## Printed Circuit Board Terminals

Weidmüller's ever expanding range of printed circuit board terminals have been designed to cater for the many varied application requirements faced by todays Design Engineers.

To solve these needs, we have produced a range of pcb terminals that offer a wide selection of clamping techniques, cable entry angles, multiple levels for higher density requirements, pitch spacing from 3.50 mm to 15.00 mm, cable acceptance up to 25.0 $mm^2$, high current and high voltage possibilities.

The terminals features are complimented by a range of accessories that complete our comprehensive range.

**Product features overview:**

- voltages up to 1000 V,
  currents up to 101 A,
  conductor cross-section up to 25.0 $mm^2$
- pitches from 3.50 to 15.00 mm
- wide selection of clamping techniques
- different cable entry angles
- multiple levels for higher density

## The easy way to the right PCB Terminal

**Select the:**

**1. Rated cross-section**

❑ ≤ 1.5 mm² ❑ ≤ 2.5 mm² ❑ ≤ 4.0 mm² ❑ ≤ 10.0 mm² ❑ ≤ 25.0 mm²

**2. 2. Pitch**

❑ 3.50 mm ❑ 5.00 mm ❑ 7.50 mm ❑ 10.00 mm ❑ 15.00 mm

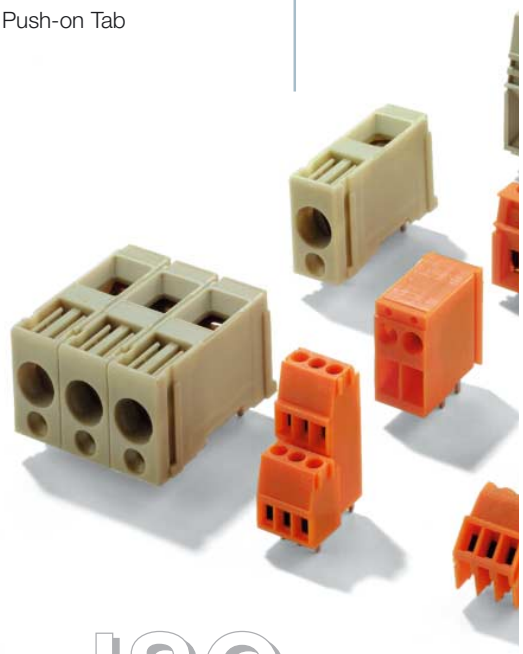
❑ 5.08 mm ❑ 6.35 mm ❑ 7.62 mm ❑ 9.52 mm ❑ 10.16 mm

**3. Orientation (cable entry angle)**

❑ 90° ❑ 135° (45°) ❑ 180°

**5. Connection techniques**

❑ Leaf Spring ❑ Screw Clamp ❑ Tension Clamp ❑ TOP ❑ Push-on Tab



**Colours**

We supply most terminals as standard in:

● orange ● black ● grey

Please consult the product section for exact availability of colours.

ISO 9000 ff

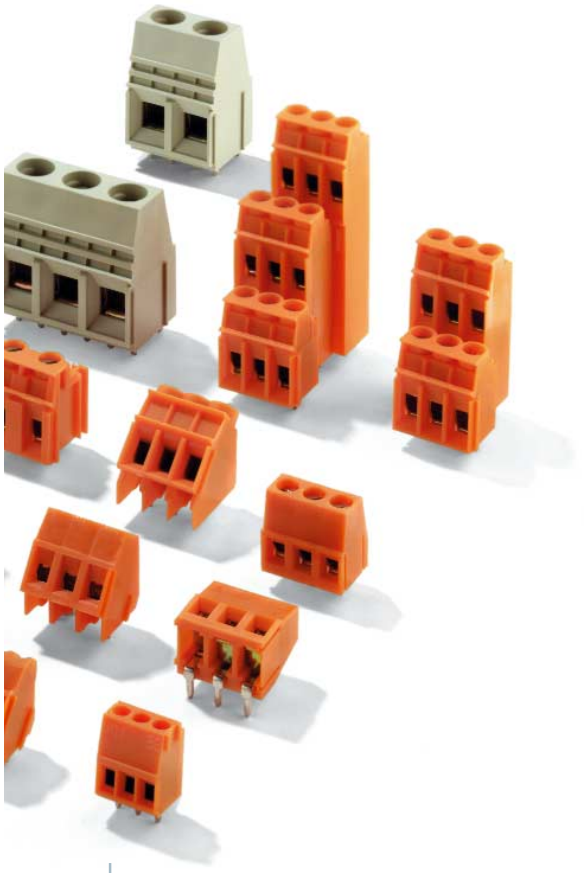
## We are there to solve your problems:

This catalogue presents a selection of our mainline PCB Terminal range. With these you will be able to cover most applications.
If you do however find that the product you need for your particular application is not listed here, please contact your nearest Weidmüller Sales Engineer or Representative. They will be only too pleased to advise you. In addition to the products here, we have specialised products and, in addition, we can fulfil most requests for different pin lengths and special colours.

### Reliable connections

**Screw clamp - tension clamp**

We supply the best connection for every application. All connection systems, whether screw clamp or tension clamp are 100 % reliable, maintenance-free and easy to use.



### Materials

Weidmüller products use insulation materials which have proved highly efficient in the electrical engineering sector.

Polyamide like PA 66 is one of the most frequently used technical plastic. PA 66 achieves the flammability class V-2 according to UL 94.

### Practical accessories

A well thought-out range of accessories are the perfect complement to our PCB terminals.

With our light guides you can mount the LED on a protected part of the PCB and still retain full visibility of the LED status. Our disconnection and fuse elements help you overcome board-construction difficulties.

Marking strips and tags ensure clarity of the connections. Fixing blocks, cross-connections, test plugs and tools round off the range.

## Product Selection Matrix

| | | Rated-cross-section | ≤ 1.5 mm² | | | | |
|---|---|---|---|---|---|---|---|
| | | Pitch in mm | 3.50 | 5.00 | 5.08 | 7.50/7.62 | 5.00 |
| **Construction** | **Orientation** | **Connection** | | | | | |
| single-level | 90° | Leaf spring | | | PM 5.08/90 p. 12 | | |
| | | Screw clamp | LM 3.5/90 p. 13 | LM 5.00/90 p. 15 | LM 5.08/90 p. 16 | | LP 5.00/90 p. 23 |
| | | TOP connection | | | TOP 1.5GS/90 p. 21 | TOP 1.5GS/90 p. 22 | |
| | | Push-on tab | | | | | GSF 5/90 p. 36 |
| | | Tension clamp | | | LMZF 5.08/90 p. 19 | | |
| | 90° with test point | Screw clamp | | | | | LPP 5.00/90 p. 23 |
| | 90° disconnection element w. test point | | | | | | |
| | 90° raised profile | Screw clamp | LM1N 3.5/90 p. 13 | | LM1N 5.08/90 p. 16 | | LP1N 5.00/90 p. 23 |
| | 90° high profile | Screw clamp | | | LM1H 5.08/90 p. 16 | | |
| | 135° | Leaf spring | | | MK8 5.08/135 p. 12 | MK7.5/135 p. 12 | |
| | | Screw clamp | LM 3.5/135 p. 13 | LM 5.00/135 p. 15 | LM 5.08/135 p. 17 | | |
| | | Tension clamp | | | LMZF 5.08/135 p. 19 | | |
| | 135° with test point | Screw clamp | | | | | LP 5.00/135 p. 24 |
| | 180° | Screw clamp | | LM 5.00/180 p. 15 | LM 5.08/180 p. 17 | | LP 5.00/180 p. 24 |
| | | TOP connection | | | TOP 1.5GS/180 p. 21<br>LMT 5.08/180 p. 21 | TOP 1.5GS/180 p. 22 | |
| | | Push-on tab | | | | | GSF 5/180 p. 37 |
| | | Tension clamp | | | LMZF 5.08/180 p. 19 | | |
| | 180° with test point | Screw clamp | | | | | |
| double-level | 90° offset left | Screw clamp | LM2N 3.5/90 p. 14 | | LM2N 5.08/90 p. 17 | | LP2N 5.00/90 p. 24 |
| | 90°, high, offset left | Screw clamp | | | LM2H 5.08/90 p. 18 | | |
| | 90°, high, offset right | Screw clamp | | | | | |
| | 135° | Tension clamp | | | LM2NZF 5.08/135 p. 20 | | |
| triple-level | 90° | Screw clamp | | | LM3R 5.08/90 p. 18 | | |
| | 135° | Tension clamp | | | LM3RZF 5.08/135 p. 20 | | |

| ≤ 2.5 mm² | | | | | ≤ 4 mm² | | | ≤ 10 mm² | ≤ 25 mm² |
|---|---|---|---|---|---|---|---|---|---|
| 5.08 | 7.50 | 7.62 | 10.00 | 15.00 | 6.35 | 7.62 | 9.52 | 10.16 | 15.00 |
| | | | | | | | | | |
| | | | | | | | | | |
| LP 5.08/90 p. 25 | LP 7.50/90 p. 29 | LP 7.62/90 p. 30 | LP 10.00/90 p. 32 | LP 15.00/90 p. 32 | | | LL 9.5 p. 33 | LU 10.16/90 p. 35 | |
| | | | | | TOP4GS/90 p. 33 | TOP4GS/90 p. 34 | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| LPP 5.08/90 p. 25 | LPP 7.50/90 Sp. 29 | LPP 7.62/90 p. 31 | | | | | | | LX 15.00/90 p. 36 |
| LPTR 5.08/90 p. 28 | | | | | | | | | |
| LP1N 5.08/90 p. 25 | | | | | | | | | |
| LP1H 5.08/90 p. 26 | | | | | | | | | |
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| LP 5.08/135 p. 26 | LP 7.50/135 S. 29 | LP 7.62/135 p. 31 | | | | | | | |
| LP 5.08/180 p. 26 | LP 7.50/180 S. 30 | LP 7.62/180 p. 31 | | | | | | | |
| | | | | | TOP4GS/180 p. 33 | TOP4GS/180 p. 34 | | | |
| | | | | | | | | | |
| LPZF 5.08/180 p. 20 | | | | | | | | | |
| | | | | | | | | GSE 10/180 p. 35 | |
| LP2N 5.08/90 p. 27 | | | | | | | | | |
| LP2H 5.08/90 p. 27 | | | | | | | | | |
| LP2HR 5.08/90 p. 27 | | | | | | | | | |
| | | | | | | | | | |
| LP3R 5.08/90 p. 28 | | | | | | | | | |
| | | | | | | | | | |

# Product Features

**Quick and reliable product selection**

**There is nothing easier than finding the right PCB terminal, quickly and reliably - at least from Weidmüller.**

This catalogue offers the right PCB terminal for every wire cross-section and for every voltage range. There are just 2 easy steps to finding the right PCB terminal for your particular application:

1. List the exact requirements
2. Choose the desired terminal

The selection matrix contains all relevant information needed to quickly find the right terminal. Once you've established which product, go to the page indicated to obtain all the important data including the catalogue number for easy ordering.

