUSH IN

- Compact at 2.50 mm pitch 36 connections at 3.50 mm pitch, highest level of power reserves at 3.81 mm pitch and largest application area at 5.08 mm pitch
- Application-oriented connection systems ranging from clamping yoke screw connections to PUSH IN spring connections.
- A wide range of reflow-compatible products for automated SMT processes
- Multi-row and multi-layer designs up to 48-pole
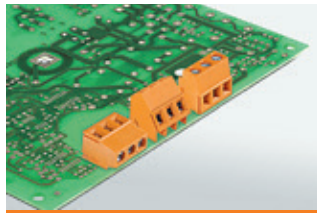
OMNIMATE® Signal – PCB terminals
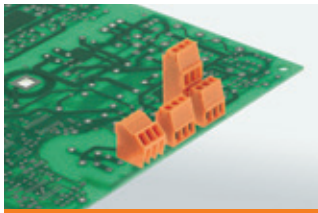
Clamping yoke screw connection

LM 3.50 / LM1N / LM2N
Small, compact PCB terminal with conductor outlet direction of 90° or 135°.

- Clamping yoke screw connection
- Pitch: 3.50 mm
- Number of poles: 2–12
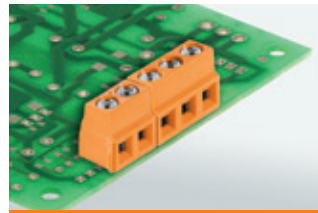- IEC: 320 V / 16 A / 0.2–1.5 mm²
- UL: 300 V / 10 A / AWG 28–14

LM 5.00/5.08
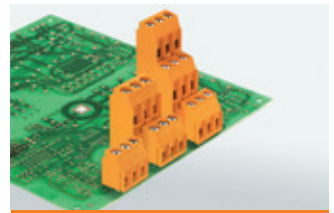Single-row PCB terminal with conductor outlet direction of 90°, 135° and 180°.

- Clamping yoke screw connection
- Pitch: 5.00 mm / 5.08 mm
- Number of poles: 2–24
- IEC: 630 V / 17.5 A / 0.2–2.5 mm²
- UL: 300 V / 15 A / AWG 24–14

LS 5.08
Small, compact PCB terminal with conductor outlet direction of 90°.

- Clamping yoke screw connection
- Pitch: 5.08 mm
- Number of poles: 2–12
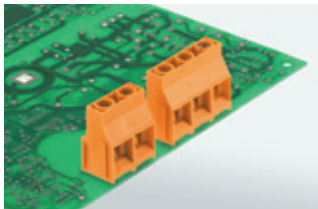- IEC: 630 V / 17.5 A / 0.08–1.5 mm²
- UL: 300 V / 15 A / AWG 28–14

LL 5.00/5.08
Single-row PCB terminal with conductor outlet direction of 90° and 180°.

- Clamping yoke screw connection
- Pitch: 5.00 mm / 5.08 mm
- Number of poles: 2–24
- IEC: 500 V / 32.5 A / 0.5–6 mm²
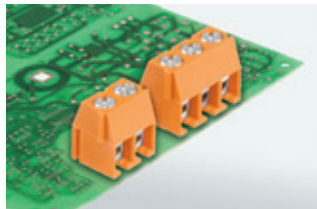- UL: 300 V / 20 A / AWG 28–12

Clamping yoke screw connection

LL 9.52
Single-row PCB terminal with conductor outlet direction of 90°.

- Clamping yoke screw connection
- Pitch: 9.52 mm
- Number of poles: 2–3
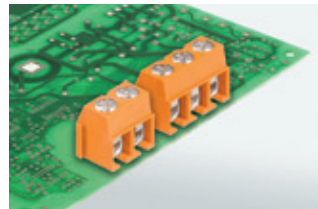- IEC: 1000 V / 32 A / 0.18–6 mm²
- UL: 300 V / 30 A / AWG 26–10

Leaf-spring screw connection

PS 3.5
Very small and compact PCB terminal with conductor outlet direction of 90°.

- Leaf-spring screw connection
- Pitch: 3.50 mm
- Number of poles: 2–12
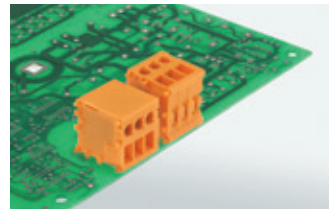- IEC: 320 V / 17.5 A / 0.2–1.5 mm²
- UL: 300 V / 10 A / AWG 28–16

PM 5.00/5.08
PCB terminal with conductor inlet direction of 90°.

- Leaf-spring screw connection
- Pitch: 5.00 mm / 5.08 mm
- Number of poles: 2–12
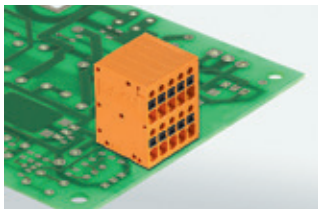- IEC: 600 V / 24 A / 0.13–2.5 mm²
- UL: 300 V / 15 A / AWG 26–14

TOP screw connection

TOP
PCB terminal with conductor insertion and contact point actuation from the same direction.

- TOP screw connection
- Pitch: 5.08 mm / 6.35 mm / 7.62 mm
- Number of poles: 2–24
- IEC: 630 V / 24 A / 0.2–2.5 mm²
- UL: 300 V / 10 A / AWG 26–14
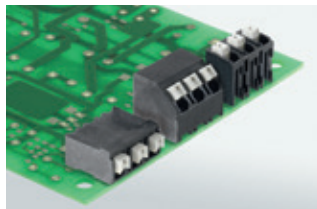
PUSH IN spring connection

LS2HF 3.50
Double-storey PCB terminal for wave soldering processes, with conductor insertion and slider operation from the same direction (TOP).

- PUSH IN spring connection
- Pitch: 3.50 mm
- Number of poles: 4–24
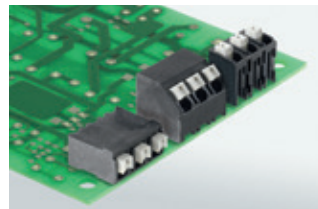- IEC: 400 V / 10 A / 0.14–1.5 mm²
- UL: 150 V / 12.5 A / AWG 26-16

LSF-SMT 3.5 / 3.81
PCB terminal for fully automatic assembly for THR reflow soldering (SMT) and wave soldering.

- PUSH IN spring connection
- Pitch: 3.50 mm / 3.81 mm
- Number of poles: 2–24
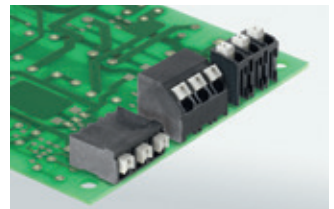- IEC: 320 V / 17.5 A / 0.2–1.5 mm²
- UL: 300 V / 12 A / AWG 24–16

LSF-SMT 5.00 / 5.08
PCB terminal for fully automatic assembly for THR reflow soldering (SMT) and wave soldering.

- PUSH IN spring connection
- Pitch: 5.00 mm / 5.08 mm
- Number of poles: 2–8
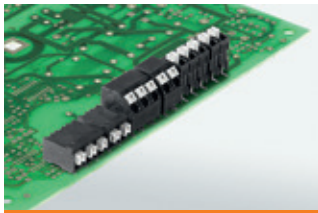- IEC: 500 V / 17.5 A / 0.2–1.5 mm²
- UL: 300 V / 12 A / AWG 24–16

LSF-SMT 7.50 / 7.62
PCB terminal for fully automatic assembly for THR reflow soldering (SMT) and wave soldering.

- PUSH IN spring connection
- Pitch: 7.50 mm / 7.62 mm
- Number of poles: 2–8
- IEC: 800 V / 17.5 A / 0.2–1.5 mm²
- UL: 300 V / 12 A / AWG 24–16

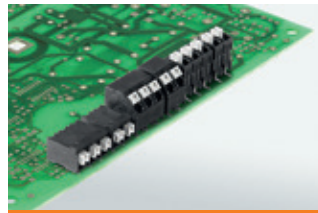## OMNIMATE® Signal – PCB terminals

PUSH IN spring connection

LSF-SMD 3.5
PCB terminal for fully automatic assembly for reflow soldering (SMT).

- PUSH IN spring connection
- Pitch: 3.50 mm
- Number of poles: 2–12
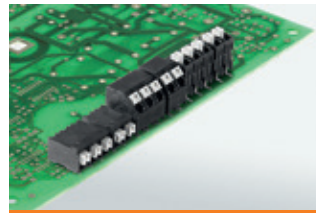- IEC: 320 V / 17.5 A / 0.2–1.5 mm²
- UL: 300 V / 12 A / AWG 24–16

LSF-SMD 5.00
PCB terminal for fully automatic assembly for reflow soldering (SMT).

- PUSH IN spring connection
- Pitch: 5.00 mm
- Number of poles: 2–8
- IEC: 500 V / 17.5 A / 0.2–1.5 mm²
- UL: 300 V / 12 A / AWG 24–16

LSF-SMD 7.50
PCB terminal for fully automatic assembly for reflow soldering (SMT).

- PUSH IN spring connection
- Pitch: 7.50 mm
- Number of poles: 2–6
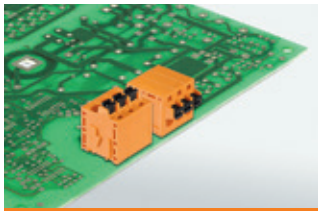- IEC: 800 V / 17.5 A / 0.2–1.5 mm²
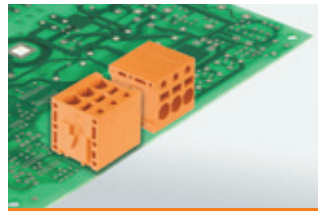- UL: 300 V / 12 A / AWG 24–16

PUSH IN spring connection

LMF 5.00/5.08
PCB terminal with pusher for opening the contact point and an integrated test point.