**Determining the requirements for your particular application**

The application determines the cross-section of the wire. The electrical ratings (voltage and current) determine the pitch. The constructional specifications will determine the orientation of the wire to and from the board.

Additional functions to suit the application could include a test point or an LED.

**Wire cross-section**

Weidmüller supplies PCB terminals for rated cross-sections ≤ 1.5 $mm^2$, ≤ 2.5 $mm^2$, ≤ 4.0 $mm^2$, ≤ 10.0 $mm^2$ and ≤ 25.0 $mm^2$.

Please see the upper row of the product selection matrix for the cross-sections.

Weidmüller terminals permit various wire orientations. Depending on the application, you can choose between 90°, 135° and 180°.

**90°** - wire parallel to the board

**135°** - wire at 135° (45°) to the board

**180°** - wire perpendicular to the board

Single-level, double-level and triple-level terminals are available with the following orientations and construction features.

| Single-level: | Double-level: | Triple-level: |
|---|---|---|
| 90°, 135° (45°), 180° | 90°, 135° (45°) | 90°, 135° (45°) |

**Pitches**

The operating voltage of the circuits and the current loading determine the creepages and clearances. These two parameters determine in turn the pitch you will require. The selection matrix lists the available pitches for each wire cross-section.

Please note when you are assembling your PCB that the rated data given in this catalogue refer exclusively to the connection elements. In accordance with VDE 0110 you will need to maintain the necessary creepage and clearance distances within your application. DIN IEC 326 Part 3 should be adhered to when determining the current loading for the PCB.

**Connection systems**

Weidmüller offers you a choice of five different connection techniques:

1. Leaf spring connection
2. Screw clamp connection
3. Tension clamp connection
4. TOP connection
5. Push-on tab connection

### Modular and block construction

Our PCB terminals are available both in modular and in block construction. The 1, 2, 3 and 4 pole terminals have a dovetail on the side and can be built up to multipole blocks by the customer. On request we can also provide multipole blocks ex factory. The modular products can be supplied with in the desired pole length.

### Printed circuit board terminals in block design

| | | | |
|---|---|---|---|
| PM 5.08 | MK8 | MK7.5 | |
| LM 3.5/90 | LM1N 3.5/90 | LM 3.5/135 | LM2N 3.5/90 |
| LM 5.00/90 | LM 5.00/135 | LM 5.00/180 | |
| LM 5.08/90 | LM1N 5.08/90 | LM1H 5.08/90 | LM 5.08/135 |
| LM 5.08/180 | LM2N 5.08/90 | LM2H 5.08/90 | LM3R 5.08/90 |
| TOP 1.5GS 5.08/90 | TOP 1.5GS 5.08/180 | | GSF5 |
| LP/90 all pitches | LP/135 all pitches | LP/180 all pitches | LP1N all pitches |
| LP1H 5.08 | LP2N 5.08/90 | LP2H 5.08/90 | LP3R 5.08/90 |
| LPTR 5.08/90 | LL 9.5 | GSE 10 | LU 10.16 |
| LX 15.00 | | | |

### Printed circuit board terminals in modular design

| | | | |
|---|---|---|---|
| LMZF 5.08/90 | LMZF 5.08/135 | LMZF 5.08/180 | |
| LM2NZF 5.08/135 | LM3RZF 5.08/135 | LPZF 5.08/180 | LMT 5.08 |
| TOP 1.5GS 7.62/90 | TOP 1.5GS 7.62/180 | | |
| TOP 4GS 6.35/90 | TOP 4GS 6.35/180 | TOP 4GS 7.62/90 | TOP 4GS 7.62/180 |

### Test points

For some applications it can be important to know if the connection is live.

For this purpose Weidmüller supplies various single-level PCB terminals with integrated test point.

### Leaf spring connection

The leaf spring connection is the simplest screw type connection.

### Screw clamp connection

This is the ultimate in screw connection technology: absolutely maintenance-free, large contact surface, superior locking force, and easy to handle. With the screw clamp connector the wire is at 90° to the screw.

### Tension clamp connection

When speed is essential, this is your choice. A clamp that is quick to wire, maintenance-free, and easy to handle. With the tension clamp the wire is parallel to the clamp opening tool.

### TOP connection

This is the screw connector where the wire is parallel to the screw. A pressure clamp of tempered steel ensures high contact force and a gas-tight connection.

### Push-on tab connection

The tab sleeve with the crimped conductor is pushed onto the terminal tab. The contact force is generated by the tab sleeve.

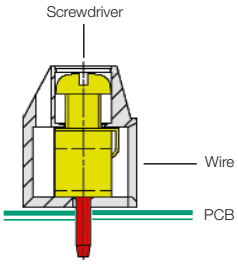
### True to pitch

The application determines the number of wires being connected and the number of connections (poles) required.

The maximum number depends on the manufacturing tolerances. Good true-to-pitch permit a higher continuous number of poles.

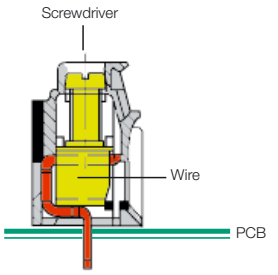
## Single-level, low 90°

### Leaf spring connection



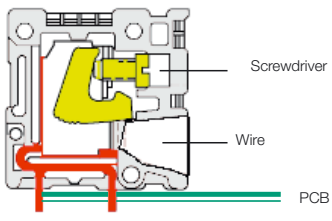

The wire is introduced parallel to the PCB. The clamping screw is perpendicular to the PCB.

### Tension clamp connection




The wire is introduced parallel to the PCB. The clamping screw is perpendicular to the PCB.

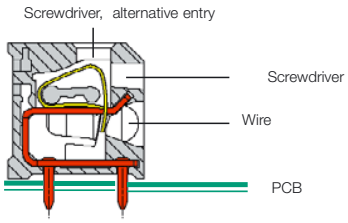
### TOP connection




The wire and the clamping screw are parallel to the PCB.

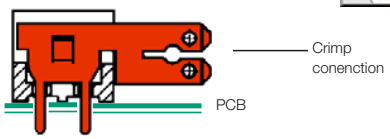
## Single-level, low 90°

### Tension clamp connection




The wire and the tension spring displacement entry are parallel to the PCB. There is also an alternative displacement entry at 90° to the wire entry.

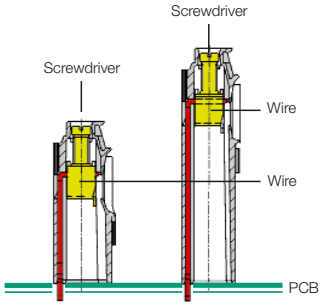
### Push-on tab connection




The tab sleeve with the crimped conductor is pushed onto the terminal tab parallel to the PCB.

## Single-level, raised and high 90°

### Screw clamp connection

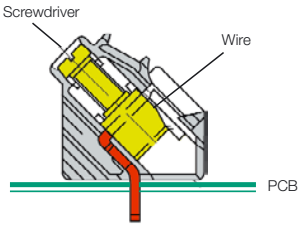



The wire is introduced parallel to the PCB. The clamping screw is perpendicular to the PCB. This PCB terminal is for customers who wish to assemble multi-row versions inhouse or also for PCB's that are to be lacquer-coated.

**Because of the increased height, the customer will need to ensure adequate supports on the board for this type of terminal.**

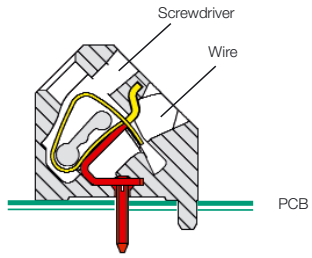
## Single-row, 135°

### Screw clamp connection



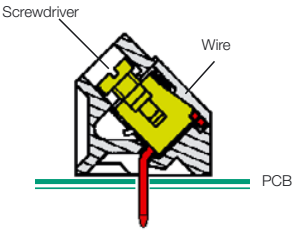

The wire is introduced at 135° (45°) to the PCB. The clamping screw is at 45° ( 135°) to the PCB.

### Tension clamp connection




The wire is introduced at an angle of 135° (45°) to the PCB. The spring displacement entry is parallel to the wire. There is also an alternative displacement entry at 90° to the wire entry.

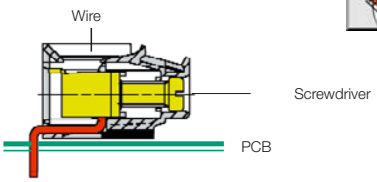
### Leaf spring connection




The wire is introduced at 135° (45°) to the PCB. The clamping screw is at 45° ( 135°) to the PCB.