- PUSH IN spring connection
- Pitch: 5.00 mm / 5.08 mm
- Number of poles: 2–24
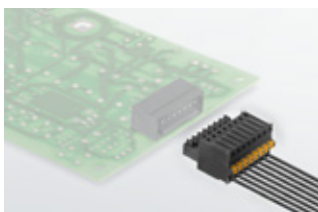- IEC: 400 V / 24 A / 0.2–2.5 mm²
- UL: 300 V / 10 A / AWG 26–12

LMFS 5.00/5.08
PCB terminal without pusher; contact point can be opened using a screwdriver and integrated test point.

- PUSH IN spring connection
- Pitch: 5.00 mm / 5.08 mm
- Number of poles: 2–24
- IEC: 400 V / 24 A / 0.2–2.5 mm²
- UL: 300 V / 10 A / AWG 26–12
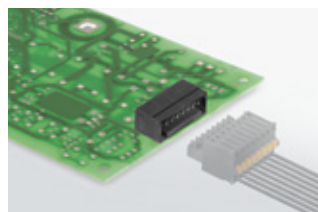
OMNIMATE® Signal – PCB connectors

2.50

BLF 2.50
Female plug for conductor connection with PUSH IN spring connection.

- PUSH IN spring connection
- Pitch: 2.50 mm
- Number of poles: 2-12
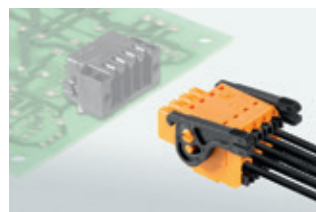- IEC: 320 V / 6 A / 0.08 - 0.5 mm²
- UL: 150 V / 5 A / AWG 28 - 20

SL 2.50
Male header for wave soldering methods for 2.50 mm pitch.

- Male header
- Pitch: 2.50 mm
- Number of poles: 2-12
- IEC: 320 V / 6 A
- UL: 320 V / 6 A

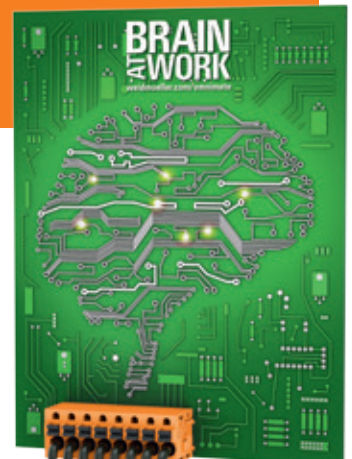### 3.50 double-row design

B2CF 3.50
Compact double-row female plug with maximum connection density within an extremely small space.

- PUSH IN spring connection
- Pitch: 3.50 mm
- Number of poles: 4–36
- IEC: 320 V / 13.4 A / 0.14–1.5 mm²
- UL: 300 V / 9.5 A / AWG 26–16

### Support for each step of your design-in process

Your design process is ambitious and really complex. You need to be able to insert as much reliable information as possible directly into your planning tool. Use our support service for every aspect of your design-in management. Choose from the following services:

- Data sheets
- CAD models
- EDA library
- Handling videos
- Counterpart selector

OMNIMATE® Signal – PCB connectors
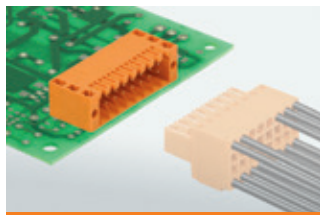
3.50 double-row design
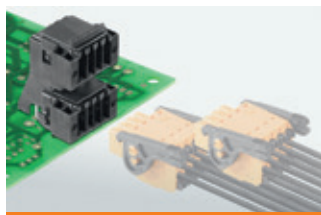
Webcode #01060

S2C 3.50
High-temperature-resistant, double-row male header for reflow and wave soldering methods.

- Male header
- Pitch: 3.50 mm
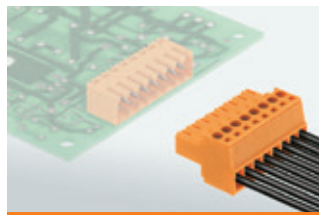- Number of poles: 4–36
- IEC: 200 V / 13.4 A
- UL: 150 V / 10 A

Webcode #01062

S2L 3.50
Double-row male header for wave soldering methods.

- Male header
- Pitch: 3.50 mm
- Number of poles: 6–36
- IEC: 250 V / 10 A
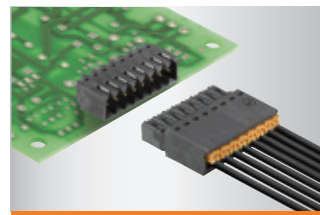- UL: 150 V / 10 A

3.50

Webcode #01066

BL 3.50
Female plug for conductor connection with clamping yoke screw connection.

- Clamping yoke screw connection
- Pitch: 3.50 mm
- Number of poles: 2–24
- IEC: 320 V / 17 A / 0.2–1.5 mm²
- UL: 300 V / 10 A / AWG 28–14
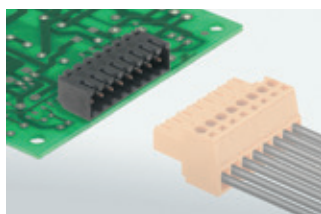

Webcode #11410

BLF 3.5
Female plug with PUSH IN spring connection

Preliminary technical data:
- PUSH IN spring connection
- 3.50 mm pitch
- Pole count: 2–24
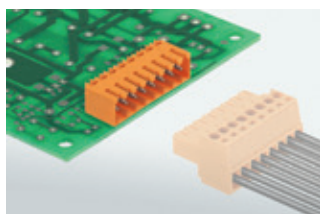- IEC: 320 V / 14.5 A
- UL: 300 V / 9.5 A

3.50

Webcode #01068

SL-SMT 3.50
High-temperature-resistant male header for reflow and wave soldering methods.

- Male header
- Pitch: 3.50 mm
- Number of poles: 2–24
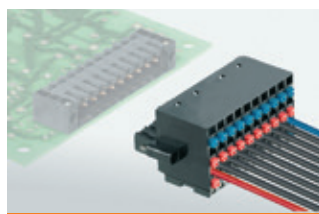- IEC: 320 V / 15 A
- UL: 300 V / 10 A

Webcode #01072

SL 3.50
Male header for wave soldering methods.

- Male header
- Pitch: 3.50 mm
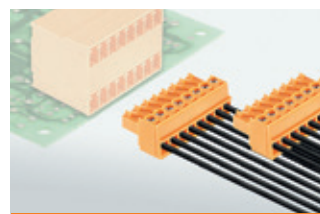- Number of poles: 2–24
- IEC: 320 V / 17 A
- UL: 300 V / 10 A

Webcode #01064

BL-I/O 3.5
Extremely compact female plug in one or three-row design and with an integrated LED display.

- PUSH IN spring connection
- Pitch: 3.50 mm
- Number of poles: 10–30
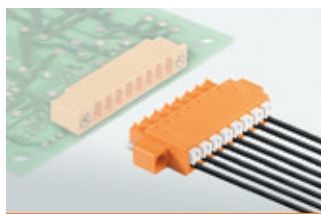- IEC: 200 V / 2.2 A / 0.2–1 mm²
- UL: 50 V / 5 A / AWG 24–16

3.81

Webcode #01074

BCZ 3.81
Compact female plug for conductor connection with clamping yoke screw connection.

- Clamping yoke screw connection
- Pitch: 3.81 mm
- Number of poles: 2–20
- IEC: 320 V / 17.5 A / 0.14–1.5 mm²
- UL: 300 V / 10 A / AWG 28–16

3.81

Webcode #01078

BCF 3.81
Female plug with very low profile for conductor connection with PUSH IN spring connection.

- PUSH IN spring connection
- Pitch: 3.81 mm
- Number of poles: 2–18
- IEC: 320 V / 17.5 A / 0.2–1.5 mm²
- UL: 300 V / 10 A / AWG 28–16

Webcode #01082

BCL-SMT 3.81
High-temperature-resistant female header with a very low profile for reflow soldering methods.

- Female header
- Pitch: 3.81 mm
- Number of poles: 2–12
- IEC: 320 V / 17.5 A
- UL: 300 V / 10 A

Webcode #01076

SC-SMT 3.81
High-temperature-resistant male header with a very low profile for reflow and wave soldering methods.

- Male header
- Pitch: 3.81 mm
- Number of poles: 2–16
- IEC: 320 V / 17.5 A
- UL: 300 V / 10 A

Webcode #11316

SCZ 3.81
Compact male plug for conductor connection with clamping yoke screw connection.

- Clamping yoke screw connection
- Pitch: 3.81 mm
- Number of poles: 2–12
- IEC: 320 V / 17.5 A / 0.14–1.5 mm²
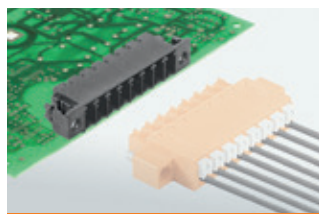- UL: 300 V / 10 A / AWG 28–16

OMNIMATE® Signal – PCB connectors

Webcode #01080

SC 3.81

Male header with a very low profile for wave soldering methods.

- Male header
- Pitch: 3.81 mm
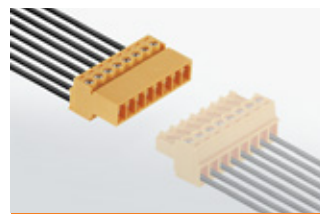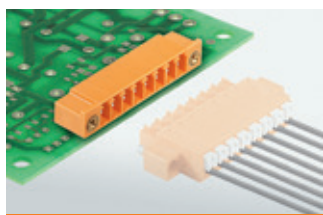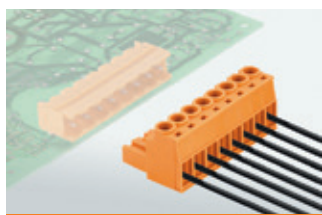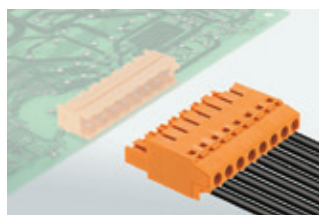- Number of poles: 2–20
- IEC: 320 V / 17.5 A
- UL: 300 V / 10 A

Webcode #01084

BLZP 5.08HC

High-current female plug for conductor connection with 90°, 180° to 225° and 270° outlet direction.

- Clamping yoke screw connection
- Pitch: 5.08 mm
- Number of poles: 2–24
- IEC: 400 V / 23 A / 0.2–4 mm²
- UL: 300 V / 20 A / AWG 30–12

Webcode #01092

BLT 5.08HC

High-current female plug for conductor connection with a straight 180° outlet direction and space for labelling.

- TOP screw connection
- Pitch: 5.08 mm
- Number of poles: 2–24
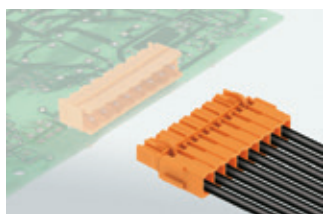- IEC: 400 V / 27 A / 0.2–2.5 mm²
- UL: 300 V / 17 A / AWG 26–14

Webcode #01088

BLF 5.08HC

Compact high-current female plug for conductor outlet directions of 90° to 180° and 270°.

- PUSH IN spring connection
- Pitch: 5.08 mm
- Number of poles: 2–24
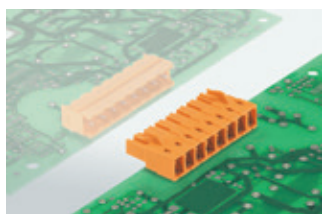- IEC: 400 V / 24 A / 0.2–2.5 mm²
- UL: 300 V / 18.5 A / AWG 26–12

Webcode #01096

BLC 5.08

Female plug to allow for the pre-assembly of wiring harnesses in large quantities.

- Crimp connection system
- Pitch: 5.08 mm
- Number of poles: 2–16
- IEC: 400 V / 21 A
- UL: 300 V / 10 A / AWG 26–14

Webcode #01100

BLL 5.08

Female header for PCB assembly with 90° and 180° outlet direction and optimised solder pin length for wave soldering methods.

- Female header
- Pitch: 5.08 mm
- Number of poles: 2–24
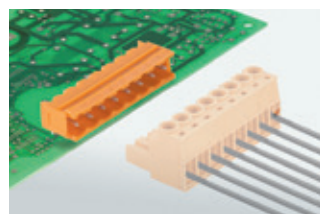- IEC: 400 V / 23 A
- UL: 300 V / 15 A

Webcode #01090

SL-SMT 5.08HC

Highly temperature-resistant angled male header optimised for automatic assembly and for reflow and wave soldering methods.

- Male header
- Pitch: 5.08 mm
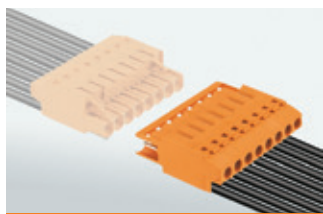- Number of poles: 2–24
- IEC: 400 V / 27.5 A
- UL: 300 V / 18.5 A

Webcode #01094

SL 5.08HC

Male headers in glass-fibre-reinforced plastic, optimised for wave soldering methods.

- Male header
- Pitch: 5.08 mm
- Number of poles: 2–24
- IEC: 400 V / 24 A
- UL: 300 V / 18.5 A

Webcode #01102

SLT 5.08

Male plugs with straight outlet direction provide space for labelling and can be coded.

- TOP screw connection system
- Pitch: 5.08 mm
- Number of poles: 2–16
- IEC: 400 V / 16 A / 0.2–2.5 mm²
- UL: 300 V / 15 A / AWG 26–14
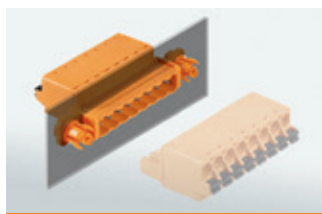
Webcode #01098

SLF 5.08

Male plugs with straight outlet direction provide space for labelling and can be coded.

- PUSH IN spring connection
- Pitch: 5.08 mm
- Number of poles: 2–12
- IEC: 400 V / 25.9 A / 0.2–2.5 mm²
- UL: 300 V / 14 A / AWG 26–12

Webcode #11360

RSV 1.6 C

Rectangular connector for a high component density, for use as a free coupling or a PCB variant.

- Crimp connection system
- Pitch: 5.00 mm
- Number of poles: 4–36
- IEC: 630 V / 17 A
- UL: 600 V / 10 A / AWG 26–12
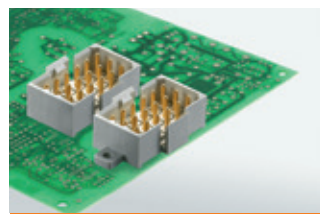
Webcode #01106

RSV 1.6 L

Rectangular connector with solder pin and solder socket contacts for PCB applications.

- Solder pin contacts
- Pitch: 5.00 mm
- Number of poles: 4–36
- IEC: 500 V / 14 A
- UL: 300 V / 10 A

OMNIMATE® Power
Powerful connections with maximum security

New products and innovations help to shake up the market. Many power electronics applications are constantly evolving at a rapid pace, causing the requirements placed on connection systems to increase as well.

As specialists with a great deal of practical experience, we know the maximum power and security requirements that you place on your electronic devices. Our high-performance PCB terminals, PCB connectors and panel feedthrough terminal blocks therefore also comply with applicable device standards such as the IEC 61800 standard for speed-controlled drive technology.

Our Power products also fully achieve 600 volts in accordance with UL standards. PCB terminal blocks with PUSH IN wire connection and application-specific plug-in connectors for motor connection with shield support complete the range.
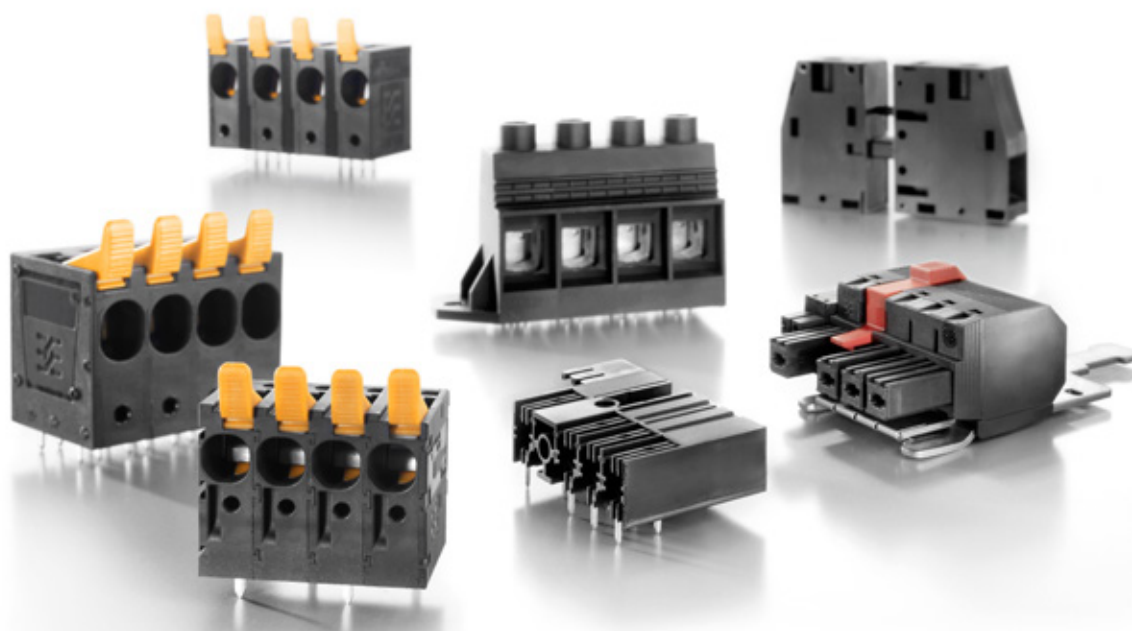
**OMNIMATE® Power
PCB terminals**

PUSH IN
600 V
c⏚Ⓤus

- High-power to 150 A / 1000 V (IEC) or 127 A / 600 V (UL)
- Application-oriented scalability with connection cross-sections from 16 mm² to 50 mm²
- Simple UL device approval up to 600 V
- PUSH IN wire connection up to 16 mm²
- Maintenance-free steel clamping yoke for vibration-resistant screw connections
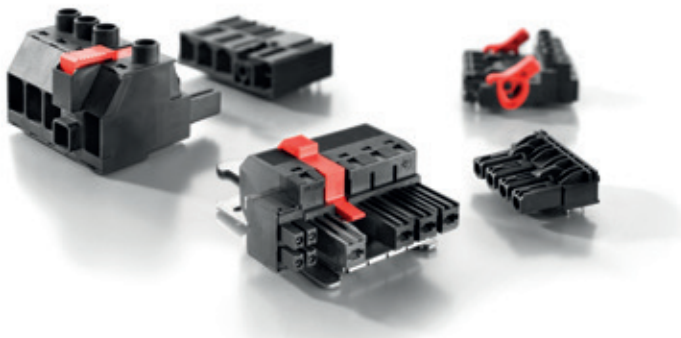
**OMNIMATE® Power
PCB plug-in connectors**