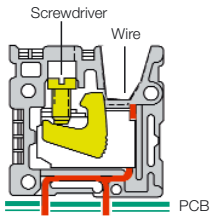
## Single-level, 180°

### Screw clamp connection



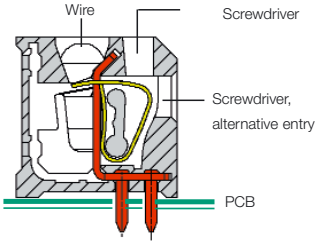

The wire is introduced perpendicular to the PCB. The clamping screw is parallel to the PCB.

### TOP connection



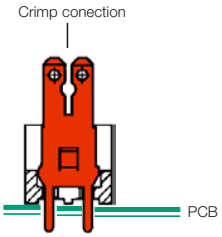

The wire is inserted perpendicular to the PCB, and parallel to the clamping screw.

### Tension clamp connection




The wire and the spring displacement entry are perpendicular to the PCB. The terminals also have an alternative displacement entry at 90° to the wire entry.

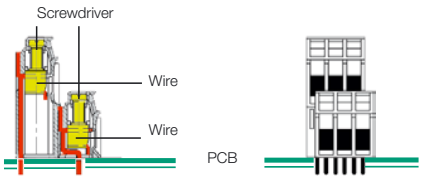
### Push-on tab connection




The tab sleeve with the crimped conductor is pushed onto the terminal tab perpendicular to the PCB.

## Double-level, low 90°

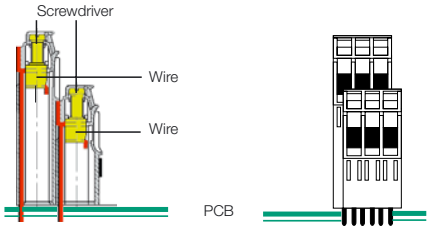
### Screw clamp connection Offset left




The wires are introduced parallel to the PCB. The upper level wire entry is offset to the left of the lower level. The clamping screws are perpendicular to the PCB.

## Double-level, high 90°

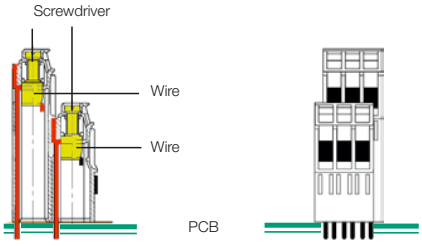
### Screw clamp connection Offset left




The wires are introduced parallel to the PCB. The upper-level wire entry is offset to the left of the lower level. The clamping screws are perpendicular to the PCB.

## Double-level, high 90°

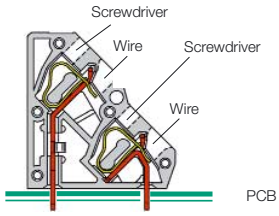
### Screw clamp connection Offset right




The wires are introduced parallel to the PCB. The upper level entry wires is offset to the right of the lower level.
The clamping screws are perpendicular to the PCB.

## Double-level, 135°

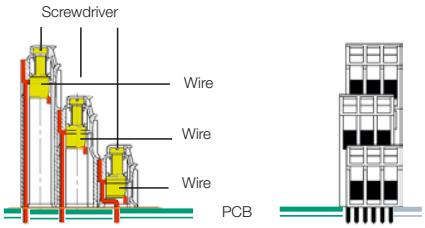
### Tension clamp connection




The wires are introduced at 135° (45°) to the PCB. The upper level wire entry is offset to the left of the lower level.

## Triple-level, 90°

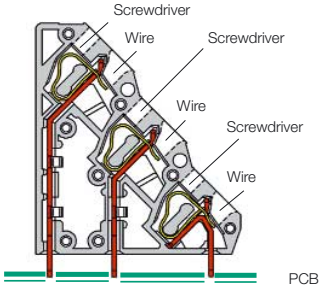
### Screw clamp connection




The wires are introduced parallel to the PCB. The middle-level wire entry is offset to the left of the lower and upper levels. The clamping screws are perpendicular to the PCB.

## Triple-level, 135°

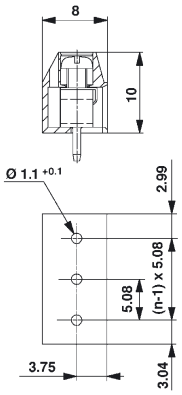
### Tension clamp connection




The wires are introduced at 135° (45°) to the PCB. The middle-level wire entry is offset to the left of the other levels.

## Rated cross-section ≤ 1.5 mm²

### PM 5.08/90


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 17.5 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 50

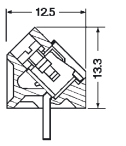
**Solder pin length** 3.5 mm 3.5 mm

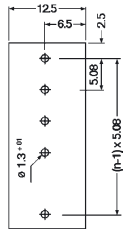
**Colour**

| Poles | Type | Cat. No. | Cat. No. | Qty. |
|---|---|---|---|---|
| 2 | PM 5.08/2/90 | **1760490000** | **1760510000** | 500 |
| 3 | PM 5.08/3/90 | **1760500000** | **1760520000** | 500 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

### MK8 5.08/135


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 160* | 150 | 150 |
| **Rated current** | A | 16 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 51

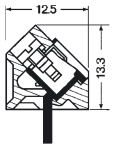
**Solder pin length** 5.0 mm

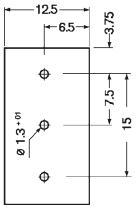
**Colour**

| Poles | Type | Cat. No. | Qty. |
|---|---|---|---|
| 2 | MK 8/2 | **0332060000** | 200 |
| 3 | MK 8/3 | **0307860000** | 100 |
| 4 | MK 8/4 | **0307760000** | 100 |
| 10 | MK 8/10 | **0302660000** | 50 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

### MK7.5/135


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 16 | 16 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 16 | 16 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 51

**Solder pin length** 5.0 mm

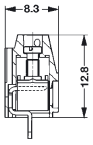
**Colour**

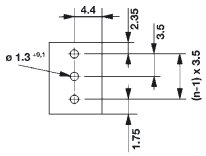
| Poles | Type | Cat. No. | Qty. |
|---|---|---|---|
| 3 | MK 7.5/3 | **0379260000** | 100 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

# Rated cross-section ≤ 1.5 mm²

## LM 3.5/90


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 125* | 300 | 300 |
| **Rated current** | A | 12 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

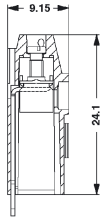
*Overvoltage category III / Pollution severity 3

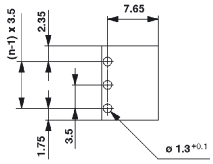
Additional technical data see page 52

| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LM 3.5/2/90 | **1667750000** | **1699670000** | 100 |
| 3 | LM 3.5/3/90 | **1667770000** | **1699680000** | 100 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

## LM1N 3.5/90


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 125* | 300 | 300 |
| **Rated current** | A | 10 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

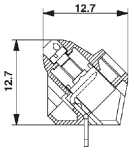
Additional technical data see page 52

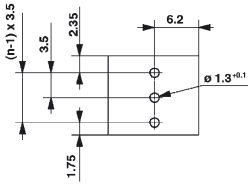
| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LM1N 3.5/2 | **1716710000** | **1747380000** | 100 |
| 3 | LM1N 3.5/3 | **1716720000** | **1747390000** | 100 |

**Attention: Customers are advised to ensure support for LM1N on the printed circuit board.**

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

## LM 3.5/135


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 125* | 300 | 300 |
| **Rated current** | A | 12 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

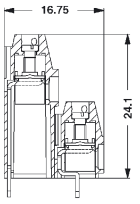
Additional technical data see page 52

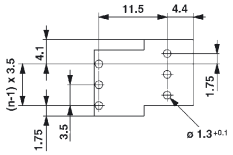
| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LM 3.5/2/135 | **1714980000** | **1715010000** | 100 |
| 3 | LM 3.5/3/135 | **1715020000** | **1715050000** | 100 |

| Accessories | Page |
|---|---|
| Marking | - |
| Fixing | - |
| Miscellaneous | - |

# Rated cross-section ≤ 1.5 mm²

## LM2N 3.5/90




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 125* | 300 | 300 |
| **Rated current** | A | 10 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 52

**Solder pin length** **3.2 mm** **4.5 mm**

**Colour**

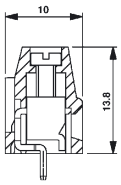
| Poles | Type | Cat. No. | Cat. No. | Qty. |
|---|---|---|---|---|
| 4 | LM2N 3.5/4 | **1703700000** | **1720000000** | 100 |
| 6 | LM2N 3.5/6 | **1703710000** | **1720010000** | 100 |
| 8 | LM2N 3.5/8 | **1703720000** | **1720020000** | 50 |
| 10 | LM2N 3.5/10 | **1703730000** | **1720030000** | 50 |
| 12 | LM2N 3.5/12 | **1703740000** | **1720040000** | 50 |
| 14 | LM2N 3.5/14 | **1703750000** | **1720050000** | 50 |
| 16 | LM2N 3.5/16 | **1703760000** | **1720060000** | 50 |
| 18 | LM2N 3.5/18 | **1703770000** | **1720070000** | 50 |
| 20 | LM2N 3.5/20 | **1703780000** | **1720080000** | 50 |
| 22 | LM2N 3.5/22 | **1703790000** | **1720090000** | 25 |
| 24 | LM2N 3.5/24 | **1703800000** | **1720100000** | 25 |
| 26 | LM2N 3.5/26 | **1703810000** | **1720110000** | 25 |
| 28 | LM2N 3.5/28 | **1703820000** | **1720120000** | 25 |
| 30 | LM2N 3.5/30 | **1703830000** | **1720130000** | 25 |
| 32 | LM2N 3.5/32 | **1703840000** | **1720140000** | 25 |
| 34 | LM2N 3.5/34 | **1703850000** | **1720150000** | 25 |
| 36 | LM2N 3.5/36 | **1703860000** | **1720160000** | 25 |
| 38 | LM2N 3.5/38 | **1703870000** | **1720170000** | 25 |
| 40 | LM2N 3.5/40 | **1703880000** | **1720180000** | 25 |
| 42 | LM2N 3.5/42 | **1703890000** | **1720190000** | 25 |
| 44 | LM2N 3.5/44 | **1703900000** | **1720200000** | 25 |
| 46 | LM2N 3.5/46 | **1703910000** | **1720210000** | 25 |
| 48 | LM2N 3.5/48 | **1703920000** | **1720220000** | 25 |

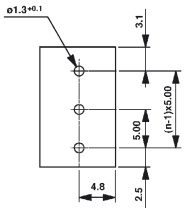
| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

# Rated cross-section ≤ 1.5 mm²



## LM 5.00/90


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 17.5 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

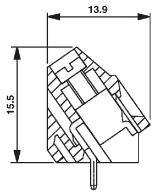
*Overvoltage category III / Pollution severity 3

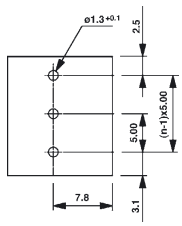
Additional technical data see page 53

| Solder pin length | | 3.5 mm | 3.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LM 5.00/2/90 | **1715310000** | **1715250000** | 500 |
| 3 | LM 5.00/3/90 | **1715320000** | **1715260000** | 500 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

## LM 5.00/135


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 17.5 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

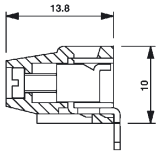
*Overvoltage category III / Pollution severity 3

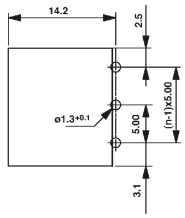
Additional technical data see page 53

| Solder pin length | | 3.5 mm | 3.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LM 5.00/2/135 | **1715350000** | **1715290000** | 500 |
| 3 | LM 5.00/3/135 | **1715360000** | **1715300000** | 500 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

## LM 5.00/180


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 17.5 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

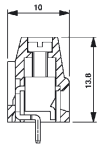
Additional technical data see page 53

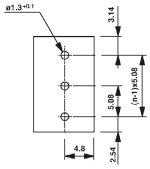
| Solder pin length | | 3.5 mm | 3.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LM 5.00/2/180 | **1715330000** | **1715270000** | 500 |
| 3 | LM 5.00/3/180 | **1715340000** | **1715280000** | 500 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

## Rated cross-section ≤ 1.5 mm²


### LM 5.08/90




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 17.5 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 53

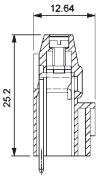
**Solder pin length** 3.5 mm 3.5 mm

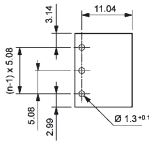
**Colour**

| Poles | Type | Cat. No. | Cat. No. | Qty. |
|---|---|---|---|---|
| 2 | LM 5.08/2/90 | **1716080000** | **1716020000** | 500 |
| 3 | LM 5.08/3/90 | **1716090000** | **1716030000** | 500 |

### LM1N 5.08/90

new




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 16 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 53

**Solder pin length** 3.5 mm 3.5 mm

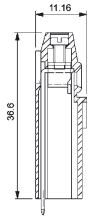
**Colour**

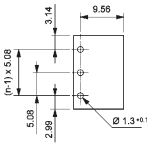
| Poles | Type | Cat. No. | Cat. No. | Qty. |
|---|---|---|---|---|
| 2 | LM1N 5.08/2/90 | **1766300000** | **1766320000** | 500 |
| 3 | LM1N 5.08/3/90 | **1766310000** | **1766330000** | 500 |

**Attention: Customers are advised to ensure support for LM1N on the printed circuit board.**

### LM1H 5.08/90

new




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 16 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 53

**Solder pin length** 3.5 mm 3.5 mm

**Colour**

| Poles | Type | Cat. No. | Cat. No. | Qty. |
|---|---|---|---|---|
| 2 | LM1H 5.08/2/90 | **1766360000** | **1766380000** | 250 |
| 3 | LM1H 5.08/3/90 | **1766370000** | **1766390000** | 250 |

**Attention: Customers are advised to ensure support for LM1H on the printed circuit board.**

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

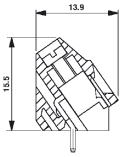

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

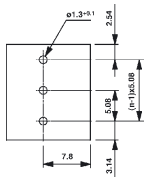
| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

# Rated cross-section ≤ 1.5 mm²



## LM 5.08/135


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 17.5 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

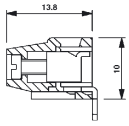
*Overvoltage category III / Pollution severity 3

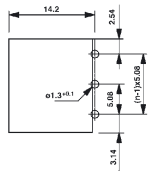
Additional technical data see page 53

| Solder pin length | | 3.5 mm | 3.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LM 5.08/2/135 | **1716120000** | **1716060000** | 500 |
| 3 | LM 5.08/3/135 | **1716130000** | **1716070000** | 500 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

## LM 5.08/180


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 17.5 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

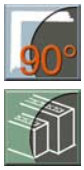
*Overvoltage category III / Pollution severity 3

Additional technical data see page 53

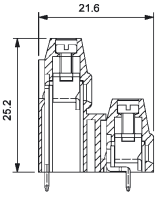
| Solder pin length | | 3.5 mm | 3.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LM 5.08/2/180 | **1716100000** | **1716040000** | 500 |
| 3 | LM 5.08/3/180 | **1716110000** | **1716050000** | 500 |

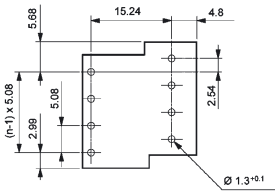
| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

## LM2N 5.08/90








| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 15.5 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 53

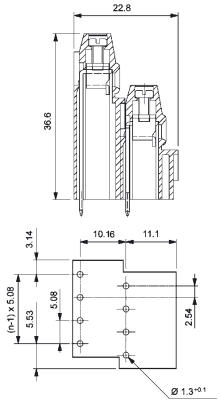
| Solder pin length | | 3.5 mm | 3.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 4 | LM2N 5.08/4 | **1768850000** | **1769080000** | 50 |
| 6 | LM2N 5.08/6 | **1768860000** | **1769090000** | 50 |
| 8 | LM2N 5.08/8 | **1768870000** | **1769100000** | 50 |
| 10 | LM2N 5.08/10 | **1768880000** | **1769110000** | 50 |
| 12 | LM2N 5.08/12 | **1768890000** | **1769120000** | 50 |
| 14 | LM2N 5.08/14 | **1768900000** | **1769130000** | 50 |
| 16 | LM2N 5.08/16 | **1768910000** | **1769140000** | 20 |
| 18 | LM2N 5.08/18 | **1768920000** | **1769150000** | 20 |
| 20 | LM2N 5.08/20 | **1768930000** | **1769160000** | 20 |
| 22 | LM2N 5.08/22 | **1768940000** | **1769170000** | 20 |
| 24 | LM2N 5.08/24 | **1768950000** | **1769180000** | 10 |
| 26 | LM2N 5.08/26 | **1768960000** | **1769190000** | 10 |
| 28 | LM2N 5.08/28 | **1768970000** | **1769200000** | 10 |
| 30 | LM2N 5.08/30 | **1768980000** | **1769210000** | 10 |
| 32 | LM2N 5.08/32 | **1768990000** | - | 10 |
| 34 | LM2N 5.08/34 | **1769000000** | - | 10 |
| 36 | LM2N 5.08/36 | **1769010000** | - | 10 |
| 38 | LM2N 5.08/38 | **1769020000** | - | 10 |
| 40 | LM2N 5.08/40 | **1769030000** | - | 10 |
| 42 | LM2N 5.08/42 | **1769040000** | - | 10 |
| 44 | LM2N 5.08/44 | **1769050000** | - | 10 |
| 46 | LM2N 5.08/46 | **1769060000** | - | 10 |
| 48 | LM2N 5.08/48 | **1769070000** | - | 10 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

# Rated cross-section ≤ 1.5 mm²


## LM2H 5.08/90

new




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 15 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

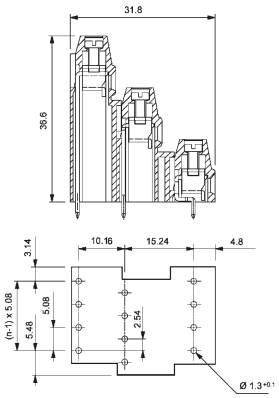
Additional technical data see page 53

| Solder pin length | | 3.5 mm | 3.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 4 | LM2H 5.08/4 | **1769240000** | **1769470000** | 50 |
| 6 | LM2H 5.08/6 | **1769250000** | **1769480000** | 50 |
| 8 | LM2H 5.08/8 | **1769260000** | **1769490000** | 50 |
| 10 | LM2H 5.08/10 | **1769270000** | **1769500000** | 50 |
| 12 | LM2H 5.08/12 | **1769280000** | **1769510000** | 20 |
| 14 | LM2H 5.08/14 | **1769290000** | **1769520000** | 20 |
| 16 | LM2H 5.08/16 | **1769300000** | **1769530000** | 20 |
| 18 | LM2H 5.08/18 | **1769310000** | **1769540000** | 20 |
| 20 | LM2H 5.08/20 | **1769320000** | **1769550000** | 20 |
| 22 | LM2H 5.08/22 | **1769330000** | **1769560000** | 20 |
| 24 | LM2H 5.08/24 | **1769340000** | **1769570000** | 10 |
| 26 | LM2H 5.08/26 | **1769350000** | **1769580000** | 10 |
| 28 | LM2H 5.08/28 | **1769360000** | **1769590000** | 10 |
| 30 | LM2H 5.08/30 | **1769370000** | **1769600000** | 10 |
| 32 | LM2H 5.08/32 | **1769380000** | - | 10 |
| 34 | LM2H 5.08/34 | **1769390000** | - | 10 |
| 36 | LM2H 5.08/36 | **1769400000** | - | 10 |
| 38 | LM2H 5.08/38 | **1769410000** | - | 10 |
| 40 | LM2H 5.08/40 | **1769420000** | - | 10 |
| 42 | LM2H 5.08/42 | **1769430000** | - | 10 |
| 44 | LM2H 5.08/44 | **1769440000** | - | 10 |
| 46 | LM2H 5.08/46 | **1769450000** | - | 10 |
| 48 | LM2H 5.08/48 | **1769460000** | - | 10 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