PUSH IN
600 V
c⏚Ⓤus

- Application-oriented scalability: from the compact 4 mm² connector for 29 A (IEC) or 20 A (UL) up to the sturdy 16 mm² connector for 76 A (IEC) or 60 A (UL)
- Unlimited usage up to 1000 V (IEC) or 600 V (UL)
- A variety of application-optimised mounting options
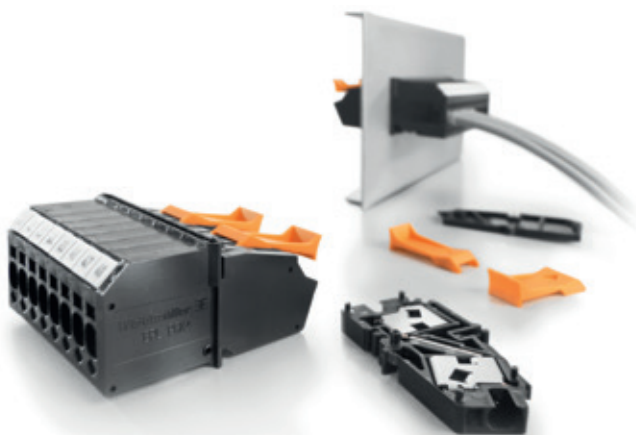
**OMNIMATE® Power
panel feedthrough terminal blocks**

PUSH IN

- Clamping yoke screw connection
- PUSH IN wire connection
- Wall and housing feedthrough
- Simple, flexible and cost-saving assembly and connection of conductors
- Cable lug
- Solder connection

OMNIMATE® Power PCB terminals

PUSH IN spring connection

Webcode #11408

LLF / LLFS 7.5
Highly reliable PCB terminals with integrated test point and conductor outlet direction of 90° and 180°

- PUSH IN spring connection
- Fast wiring without tool (LLF 7.50)
- Pitch: 7.5 mm
- Number of poles: 1-12
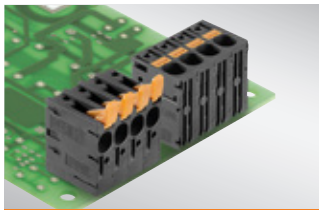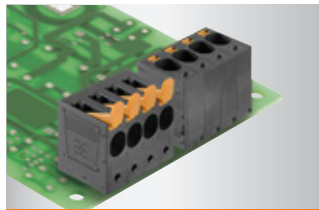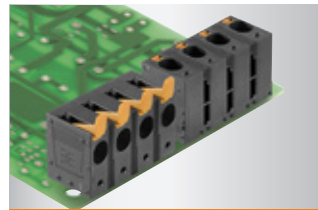- IEC: 1000 V / 41 A / 0.5-6 mm²
- UL: 600 V / 35 A /AWG 24-8

Webcode #01046

LUF / LUFS 10
Highly reliable PCB terminals with integrated test point and conductor outlet direction of 90° and 180°

- PUSH IN spring connection
- Fast wiring without tool (LUF10)
- Pitch: 10.00 mm
- Number of poles: 1-12,
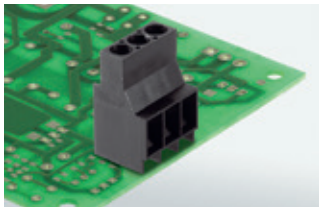- IEC: 1000 V / 76 A / 0.5-16 mm²
- UL: 600 V / 61 A / AWG 18-6

Webcode #11409

LUF / LUFS 15
Highly reliable PCB terminals with integrated test point and conductor outlet direction of 90° and 180°

- PUSH IN spring connection
- Fast wiring without tool (LUF 15)
- Pitch: 15.00 mm
- Number of poles: 2-8
- IEC: 1000 V / 76 A / 0.5-16 mm²
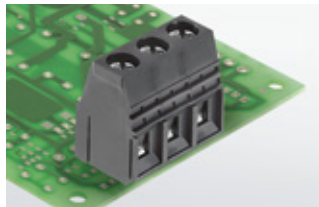- UL: 1000 V / 57 A / AWG 18-6

Clamping yoke screw connection

Webcode #01044

LL 6.35
High-performance PCB terminal with offset solder pins and conductor outlet direction of 90°.

- Clamping yoke screw connection
- Pitch: 6.35 mm
- Number of poles: 2–12
- IEC: 1000 V / 32 A / 0.18–6 mm²
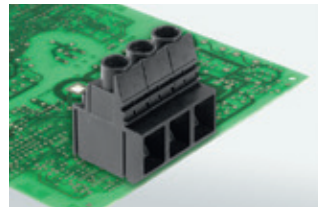- UL: 600 V / 30 A / AWG 26–10

Webcode #01048

LU 10.16
High-performance PCB terminal with offset solder pins and conductor outlet direction of 90°.

- Clamping yoke screw connection
- Pitch: 10.16 mm
- Number of poles: 2–10
- IEC: 1000 V / 76 A / 0.5–16 mm²
- UL: 300 V / 65 A / AWG 26–6

Webcode #01050

LUP 10.16 V with test point
High-performance PCB terminal with integrated test point and conductor outlet direction of 90°.

- Clamping yoke screw connection
- Pitch: 10.16 mm
- Number of poles: 2–9
- IEC: 1000 V / 76 A / 0.5–16 mm²
- UL: 600 V / 51 A / AWG 26–6

Clamping yoke screw connection

Webcode #01052

LUP 12.70 with test point
High-performance PCB terminal with integrated test point and conductor outlet direction of 90°.

- Clamping yoke screw connection
- Pitch: 12.70 mm
- Number of poles: 2–9
- IEC: 1000 V / 76 A / 0.5–16 mm²
- UL: 600 V / 58 A / AWG 26–6

Webcode #01054

LX 15.00 with test point
High-performance PCB terminal with integrated test point and conductor outlet direction of 90°.

- Clamping yoke screw connection
- Pitch: 15.00 mm
- Number of poles: 1–9
- IEC: 1000 V / 101 A / 1.5–25 mm²
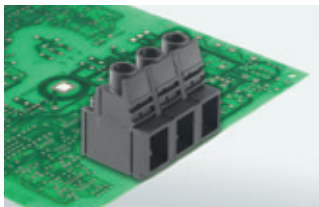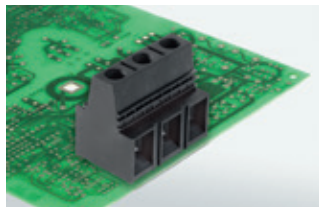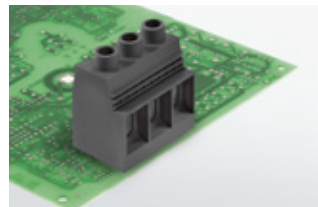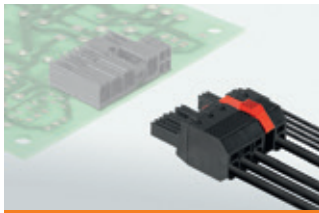- UL: 600 V / 85 A / AWG 16–4

Webcode #01056

LXXX 15.00 with test point
High-performance PCB terminal with integrated test point and conductor outlet direction of 90°.

- Clamping yoke screw connection
- Pitch: 15.00 mm
- Number of poles: 1–9
- IEC: 1000 V / 150 A / 0.5–50 mm²
- UL: 600 V / 127 A / AWG 20–1

OMNIMATE® Power – PCB connectors
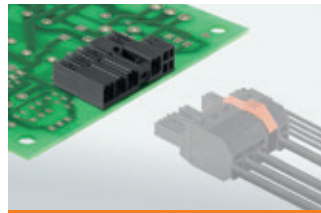
Hybrid

Webcode #01110

BVF 7.62HP hybrid
Hybrid female plug – the perfect 2-in-1 solution for the simultaneous combination of energy and signals. Available with plug-in EMC shield support on request.

- PUSH IN spring connection
- Pitch: 7.62 mm
- Pole count: 2/4–5/8
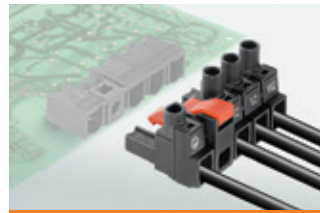- IEC: 1000 V / 38 A / 0.5–10 mm²
- UL: 600 V / 35 A / AWG 24–8

Webcode #01112

SV 7.62 hybrid
Hybrid male header with energy and signal contacts.

- Male header
- Pitch: 7.62 mm
- Pole count: 2/4–5/8
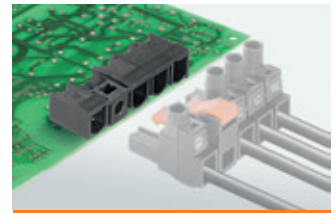- IEC: 1000 V / 41 A
- UL: 300 V / 35 A

IT

Webcode #01114

BLZ 7.62IT
Female plug with 180° outlet direction and touch safety for IT networks with self-locking centre flange.

- Clamping yoke screw connection
- Pitch: 7.62 mm
- Number of poles: 2–6
- IEC: 1000 V / 41 A / 0.2–6 mm²
- UL: 600 V / 40.5 A / AWG 24–8

Webcode #01116

SL 7.62IT
Male header with optional solder flange attachment and with leading contact for computer networks.