## LM3R 5.08/90

new




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 13.5 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

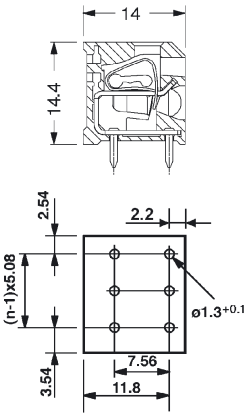
Additional technical data see page 53

| Solder pin length | | 3.5 mm | 3.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 6 | LM3R 5.08/6 | **1769620000** | **1769930000** | 50 |
| 9 | LM3R 5.08/9 | **1769630000** | **1769940000** | 50 |
| 12 | LM3R 5.08/12 | **1769640000** | **1769950000** | 50 |
| 15 | LM3R 5.08/15 | **1769650000** | **1769960000** | 25 |
| 18 | LM3R 5.08/18 | **1769660000** | **1769970000** | 25 |
| 21 | LM3R 5.08/21 | **1769670000** | **1769980000** | 25 |
| 24 | LM3R 5.08/24 | **1769680000** | **1769990000** | 20 |
| 27 | LM3R 5.08/27 | **1769690000** | **1770000000** | 20 |
| 30 | LM3R 5.08/30 | **1769700000** | **1770010000** | 10 |
| 33 | LM3R 5.08/33 | **1769710000** | **1770020000** | 10 |
| 36 | LM3R 5.08/36 | **1769720000** | **1770030000** | 10 |
| 39 | LM3R 5.08/39 | **1769730000** | **1770040000** | 10 |
| 42 | LM3R 5.08/42 | **1769740000** | **1770050000** | 10 |
| 45 | LM3R 5.08/45 | **1769750000** | **1770060000** | 10 |
| 48 | LM3R 5.08/48 | **1769760000** | - | 10 |
| 51 | LM3R 5.08/51 | **1769770000** | - | 10 |
| 54 | LM3R 5.08/54 | **1769780000** | - | 10 |
| 57 | LM3R 5.08/57 | **1769790000** | - | 10 |
| 60 | LM3R 5.08/60 | **1769800000** | - | 10 |
| 63 | LM3R 5.08/63 | **1769810000** | - | 10 |
| 66 | LM3R 5.08/66 | **1769820000** | - | 10 |
| 69 | LM3R 5.08/69 | **1769830000** | - | 10 |
| 72 | LM3R 5.08/72 | **1769840000** | - | 10 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

# Rated cross-section ≤ 1.5 mm²

## LMZF 5.08/90




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 14 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

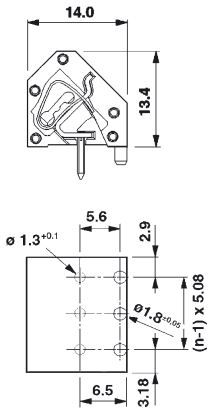
*Overvoltage category III / Pollution severity 3

Additional technical data see page 54

| Solder pin length | | 2.8 mm | 4.1 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LMZF 5.08/2/90 | **1701430000** | **1721640000** | 100 |
| 3 | LMZF 5.08/3/90 | **1701440000** | **1721650000** | 100 |
| 4 | LMZF 5.08/4/90 | **1721370000** | **1721660000** | 100 |
| 5 | LMZF 5.08/5/90 | **1701450000** | **1721670000** | 50 |
| 6 | LMZF 5.08/6/90 | **1721380000** | **1721680000** | 50 |
| 7 | LMZF 5.08/7/90 | **1721390000** | **1721690000** | 50 |
| 8 | LMZF 5.08/8/90 | **1721400000** | **1721700000** | 50 |
| 9 | LMZF 5.08/9/90 | **1721410000** | **1721710000** | 25 |
| 10 | LMZF 5.08/10/90 | **1721420000** | **1721720000** | 25 |
| 11 | LMZF 5.08/11/90 | **1721430000** | **1721730000** | 25 |
| 12 | LMZF 5.08/12/90 | **1721440000** | **1721740000** | 25 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

## LMZF 5.08/135




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 14 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

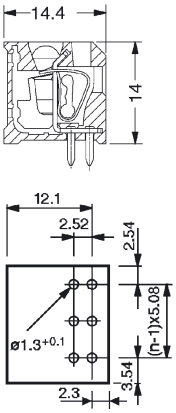
*Overvoltage category III / Pollution severity 3

Additional technical data see page 54

| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LMZF 5.08/2/135 | **1714590000** | **1734220000** | 100 |
| 3 | LMZF 5.08/3/135 | **1715180000** | **1734230000** | 100 |
| 4 | LMZF 5.08/4/135 | **1715190000** | **1734240000** | 100 |
| 5 | LMZF 5.08/5/135 | **1717770000** | **1734250000** | 50 |
| 6 | LMZF 5.08/6/135 | **1717780000** | **1734260000** | 50 |
| 7 | LMZF 5.08/7/135 | **1717110000** | **1734270000** | 50 |
| 8 | LMZF 5.08/8/135 | **1715200000** | **1734280000** | 50 |
| 9 | LMZF 5.08/9/135 | **1717120000** | **1734290000** | 25 |
| 10 | LMZF 5.08/10/135 | **1715210000** | **1734300000** | 25 |
| 11 | LMZF 5.08/11/135 | **1717130000** | **1734310000** | 25 |
| 12 | LMZF 5.08/12/135 | **1715220000** | **1734320000** | 25 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

## LMZF 5.08/180




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 14 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

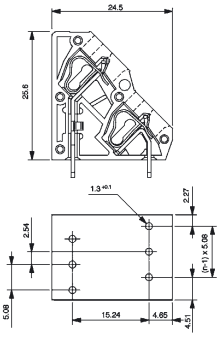
Additional technical data see page 54

| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LMZF 5.08/2/180 | **1701550000** | **1722400000** | 100 |
| 3 | LMZF 5.08/3/180 | **1701560000** | **1722410000** | 100 |
| 4 | LMZF 5.08/4/180 | **1722130000** | **1722420000** | 100 |
| 5 | LMZF 5.08/5/180 | **1701570000** | **1722430000** | 50 |
| 6 | LMZF 5.08/6/180 | **1722140000** | **1722440000** | 50 |
| 7 | LMZF 5.08/7/180 | **1722150000** | **1722450000** | 50 |
| 8 | LMZF 5.08/8/180 | **1722160000** | **1722460000** | 50 |
| 9 | LMZF 5.08/9/180 | **1722170000** | **1722470000** | 25 |
| 10 | LMZF 5.08/10/180 | **1722180000** | **1722480000** | 25 |
| 11 | LMZF 5.08/11/180 | **1722190000** | **1722490000** | 25 |
| 12 | LMZF 5.08/12/180 | **1722200000** | **1722500000** | 25 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

## Rated cross-section ≤ 1.5 mm²

### LM2NZF 5.08/135



| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 12 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 2.5 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 55

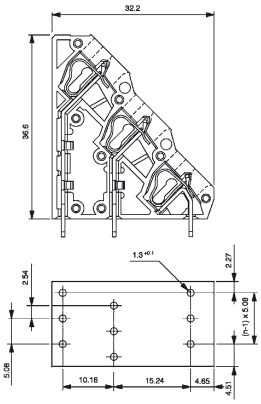
**Solder pin length** **3.5 mm**

**Colour**

| Poles | Type | Cat. No. | Qty. |
|---|---|---|---|
| 4 | LM2NZF 5.08/4 | **1764810000** | 50 |
| 6 | LM2NZF 5.08/6 | **1764820000** | 50 |
| 8 | LM2NZF 5.08/8 | **1764830000** | 50 |
| 10 | LM2NZF 5.08/10 | **1764840000** | 50 |
| 12 | LM2NZF 5.08/12 | **1764850000** | 50 |
| 14 | LM2NZF 5.08/14 | **1764860000** | 20 |
| 16 | LM2NZF 5.08/16 | **1764870000** | 20 |
| 18 | LM2NZF 5.08/18 | **1764880000** | 20 |
| 20 | LM2NZF 5.08/20 | **1758020000** | 20 |
| 22 | LM2NZF 5.08/22 | **1764890000** | 20 |
| 24 | LM2NZF 5.08/24 | **1764900000** | 10 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

### LM3RZF 5.08/135



| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 12 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 2.5 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 55

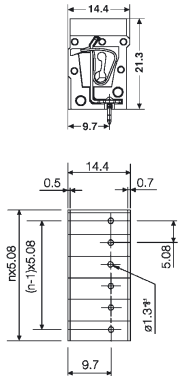
**Solder pin length** **3.5 mm**

**Colour**

| Poles | Type | Cat. No. | Qty. |
|---|---|---|---|
| 6 | LM3RZF 5.08/6 | **1764910000** | 50 |
| 9 | LM3RZF 5.08/9 | **1764920000** | 50 |
| 12 | LM3RZF 5.08/12 | **1764930000** | 50 |
| 15 | LM3RZF 5.08/15 | **1764940000** | 20 |
| 18 | LM3RZF 5.08/18 | **1764950000** | 20 |
| 21 | LM3RZF 5.08/21 | **1758040000** | 20 |
| 24 | LM3RZF 5.08/24 | **1764960000** | 10 |
| 27 | LM3RZF 5.08/27 | **1764970000** | 10 |
| 30 | LM3RZF 5.08/30 | **1758030000** | 10 |
| 33 | LM3RZF 5.08/33 | **1764980000** | 10 |
| 36 | LM3RZF 5.08/36 | **1764990000** | 10 |
| 48 | LM3RZF 5.08/48 | **1758050000** | 10 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