- Male header
- Pitch: 7.62 mm
- Number of poles: 2–6
- IEC: 630 V / 29 A
- UL: 300 V / 20 A

IT

Webcode #01118

BVZ 7.62IT
Female plug with 180° outlet direction and touch safety for IT networks with self-locking centre flange.

- Clamping yoke screw connection
- Pitch: 7.62 mm
- Number of poles: 2–4
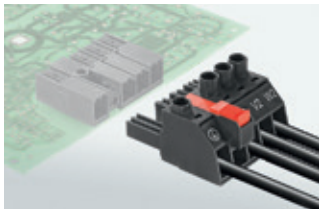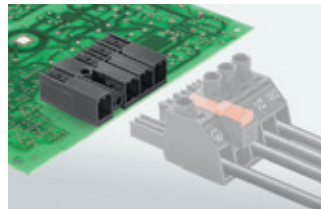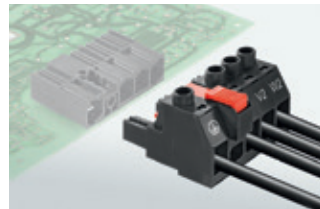- IEC: 1000 V / 41 A / 0.2–6 mm²
- UL: 600 V / 40.5 A / AWG 24–8

Webcode #01120

SV 7.62IT
Male header with optional solder flange attachment and with leading contact for computer networks.

- Male header
- Pitch: 7.62 mm
- Number of poles: 2–4
- IEC: 1000 V / 41 A
- UL: 300 V / 40.5 A

Webcode #01122

BUZ 10.16IT
Female plug with 180° outlet direction and touch safety for IT networks with self-locking centre flange.

- Clamping yoke screw connection
- Pitch: 10.16 mm
- Number of poles: 2–4
- IEC: 1000 V / 78 A / 0.2–16 mm²
- UL: 300 V / 60 A / AWG 22–4
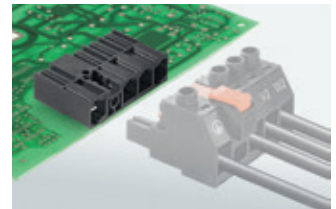
Webcode #01124

SU 10.16IT
Male header with optional solder flange attachment and with leading contact for computer networks.

- Male header
- Pitch: 10.16 mm
- Number of poles: 2–4
- IEC: 1000 V / 76 A
- UL: 300 V / 60 A

7.62
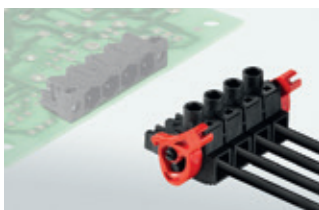
Webcode #01126

BLZ 7.62HP
Female plug with single compartment mating profile with 180° outlet direction and touch protection for HP networks.

- Clamping yoke screw connection
- Pitch: 7.62 mm
- Number of poles: 2–12
- IEC: 630 V / 29 A / 0.2–4 mm²
- UL: 600 V / 20 A / AWG 20–12

Webcode #01128

BLF 7.62HP
Female plug with single compartment mating profile with 180° outlet direction and touch protection for HP networks.

- PUSH IN spring connection
- Pitch: 7.62 mm
- Number of poles: 2–12
- IEC: 1000 V / 24 A / 0.5–2.5 mm²
- UL: 600 V / 20 A / AWG 20–12
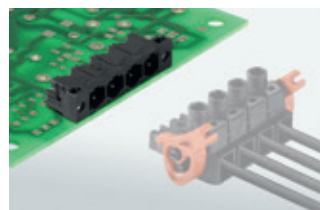
Webcode #01130

SL 7.62HP
Male header with single compartment mating profile and touch protection.

- Male header
- Pitch: 7.62 mm
- Number of poles: 2–12
- IEC: 630 V / 29 A
- UL: 300 V / 20 A

Webcode #01132

SLZ 7.62HP
Male plug with single compartment mating profile with 180° outlet direction as touch-safe solution for the reverse voltage in HP networks.

- Clamping yoke screw connection
- Pitch: 7.62 mm
- Number of poles: 2–5
- IEC: 1000 V / 20 A / 0.5–2.5 mm²
- UL: 600 V / 17 A / AWG 20–12

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7.62

Webcode #01134

SLF 7.62HP

Male plug with single compartment mating profile with 180° outlet direction as touch-safe solution for the reverse voltage in HP networks.

- PUSH IN spring connection
- Pitch: 7.62 mm
- Number of poles: 2–5
- IEC: 1000 V / 24 A / 0.5–2.5 mm²
- UL: 600 V / 20 A / AWG 20–12

Webcode #01136

BLL 7.62HP

Touch-safe female header with single compartment mating profile for the PCB with one-hand safety interlock.

- Female header
- Pitch: 7.62 mm
- Number of poles: 2–5
- IEC: 630 V / 24 A
- UL: 300 V / 20 A

Webcode #01138

BVZ 7.62HP

High-performance female plug for pole-loss-safe attachment or for use with patented multi-function flanges for TNC(S) networks.

- Clamping yoke screw connection
- Pitch: 7.62 mm
- Number of poles: 2–12
- IEC: 1000 V / 41 A / 0.2–6 mm²
- UL: 600 V / 40.5 A / AWG 24–8

Webcode #01140

BVF 7.62HP

High-performance female plug with 180° outlet direction as a touch-safe solution for the power output for TNC(S) networks.

- PUSH IN spring connection
- Pitch: 7.62 mm
- Number of poles: 2–5
- IEC: 1000 V / 41 A / 0.5–10 mm²
- UL: 600 V / 35 A / AWG 24–8

Webcode #01142

SV 7.62HP

High-performance single-row male header for pole-loss-safe attachment or for use with patented multi-function flanges for TNC(S) networks.

- Male header
- Pitch: 7.62 mm
- Number of poles: 2–12
- IEC: 1000 V / 41 A
- UL: 300 V / 40.5 A

Webcode #01144

SVZ 7.62HP

High-performance male plug for pole-loss-safe attachment or for use with patented multi-function flanges for TNC(S) networks.

- Clamping yoke screw connection
- Pitch: 7.62 mm
- Number of poles: 2–7
- IEC: 1000 V / 41 A / 0.2–6 mm²
- UL: 600 V / 35 A / AWG 24–10

Webcode #01146

SVF 7.62HP

High-performance male plug with 180° outlet direction as a three-flange version for the housing feedthrough for TNC(S) networks.

- PUSH IN spring connection
- Pitch: 7.62 mm
- Number of poles: 2–6
- IEC: 1000 V / 41 A / 0.5–10 mm²
- UL: 600 V / 35 A / AWG 24–10

Webcode #01148

BVL 7.62HP

High-performance female header for pole-loss-safe attachment or for use with patented multi-function flanges for TNC(S) networks.

- Female header
- Pitch: 7.62 mm
- Number of poles: 2–7
- IEC: 1000 V / 41 A
- UL: 300 V / 35 A

10.16

Webcode #11407

BUF 10.16IT

High-performance female plug with 180° outlet direction, optionally with multifunction or middle flange for IT power networks.

- PUSH IN spring connection
- 10.16 mm pitch
- Pole count: 2-5
- IEC: 1,000 V / 76 A / 2.5-16 mm²

Webcode #01150

BUZ 10.16HP

High-performance female plug with 180° outlet direction for pole-loss-safe attachment or for use with patented multi-function flanges for TNC(S) networks.

- Clamping yoke screw connection
- Pitch: 10.16 mm
- Number of poles: 2–9
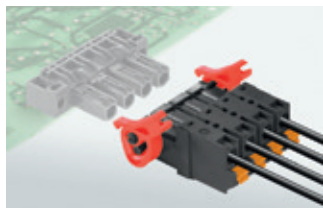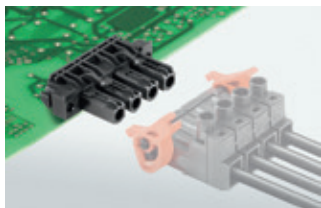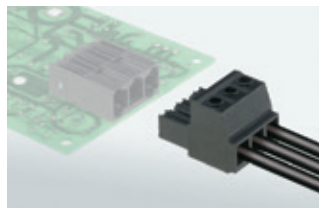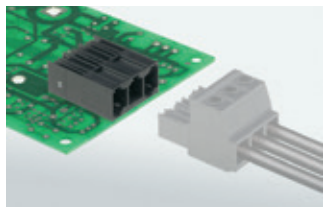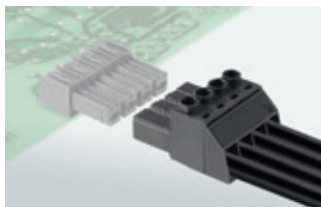- IEC: 1000 V / 78 A / 0.2–16 mm²
- UL: 600 V / 60 A / AWG 22–4
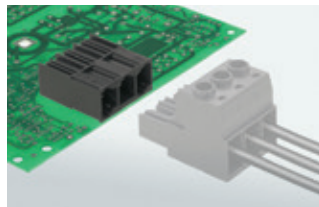
Webcode #01152

SU 10.16HP
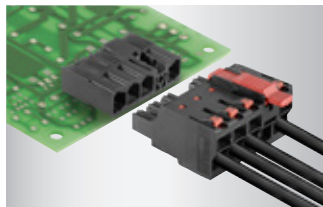
High-performance single-row male header for pole-loss-safe attachment or for use with patented multi-function flanges for TNC(S) networks.

- Male header
- Pitch: 10.16 mm
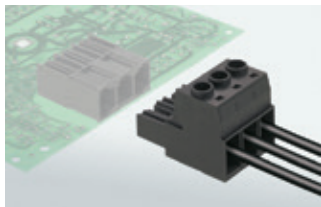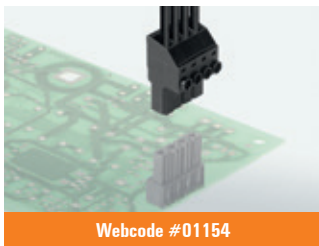- Number of poles: 2–9
- IEC: 1000 V / 76 A
- UL: 300 V / 60 A

OMNIMATE® Power – PCB connectors

10.16

Webcode #01154

SUZ 10.16HP
High-performance male plug with 180° outlet direction and high-strength contact system for TNC(S) networks.

- Clamping yoke screw connection
- Pitch: 10.16 mm
- Number of poles: 2–9
- IEC: 1000 V / 78 A / 0.2–16 mm²
- UL: 600 V / 54 A / AWG 24–6
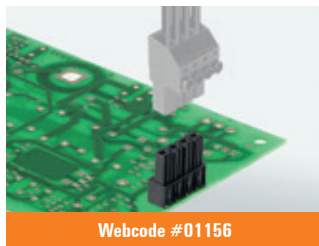
Webcode #01156

BUL 10.16HP
High-performance female header with 180° outlet direction and high-strength contact system for TNC(S) networks.

- Female header
- Pitch: 10.16 mm
- Number of poles: 2–4
- IEC: 1000 V / 76 A
- UL: 300 V / 57 A

OMNIMATE® Power – Feed-through terminals

Webcode #01158

PGK
Device feedthrough terminal blocks with disc design and intuitive locking for a quick and compact solution.

- PUSH IN spring connection
- Connection cross-section: up to 4 mm²
- IEC: 500 V / 32 A / 0.5–4 mm²
- UL: 300 V / 30 A / AWG 24–10
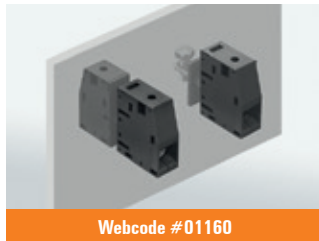
Webcode #01160

WGK
High-current feed-through terminals as a universal solution to guide currents of various scales through the device wall.

- Clamping yoke screw connection
- Connection cross-section: 4 to 95 mm²
- IEC: 1000 V / 232 A / 0.5–95 mm²
- UL: 600 V / 230 A / AWG 24–4/0

72-hour sample service
Design-in samples delivered to any location

With PCB and device designs, there always comes a point at which design engineers need to find exactly the right connection for their application. Just order your design-in samples, quickly and easily. Make the most of the free 72-hour sample service for OMNIMATE®:

1. Select your required sample from the online catalogue
2. Check your enquiry list
3. Enter your contact details and complete your order

You'll receive your OMNIMATE® product samples free of charge within 72 hours.

Webcode #01163

OMNIMATE® Data
Reliable data interfaces for your device

Plug-in connectors and sockets for data transmission are already an integral part of the future-proof device design. In the industrial environment, they have to stand up to exacting requirements and the ever-increasing data transmission rates demand high-quality on individual components.

The Weidmüller data connectors provide convincing solutions. RJ45 and USB plug-in connectors ensure a safe and efficient interface to your device.

The fully shielded product range boasts high levels of electromagnetic compatibility, caters to all established outlet angles, and includes latching hooks on the top and bottom as well as an innovative **STEADY***TEC*® connection system for an industry-standard design.

Benefit from using our coordinated and high-performance components and a wide range of potential applications.
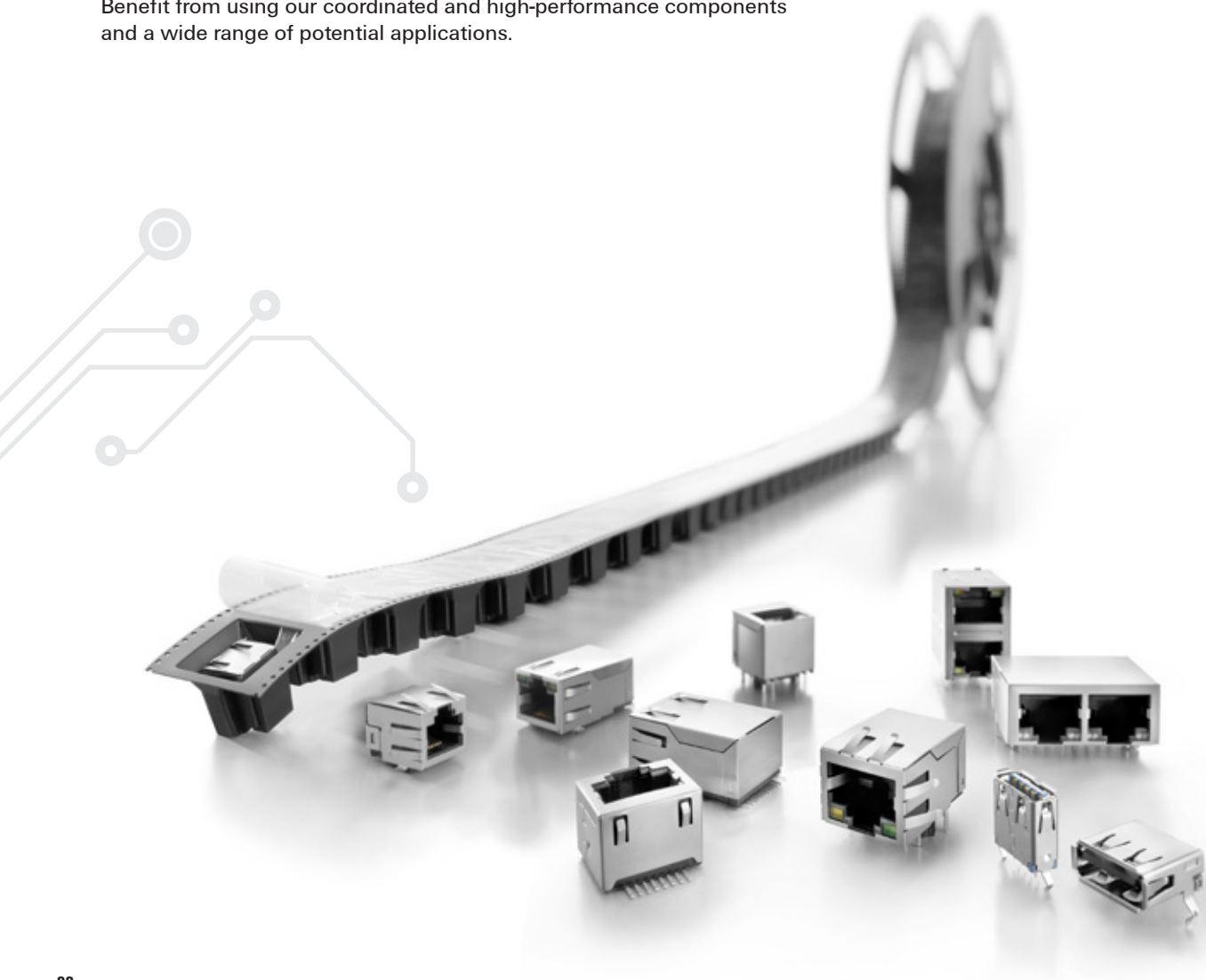
OMNIMATE® Data
RJ45 PCB jacks

- Future-proof transmission characteristics up to Cat 6 standard for a data rate of up to 1 Gbit/s
- Electromagnetic compatibility and protection through 360° shielding
- RJ45 transformer sockets with integrated "magnetics" actively counteract faults and save space on the board
- Reinforced gold layer improves corrosion protection, reduces contact problems and guarantees a long service life
- Many different design types also with integrated LEDs and shield contact lugs
- Extended temperature range from -40 °C to +85 °C for maximum performance

OMNIMATE® Data
USB PCB jacks

- Robust plug & play operation - connect and disconnect without shutting down or restarting the system
- Reinforced gold surface - up to 1,500 plugging cycles meet the requirements for high resistance
- USB 3.0 jacks supported data rate of 5 Gbit/s for fast data transfer
- High rated current of up to 1.5 A provides sufficient safety reserves with a maximum charging current of 0.9 A
- Flexible deployment thanks to the compatibility of USB 3.0 hosts and devices with version 2.0

OMNIMATE® Data – PCB sockets and plug-in connectors

PCB-socket
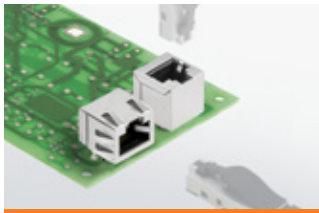
Webcode #11413

RJ45 solder connection for (THT)
PCB socket for wave soldering process

- Outlet direction: 90° und 180°
- Catch mechanism: top and bottom
- Category: up to Cat 6
- Plugging cycles: 750
- With / without LEDs

Webcode #11414

RJ45 solder connection (THR)
PCB socket for reflow and wave soldering process

- Outlet direction: 90° und 180°
- Catch mechanism: top and bottom
- Category: up to Cat 6
- Plugging cycles: 750
- With / without LEDs

Webcode #11415

RJ45 solder connection for (SMT)
PCB socket for reflow soldering process

- Outlet direction: 90° und 180°
- Catch mechanism: top and bottom
- Category: up to Cat 5
- Plugging cycles: 750
- With / without LEDs