### LPZF 5.08/180



| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 16 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 2.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 55

**Solder pin length** **3.2 mm** **4.5 mm**

**Colour**

| Poles | Type | Cat. No. | Cat. No. | Qty. |
|---|---|---|---|---|
| 2 | LPZF 5.08/2/180 | **1698450000** | **1698560000** | 100 |
| 3 | LPZF 5.08/3/180 | **1698460000** | **1698570000** | 100 |
| 4 | LPZF 5.08/4/180 | **1698470000** | **1698580000** | 100 |
| 5 | LPZF 5.08/5/180 | **1698480000** | **1698590000** | 50 |
| 6 | LPZF 5.08/6/180 | **1698490000** | **1698600000** | 50 |
| 7 | LPZF 5.08/7/180 | **1698500000** | **1698610000** | 50 |
| 8 | LPZF 5.08/8/180 | **1698510000** | **1698620000** | 50 |
| 9 | LPZF 5.08/9/180 | **1698520000** | **1698630000** | 25 |
| 10 | LPZF 5.08/10/180 | **1698530000** | **1698640000** | 25 |
| 11 | LPZF 5.08/11/180 | **1698540000** | **1698650000** | 25 |
| 12 | LPZF 5.08/12/180 | **1698550000** | **1698660000** | 25 |

**Design compatible with LMT 5.08/180** on page 21

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

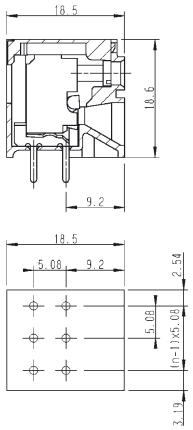
# Rated cross-section ≤ 1.5 mm²



## TOP 1.5GS 5.08/90

90°

block construc-tion




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 16 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 56

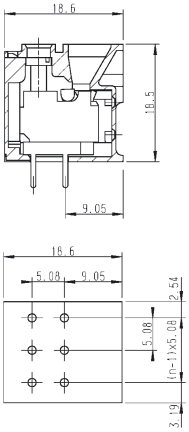
| Solder pin length | | 3.8 mm | 3.8 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | TOP1.5GS/2/90 | **1785590000** | **1785700000** | 100 |
| 3 | TOP1.5GS/3/90 | **1785600000** | **1785710000** | 100 |
| 4 | TOP1.5GS/4/90 | **1785610000** | **1785720000** | 100 |
| 5 | TOP1.5GS/5/90 | **1785620000** | **1785730000** | 50 |
| 6 | TOP1.5GS/6/90 | **1785630000** | **1785740000** | 50 |
| 7 | TOP1.5GS/7/90 | **1785640000** | **1785750000** | 50 |
| 8 | TOP1.5GS/8/90 | **1785650000** | **1785760000** | 50 |
| 9 | TOP1.5GS/9/90 | **1785660000** | **1785770000** | 50 |
| 10 | TOP1.5GS/10/90 | **1785670000** | **1785780000** | 50 |
| 11 | TOP1.5GS/11/90 | **1785680000** | **1785790000** | 50 |
| 12 | TOP1.5GS/12/90 | **1785690000** | **1785800000** | 50 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

## TOP 1.5GS 5.08/180

180°

block construc-tion




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 16 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

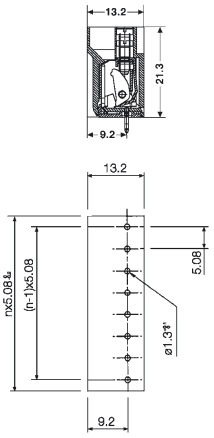
Additional technical data see page 56

| Solder pin length | | 4.8 mm | 4.8 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | TOP1.5GS/2/180 | **1785810000** | **1785920000** | 100 |
| 3 | TOP1.5GS/3/180 | **1785820000** | **1785930000** | 100 |
| 4 | TOP1.5GS/4/180 | **1785830000** | **1785940000** | 100 |
| 5 | TOP1.5GS/5/180 | **1785840000** | **1785950000** | 50 |
| 6 | TOP1.5GS/6/180 | **1785850000** | **1785960000** | 50 |
| 7 | TOP1.5GS/7/180 | **1785860000** | **1785970000** | 50 |
| 8 | TOP1.5GS/8/180 | **1785870000** | **1785980000** | 50 |
| 9 | TOP1.5GS/9/180 | **1785880000** | **1785990000** | 50 |
| 10 | TOP1.5GS/10/180 | **1785890000** | **1786000000** | 50 |
| 11 | TOP1.5GS/11/180 | **1785900000** | **1786010000** | 50 |
| 12 | TOP1.5GS/12/180 | **1785910000** | **1786020000** | 50 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

## LMT 5.08/180

180°




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 16 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 56

| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LMT 5.08/2/180 | **1692860000** | **1692750000** | 100 |
| 3 | LMT 5.08/3/180 | **1692870000** | **1692760000** | 100 |
| 4 | LMT 5.08/4/180 | **1692880000** | **1692770000** | 100 |
| 5 | LMT 5.08/5/180 | **1692890000** | **1692780000** | 50 |
| 6 | LMT 5.08/6/180 | **1692900000** | **1692790000** | 50 |
| 7 | LMT 5.08/7/180 | **1692910000** | **1692800000** | 50 |
| 8 | LMT 5.08/8/180 | **1692920000** | **1692810000** | 50 |
| 9 | LMT 5.08/9/180 | **1692930000** | **1692820000** | 25 |
| 10 | LMT 5.08/10/180 | **1692940000** | **1692830000** | 25 |
| 11 | LMT 5.08/11/180 | **1692950000** | **1692840000** | 25 |
| 12 | LMT 5.08/12/180 | **1692960000** | **1692850000** | 25 |

**Design compatible with LPZF 5.08/180** on page 20

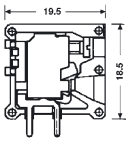
**Attention:** We recommend protecting the 2 and 3 pole blocks of the LMT 5.08/180 from twisting by using additional support.

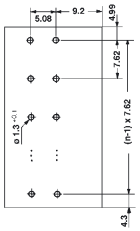
| Accessories | Page |
|---|---|
| Marking | - |
| Fixing | - |
| Miscellaneous | 45 |

# Rated cross-section ≤ 1.5 mm²

## TOP 1.5GS 7.62/90


modular construc-tion




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 500* | 300 | 300 |
| **Rated current** | A | 16 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 57

**Solder pin length** **3.5 mm**

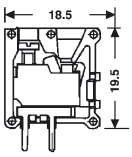
**Colour**

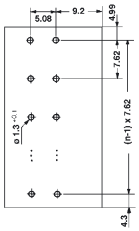
| Poles | Type | Cat. No. | Qty. |
|---|---|---|---|
| 2 | TOP1.5GS2/90 | **0393360000** | 100 |
| 3 | TOP1.5GS3/90 | **0393460000** | 100 |
| 4 | TOP1.5GS4/90 | **0393560000** | 50 |
| 5 | TOP1.5GS5/90 | **0393660000** | 25 |
| 6 | TOP1.5GS6/90 | **1683990000** | 20 |
| 7 | TOP1.5GS7/90 | **1647310000** | 20 |
| 8 | TOP1.5GS8/90 | **0642460000** | 20 |
| 10 | TOP1.5GS10/90 | **0642560000** | 20 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

## TOP 1.5GS 7.62/180


modular construc-tion




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 500* | 300 | 300 |
| **Rated current** | A | 16 | 10 | 10 |
| **Clamping range max.** | mm²/AWG | 1.5 | 14 | 14 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 57

**Solder pin length** **4.5 mm**

**Colour**

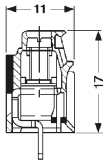
| Poles | Type | Cat. No. | Qty. |
|---|---|---|---|
| 2 | TOP1.5GS2/180 | **0391360000** | 100 |
| 3 | TOP1.5GS3/180 | **0391460000** | 50 |
| 4 | TOP1.5GS4/180 | **0391560000** | 50 |
| 5 | TOP1.5GS5/180 | **1490460000** | 25 |
| 6 | TOP1.5GS6/180 | **1597060000** | 20 |
| 7 | TOP1.5GS7/180 | **1597070000** | 20 |
| 8 | TOP1.5GS8/180 | **0570960000** | 20 |
| 10 | TOP1.5GS10/180 | **0571160000** | 20 |

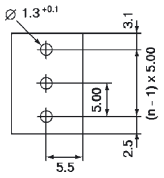
| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | 45 |

# Rated cross-section ≤ 2.5 mm²



## LP 5.00/90




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 25 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

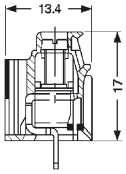
Additional technical data see page 58

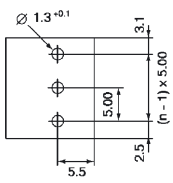
| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LP 5.00/2/90 | **1594320000** | **1696060000** | 100 |
| 3 | LP 5.00/3/90 | **1594330000** | **1696070000** | 100 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 46 |

## LPP 5.00/90

with test point




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 25 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

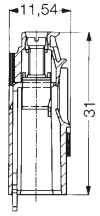
*Overvoltage category III / Pollution severity 3

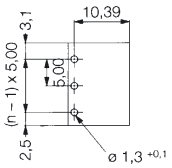
Additional technical data see page 58

| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LPP 5.00/2/90 | **1594340000** | **1697140000** | 100 |
| 3 | LPP 5.00/3/90 | **1594350000** | **1697150000** | 100 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 43 |

## LP1N 5.00/90




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 24 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 58

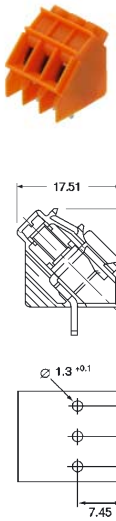
| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LP1N 5.00/2 | **1640870000** | **1698050000** | 100 |
| 3 | LP1N 5.00/3 | **1640880000** | **1698060000** | 100 |

**Attention: Customers are advised to ensure support for LP1N on the printed circuit board.**

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | - |
| Miscellaneous | 45 |

## Rated cross-section ≤ 2.5 mm²

### LP 5.00/135


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 25 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

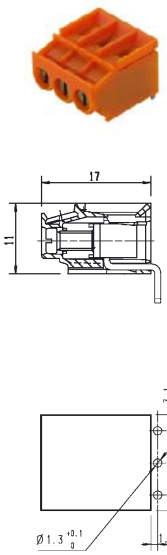
Additional technical data see page 58

| Solder pin length | 3.2 mm | 4.5 mm |
|---|---|---|
| Colour | | |

| Poles | Type | Cat. No. | Cat. No. | Qty. |
|---|---|---|---|---|
| 2 | LP 5.00/2/135 | **1595750000** | **1697180000** | 100 |
| 3 | LP 5.00/3/135 | **1595710000** | **1697190000** | 100 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | - |
| Miscellaneous | 46 |

### LP 5.00/180


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 25 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

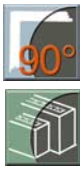
Additional technical data see page 58

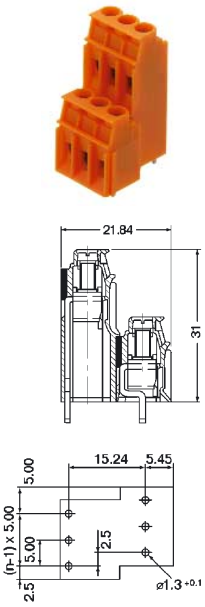
| Solder pin length | 3.2 mm | 4.5 mm |
|---|---|---|
| Colour | | |

| Poles | Type | Cat. No. | Cat. No. | Qty. |
|---|---|---|---|---|
| 2 | LP 5.00/2/180 | **1761330000** | **1761350000** | 100 |
| 3 | LP 5.00/3/180 | **1761340000** | **1761360000** | 100 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 45 |

### LP2N 5.00/90




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 24 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 58

| Solder pin length | 3.2 mm | 4.5 mm |
|---|---|---|
| Colour | | |

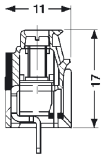
| Poles | Type | Cat. No. | Cat. No. | Qty. |
|---|---|---|---|---|
| 4 | LP2N 5.00/4 | **1635160000** | **1695920000** | 50 |
| 6 | LP2N 5.00/6 | **1625560000** | **1695930000** | 50 |
| 8 | LP2N 5.00/8 | **1596450000** | - | 50 |
| 10 | LP2N 5.00/10 | **1596490000** | - | 50 |
| 16 | LP2N 5.00/16 | **1596550000** | - | 20 |
| 20 | LP2N 5.00/20 | **1596590000** | - | 20 |
| 24 | LP2N 5.00/24 | **1596630000** | - | 10 |
| 30 | LP2N 5.00/30 | **1596670000** | - | 10 |

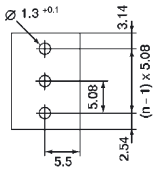
| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 45-46 |

# Rated cross-section ≤ 2.5 mm²



## LP 5.08/90




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 25 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 58

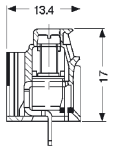
| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 1 | LP 5.08/1/90 | **1730300000** | - | 100 |
| 2 | LP 5.08/2/90 | **1592820000** | **1696040000** | 100 |
| 3 | LP 5.08/3/90 | **1592830000** | **1696050000** | 100 |
| 4 | LP 5.08/4/90 | **1594360000** | - | 50 |
| 6 | LP 5.08/6/90 | **1608250000** | - | 50 |
| 8 | LP 5.08/8/90 | **1594370000** | - | 50 |
| 10 | LP 5.08/10/90 | **1594380000** | - | 50 |
| 12 | LP 5.08/12/90 | **1608270000** | - | 50 |
| 16 | LP 5.08/16/90 | **1594390000** | - | 50 |
| 24 | LP 5.08/24/90 | **1608290000** | - | 20 |

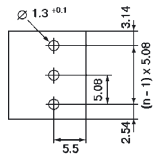
See also page 47 **"Application Examples LP System"**

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 43-46 |

## LPP 5.08/90

with test point




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 25 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

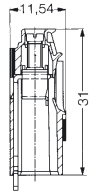
*Overvoltage category III / Pollution severity 3

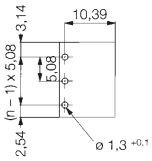
Additional technical data see page 58

| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LPP 5.08/2/90 | **1594400000** | **1697120000** | 100 |
| 3 | LPP 5.08/3/90 | **1594410000** | **1697130000** | 100 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 43-46 |

## LP1N 5.08/90




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 24 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 58

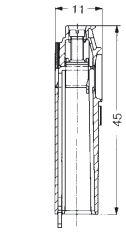
| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LP1N 5.08/2 | **1640830000** | **1698030000** | 100 |
| 3 | LP1N 5.08/3 | **1640840000** | **1698040000** | 100 |

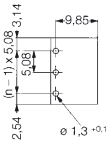
**Attention: Customers are advised to ensure support for LP1N on the printed circuit board.**

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | - |
| Miscellaneous | 43, 45, 46 |

## Rated cross-section ≤ 2.5 mm²

### LP1H 5.08/90




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 24 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 58

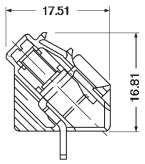
| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LP1H 5.08/2 | **1640910000** | **1698070000** | 100 |
| 3 | LP1H 5.08/3 | **1640920000** | **1698080000** | 50 |

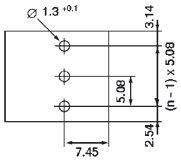
**Attention: Customers are advised to ensure support for LP1H on the printed circuit board.**

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | - |
| Miscellaneous | 43, 45 |

### LP 5.08/135

with test point




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 25 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

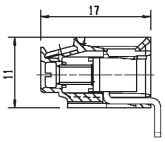
*Overvoltage category III / Pollution severity 3

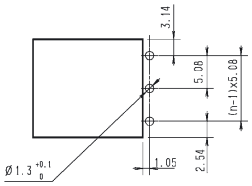
Additional technical data see page 58

| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LP 5.08/2/135 | **1595730000** | **1676740000** | 100 |
| 3 | LP 5.08/3/135 | **1595690000** | **1676750000** | 100 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | - |
| Miscellaneous | 45-46 |

### LP 5.08/180




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 25 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 58

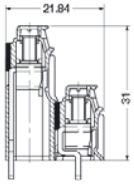
| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LP 5.08/2/180 | **1753810000** | **1753830000** | 100 |
| 3 | LP 5.08/3/180 | **1753820000** | **1753840000** | 100 |

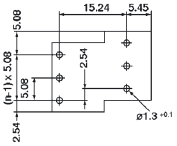
| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 45-46 |

# Rated cross-section ≤ 2.5 mm²



## LP2N 5.08/90




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 24 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

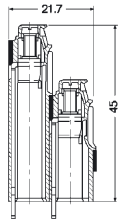
*Overvoltage category III / Pollution severity 3

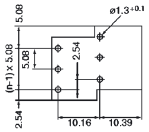
Additional technical data see page 58

| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 4 | LP2N 5.08/4 | **1635140000** | **1695900000** | 50 |
| 6 | LP2N 5.08/6 | **1625540000** | **1695910000** | 50 |
| 8 | LP2N 5.08/8 | **1596460000** | - | 50 |
| 10 | LP2N 5.08/10 | **1596510000** | - | 50 |
| 16 | LP2N 5.08/16 | **1596530000** | - | 20 |
| 20 | LP2N 5.08/20 | **1596570000** | - | 20 |
| 24 | LP2N 5.08/24 | **1596610000** | - | 10 |
| 30 | LP2N 5.08/30 | **1596650000** | - | 10 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 43, 45, 46 |

## LP2H 5.08/90




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 24 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

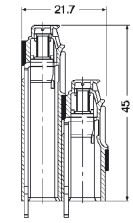
*Overvoltage category III / Pollution severity 3

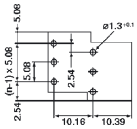
Additional technical data see page 58

| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 4 | LP2H 5.08/4 | **1753700000** | **1697320000** | 50 |
| 6 | LP2H 5.08/6 | **1625580000** | **1697330000** | 50 |
| 8 | LP2H 5.08/8 | **1596680000** | - | 50 |
| 10 | LP2H 5.08/10 | **1596700000** | - | 50 |
| 16 | LP2H 5.08/16 | **1596720000** | - | 20 |
| 20 | LP2H 5.08/20 | **1596740000** | - | 20 |
| 24 | LP2H 5.08/24 | **1596760000** | - | 10 |
| 30 | LP2H 5.08/30 | **1596780000** | - | 10 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | - |
| Miscellaneous | 43, 45 |

## LP2HR 5.08/90




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 24 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

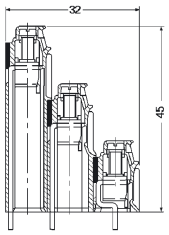
Additional technical data see page 58

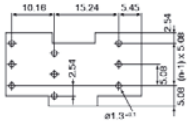
| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 4 | LP2HR 5.08/4 | **1636210000** | **1697340000** | 50 |
| 6 | LP2HR 5.08/6 | **1636220000** | **1697350000** | 50 |
| 8 | LP2HR 5.08/8 | **1636230000** | - | 50 |
| 10 | LP2HR 5.08/10 | **1636240000** | - | 50 |
| 16 | LP2HR 5.08/16 | **1636250000** | - | 20 |
| 20 | LP2HR 5.08/20 | **1636260000** | - | 20 |
| 24 | LP2HR 5.08/24 | **1636270000** | - | 10 |
| 30 | LP2HR 5.08/30 | **1636280000** | - | 10 |
| 48 | LP2HR 5.08/48 | **1646480000** | - | 10 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | - |
| Miscellaneous | 43, 45 |