RJ45 transformer sockets

Webcode #11416

RJ45 solder connection for (THT)
PCB socket for wave soldering process

- Integrated magnetics
- Outlet direction: 90°
- Catch mechanism: top and bottom
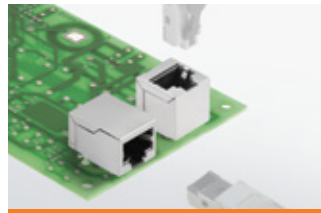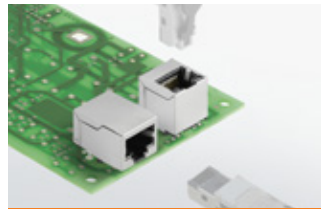- Power class: up to 1Gbit/s
- Plugging cycles: 750

Webcode #11417

RJ45 solder connection (THR)
PCB socket for reflow and wave soldering process

- Integrated magnetics
- Outlet direction: 90° und 180°
- Catch mechanism: top and bottom
- Power class: up to 1Gbit/s
- Plugging cycles: 750
- With / without LEDs

Webcode #11418

RJ45 solder connection (THT) multiport
PCB socket for wave soldering process

- Integrated magnetics
- Outlet direction: 90°
- Catch mechanism: top and bottom
- Power class: up to 1Gbit/s
- Plugging cycles: 750
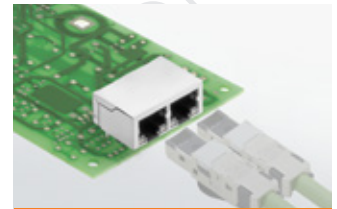
Webcode #11419

RJ45 solder connection (THR) multiport
PCB socket for wave soldering process

- Integrated magnetics
- Outlet direction: 90°
- Catch mechanism: top and bottom
- Power class: up to 1Gbit/s
- Plugging cycles: 750

Plug-in connectors

Webcode #11312

RJ45 connector „steadytec"
Tool-free and field-attachable plug for Industrial Ethernet

- IDC connection, 4-8-core
- Outlet direction: 180°
- Category: Cat.5 and Cat.6$_A$
- AWG 26...AWG 22 / 0.48...0.76 mm²

Webcode #11315

RJ45 connector
Tool-free and field-attachable plug for Industrial Ethernet

- Pierce connection, 4-8-core
- Outlet direction: 90° and 180°
- Category: Cat.5 and Cat.6$_A$
- AWG 27...AWG 24 / 0.46...0.61 mm²

Patch cable

Webcode #11313

RJ45 patch cable
Freely configurable RJ45 cable in a wide range of colours

- Protected latching hook, 8-core
- Outlet direction: 90°, 180° and 270°
- Category: Cat.6$_A$

OMNIMATE® Data – PCB sockets and plug-in connectors

USB Buchsen

Webcode #11420

Webcode #11421

Webcode #11422

USB 3.0/2.0 solder connection (THT)
PCB socket for wave soldering process

- Outlet direction: 90° und 180°
- Power class: up to 5 Gbit/s
- Plugging cycles: ≥1,500
- Packed in tray

USB 3.0 solder connection (THR)
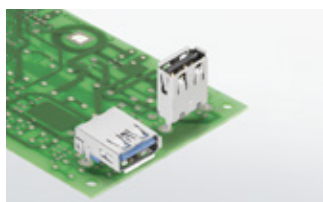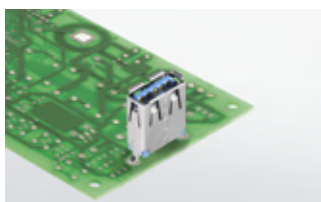PCB socket for reflow and wave soldering process

- Outlet direction: 90° und 180°
- Power class: up to 5 Gbit/s
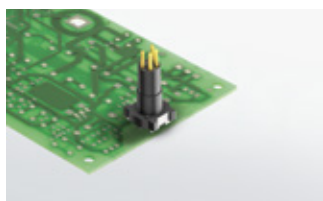- Plugging cycles: ≥1,500
- Packed in tray or ToR

USB 2.0 solder connection for (SMT)
PCB socket for reflow soldering process (SMT)

- Outlet direction: 90° und 180°
- Power class: up to 5 Gbit/s
- Plugging cycles: ≥1,500
- Packed in ToR
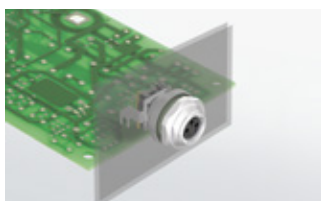
OMNIMATE® Data – M8 and M12 PCB sockets

M8

Webcode #11364

Webcode #11366

Webcode #11368

M8 Dome (individual part)
PCB circular connector for automatic assembly and M8 threads.
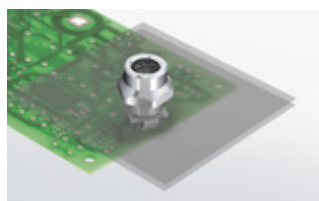
- Number of poles: 3, 4, 8
- Female and male contact
- SMT, THR
- Shielded and unshielded

M8 Front mounting
PCB circular connector with M8 thread for front mounting.

- Number of poles: 3, 4, 8
- Female and male contact
- Outlet direction: 180°
- Shielded and unshielded

M8 Rear panel mounting
PCB circular connector with M8 thread for rear panel mounting.

- Number of poles: 3, 4, 8
- Female and male contact
- Outlet direction: 90°, 180°
- Shielded and unshielded

M12

Webcode #11352
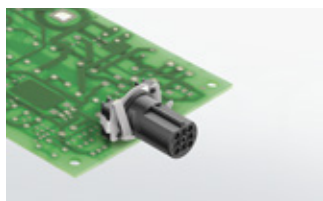
Webcode #11354

Webcode #11356

M12 Dome (individual part)
PCB circular connector for automatic assembly and M12 threads.

- Number of poles: 4, 5, 8
- Female and male contact
- SMT
- Shielded and unshielded
- Coding: A, B, D
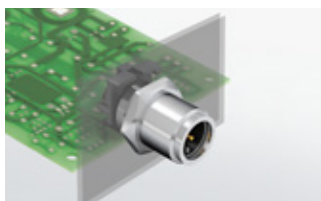
M12 Front mounting
PCB circular connector with M12 thread for front mounting.

- Number of poles: 4, 5, 8
- Female and male contact
- Outlet direction: 90°, 180°
- Shielded and unshielded
- Coding: A, B, D, X
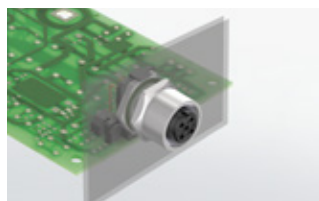
M12 Front mounting
PCB circular connector with M12 thread for front mounting.

- Number of poles: 4, 5, 8
- Female and male contact
- Outlet direction: 90°, 180°
- Shielded and unshielded
- Coding: A, B, D, X

Sensor-actuator interface product configurator

The sensor-actuator-interface cable configurator allows you to custom-create assembled SAI cables (sensor/bus cables) according to your requirements and specifications. You have the choice of configuring a cable which is identical on both ends, or with two different mating profiles, or with one end left open. The cable configurator can also automatically create technical data sheets for all of your customised cable variants.

Webcode #11363

OMNIMATE® Housings
The perfect platform for form and function

Modern and innovative electronics housings owe their success to the synergy between design, connection technologies and functionality. With OMNIMATE® Housings, we offer you the right housings to meet your requirements perfectly.

Weidmüller's electronics provide a state-of-the-art platform for electronics applications: for all design types and usage areas. The application and its requirements are the foundation for the housing design.

Component housings using the standard pitch sizes are particularly well suited for standardised electrical cabinet applications. The CH20M product series is primarily designed for high-spec applications and meets strict requirement profiles, for instance in the areas of machine safety and high-performance signal converters.
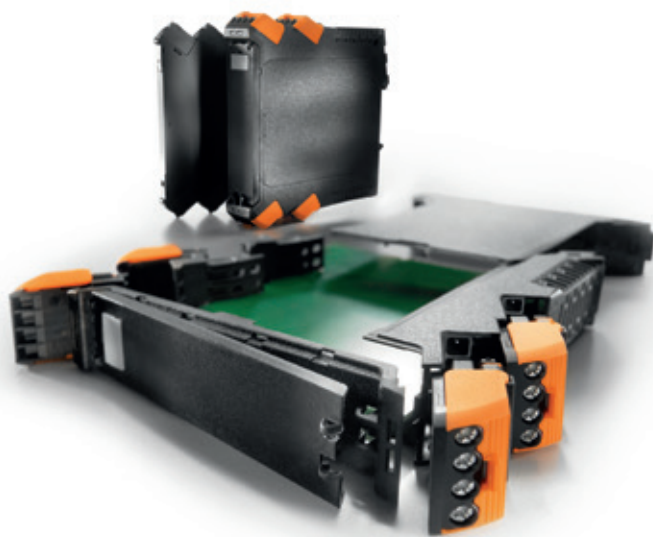
OMNIMATE® Housings
CH20M - Modular Component Housing

- Systematic modularity- from head (plate) to (clip-on) foot
- Excellent scalability - 7 different widths, from 6.1 - 67.5 mm
- Maximized security: with leading-pin contact and captive coding system -
- Unlimited continuity - a unified design for all pitch widths
- Very compact size - up to 4 connection levels - with eject lever
- Complete process security - SMT/THR connection components packaged in Tape-on-Reel and an optimized PCB design
- Maximized efficiency - with the optimized use of PCB surface space

OMNIMATE® Housings
"Tailor-made suits straight off the rack" for application-specific solutions

Hinged cover

BHZ female plug

BHZ female plug

Frontelement

SIDE element

SIDE element

SHL-SMT male header, left version

SHL-SMT male header, right version

BASE element optional with bus cut-out or FE cut-out
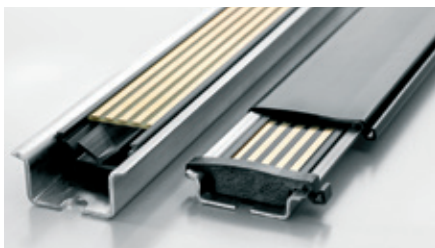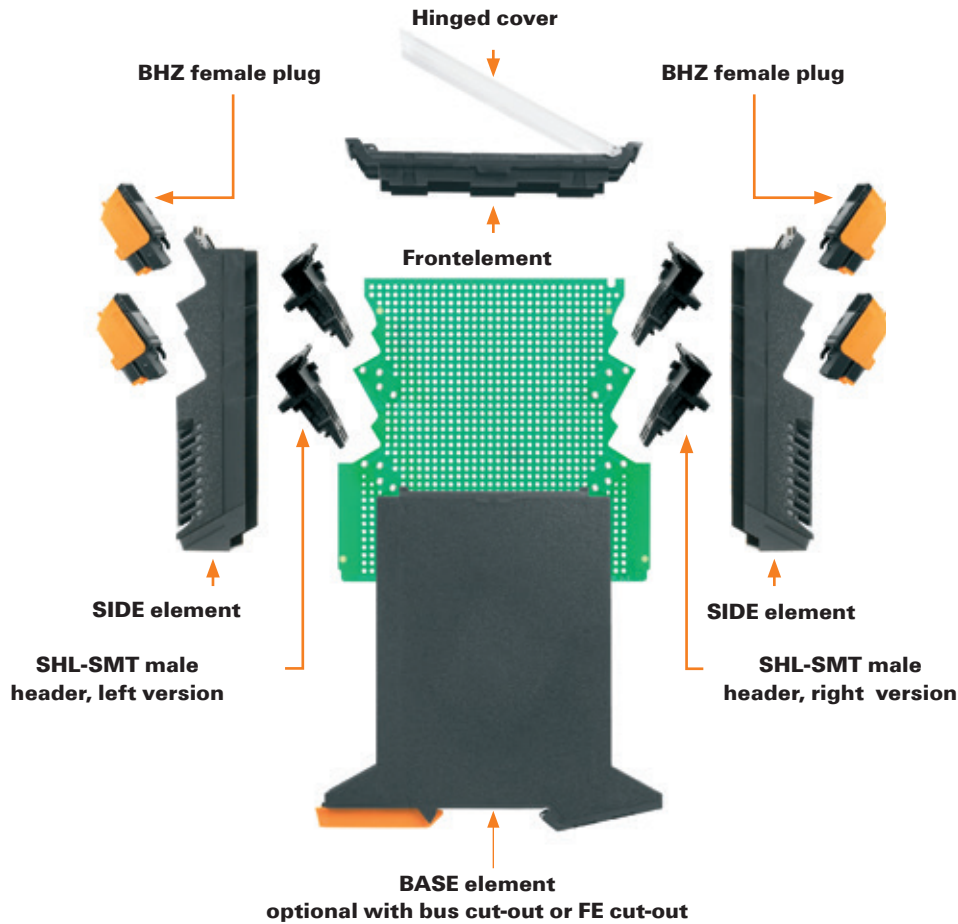
Unlimited configuration

Compatible: the individual modules can be positioned anywhere on any TS-35 standard top-hat rail. Unused areas are safely covered.
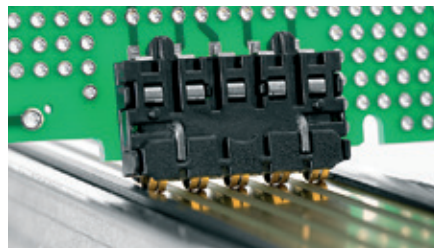
Maximum availability

Reliable: Five fully-galvanised and partially gold-plated twin-arched contacts are used to establish a permanent contact to the rail bus. THR solder flanges ensure that the connection to the circuit board is stable.

The right connection technology

When considering design options, processing, usability, reliability and security, the PCB terminals or pin headers and connectors are just as important in the practice as the entire system.

OMNIMATE® Housing – CH20M

CH20M

Webcode #11317

CH20M6

The tailor-made solution for a wide application spectrum. Fits in any terminal strip.

- Housing width: 6.1 mm
- Connection levels on each side: 4
- Connectable conductors: 8
- Connection technology reflow-compatible: yes
- Circuit board capacity: 1
- Variable circuit board positions: no

Webcode #11318

CH20M12

The "small" option amongst the "large" housing solutions for compact electronics applications.

- Housing width: 12.5 mm
- Connection levels on each side: 3
- Connectable conductors: 12
- Connection technology reflow-compatible: yes
- Circuit board capacity: 1
- Variable circuit board positions: yes

Webcode #11319

CH20M17

Ideal housing solution for compact standard electronics applications.

- Housing width: 17.5 mm
- Connection levels on each side: 3
- Connectable conductors: 18
- Connection technology reflow-compatible: yes
- Circuit board capacity: 1
- Variable circuit board positions: yes

Webcode #11320

CH20M22

Standard format with optimal width for most typical electronics applications.

- Housing width: 22.5 mm
- Connection levels on each side: 3
- Connectable conductors: 24
- Connection technology reflow-compatible: yes
- Circuit board capacity: 1
- Variable circuit board positions: yes

CH20M

Webcode #11321

CH20M45

Extra-large size for electronics applications that require more space, such as compact controllers and power supplies.

- Housing width: 45 mm
- Connection levels on each side: 3
- Connectable conductors: 48
- Connection technology reflow-compatible: yes
- Circuit board capacity: 2
- Variable circuit board positions: yes

Webcode #11322

CH20M67

XXL size for those electronics applications that require lots of space, such as compact controllers and power supplies.

- Housing width: 67.5 mm
- Connection levels on each side: 3
- Connectable conductors: 72
- Connection technology reflow-compatible: yes
- Circuit board capacity: 3
- Variable circuit board positions: yes

Female header for application-specific configuration of CH20M enclosure solutions

Webcode #11426

BHF 5.00

Female plugs with PUSH IN connection in 5.00 mm pitch

- PUSH IN technology for ease of operation
- Protection against incorrect connection due to coding system with "AutoSet" function
- Direct connection of conductors with wire-end ferrules and single wires up to 2.5 mm²
- Leading male header contact
- Finger-safe on both sides

Webcode #11427

BHZ 5.00

Female plugs with clamping-yoke connection in 5.00 mm pitch

- Clamping yoke screw connection with "WireReady", "WireGuard" protection and plus/minus screw
- Protection against incorrect connection due to coding system with "AutoSet" function
- Leading contact on the male headers
- Finger-safety provided for both, male and female connector

Shape design-in processes in a uniquely efficient way
Our services make sure you get perfect results

They develop connection systems for PCBs and devices based on the final application. Our specialists will gladly provide you with really concrete support with your design-in process, with expertise, advice and a range of useful services.

Our design-in application specialists know your working environment intimately and will support you from the specifications stage right through to series production of your individual solution. Not only will you benefit from our OMNIMATE® services such as the product configurator with 3D models available for download, or the unparalleled 72-hour sample service for your free design-in samples; you'll also have access to a wide range of additional services designed to make your day-to-day work quicker, easier and more professional.

72-hour sample service

Webinars on practical issues

Whitepaper

With PCB and device designs, there always comes a point at which design engineers need to find exactly the right connection for their application. Just order your design-in samples, quickly and easily. Make the most of the free 72-hour sample service for OMNIMATE®. Wherever you're situated, we always keep our word and deliver your samples to the desired location within 72 hours.

Exciting online seminars on relevant issues relating to device connection systems will help you with the practical aspects of your project, from device design to integration into modern drive modules or how to reduced engineering costs. All webinar services are free of charge. You can find out dates, topics and presenters quickly and easily using the corresponding webcode.

Find out detailed information and interesting facts about trend topics in the field of device connectivity in our Whitepaper section.
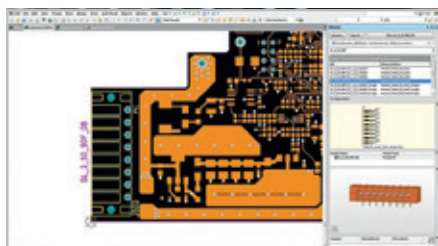
Component library for electronic PCB design

Switching symbols and the painstaking creation of footprints are now things of the past. We offer extensive component libraries of OMNIMATE® PCB terminals and PCB conectors for a wide range of different EDA systems. Simply download and import the data set and you're ready to go.

CAD models in the Part Community

CAD models for our OMNIMATE® PCB connection systems can be found in one of the industry's most important online forums. The "Part Community" allows engineers and technicians to trade knowledge on technical topics in all fields. The Community's online catalogue contains the exact dimensions and all other relevant data for our products.
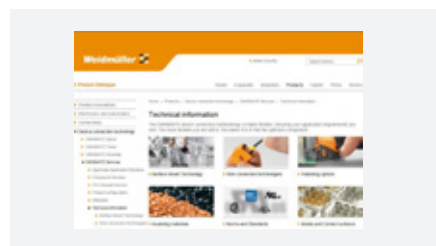
Technical information

The OMNIMATE® device connection methodology is highly flexible, ensuring your application requirements are met. The more familiar you are with it, the easier it is to find the optimum component.

Weidmüller YouTube channel

Did you know? You can find a range of useful handling videos about our products, as well as exciting company insights, on our YouTube channel. Have a look and subscribe to our channel today!

On-site advice by application specialists

We develop connection systems for PCBs and devices based on the application. And if you can involve us in your development at an early stage – even better. As part of our personal on-site customer consultancy service, our application specialists will meet with your technicians to discuss questions and problems relating to your project, and will assist you with their comprehensive expertise.

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.

Made in Germany