# Rated cross-section ≤ 2.5 mm²

## LP3R 5.08/90




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 20 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 58

**Solder pin length** **3.2 mm** **4.5 mm**

**Colour**

| Poles | Type | Cat. No. | Cat. No. | Qty. |
|---|---|---|---|---|
| 6 | LP3R 5.08/6 | **1653930000** | **1695940000** | 50 |
| 9 | LP3R 5.08/9 | **1596320000** | **1695950000** | 50 |
| 12 | LP3R 5.08/12 | **1596340000** | - | 50 |
| 15 | LP3R 5.08/15 | **1596360000** | - | 25 |
| 18 | LP3R 5.08/18 | **1596380000** | - | 25 |
| 24 | LP3R 5.08/24 | **1596400000** | - | 20 |
| 30 | LP3R 5.08/30 | **1596420000** | - | 10 |

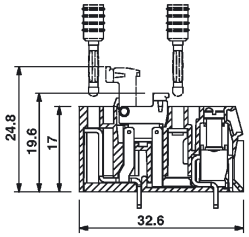
| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 43, 45 |

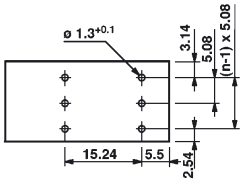
## LPTR 5.08/90

new

with 2 test points

**with disconnect knife**




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 250* | 300 | 300 |
| **Rated current** | A | 20 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 58

**Solder pin length** **3.2 mm** **4.5 mm**

**Colour**

| Poles | Type | Cat. No. | Cat. No. | Qty. |
|---|---|---|---|---|
| 1 | LPTR 5.08/1 | **1755180000** | **1755190000** | 100 |

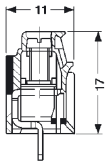
With adaptor plate LPZP 2.54/90 (Cat. No. **1747480000**) it is possible to create the pitch 7.62 mm.

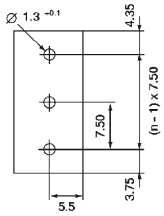
See also page 47 **"Application Examples LP System".**

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 45-46 |

# Rated cross-section ≤ 2.5 mm²

## LP 7.50/90


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 500* | 300 | 300 |
| **Rated current** | A | 26 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

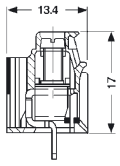
*Overvoltage category III / Pollution severity 3

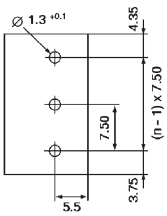
Additional technical data see page 59

| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LP 7.50/2/90 | **1594420000** | **1697220000** | 100 |
| 3 | LP 7.50/3/90 | **1594430000** | **1697230000** | 100 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 46 |

## LPP 7.50/90


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 500* | 300 | 300 |
| **Rated current** | A | 26 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

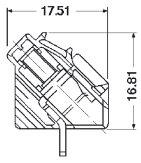
*Overvoltage category III / Pollution severity 3

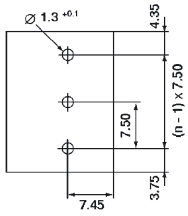
Additional technical data see page 59

| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LPP 7.50/2/90 | **1594440000** | **1697260000** | 100 |
| 3 | LPP 7.50/3/90 | **1594450000** | **1697270000** | 100 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 43, 46 |

## LP 7.50/135


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 500* | 300 | 300 |
| **Rated current** | A | 26 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

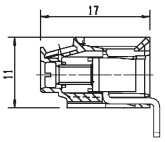
Additional technical data see page 59

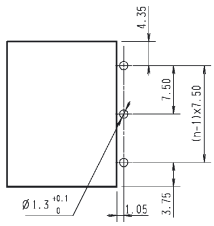
| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LP 7.50/2/135 | **1595770000** | **1697300000** | 100 |
| 3 | LP 7.50/3/135 | **1595810000** | **1697310000** | 100 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | - |
| Miscellaneous | 46 |

## Rated cross-section ≤ 2.5 mm²

### LP 7.50/180


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 500* | 300 | 300 |
| **Rated current** | A | 26 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 59

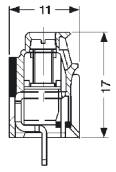
**Solder pin length** **3.2 mm**

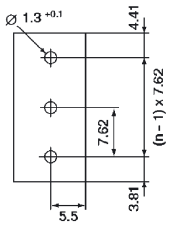
**Colour**

| Poles | Type | Cat. No. | Qty. |
|---|---|---|---|
| 2 | LP 7.50/2/180 | **1761370000** | 100 |
| 3 | LP 7.50/3/180 | **1761380000** | 100 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 46 |

### LP 7.62/90


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 500* | 300 | 300 |
| **Rated current** | A | 26 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 59

**Solder pin length** **3.2 mm** **4.5 mm**

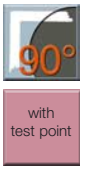
**Colour**

| Poles | Type | Cat. No. | Cat. No. | Qty. |
|---|---|---|---|---|
| 2 | LP 7.62/2/90 | **1594460000** | **1697200000** | 100 |
| 3 | LP 7.62/3/90 | **1594470000** | **1697210000** | 100 |

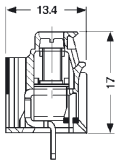
| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 46 |

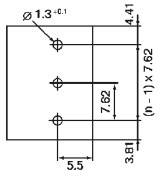
# Rated cross-section ≤ 2.5 mm²

## LPP 7.62/90




with test point




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 500* | 300 | 300 |
| **Rated current** | A | 26 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

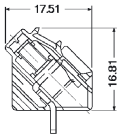
Additional technical data see page 59

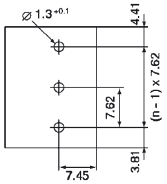
| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LPP 7.62/2/90 | **1594480000** | **1697240000** | 100 |
| 3 | LPP 7.62/3/90 | **1594490000** | **1697250000** | 100 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 43, 46 |

## LP 7.62/135


with test point




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 500* | 300 | 300 |
| **Rated current** | A | 26 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

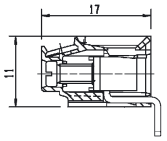
*Overvoltage category III / Pollution severity 3

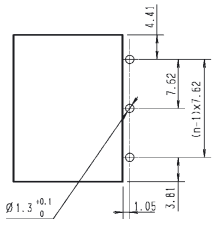
Additional technical data see page 59

| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LP 7.62/2/135 | **1595790000** | **1697280000** | 100 |
| 3 | LP 7.62/3/135 | **1595830000** | **1697290000** | 100 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | - |
| Miscellaneous | 46 |

## LP 7.62/180


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 500* | 300 | 300 |
| **Rated current** | A | 26 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

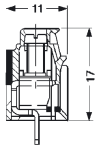
Additional technical data see page 59

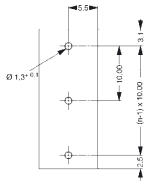
| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LP 7.62/2/180 | **1753890000** | **1753910000** | 100 |
| 3 | LP 7.62/3/180 | **1753900000** | **1753920000** | 100 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 46 |

## Rated cross-section ≤ 2.5 mm²

### LP 10.00/90


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 630* | 300 | 300 |
| **Rated current** | A | 26 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 60

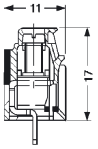
**Solder pin length** **3.2 mm**

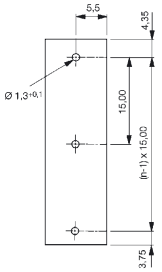
**Colour**

| Poles | Type | Cat. No. | Qty. |
|---|---|---|---|
| 2 | LP 10.00/2/90 | **1693650000** | 50 |
| 3 | LP 10.00/3/90 | **1693660000** | 50 |
| 4 | LP 10.00/4/90 | **1692700000** | 50 |

| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 45 |

### LP 15.00/90


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 1000 | 600 | 600 |
| **Rated current** | A | 27 | 15 | 15 |
| **Clamping range max.** | mm²/AWG | 4.0 | 12 | 12 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 60

**Solder pin length** **4.5 mm**

**Colour**

| Poles | Type | Cat. No. | Qty. |
|---|---|---|---|
| 2 | LP 15.00/2/90 | **1697550000** | 100 |
| 3 | LP 15.00/3/90 | **1697560000** | 50 |
| 4 | LP 15.00/4/90 | **1697570000** | 50 |

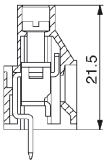
| Accessories | Page |
|---|---|
| Marking | 40 |
| Fixing | 46 |
| Miscellaneous | 45 |

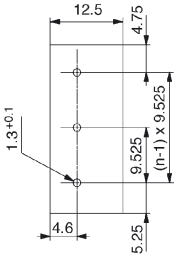
# Rated cross-section ≤ 4.0 mm²

## LL 9.5/90

new








| Technische Daten | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 630* | 300 | 300 |
| **Rated current** | A | 32 | 30 | 30 |
| **Clamping range max.** | mm²/AWG | 4.0 | 10 | 10 |

*Overvoltage category III / Pollution severity 3

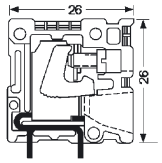
Additional technical data see page 62

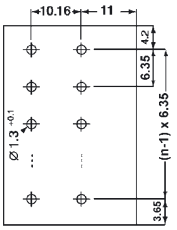
| Solder pin length | | 5.0 mm | 5.0 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | LL 9.5/2/90 | **1724680000** | **1724700000** | 50 |
| 3 | LL 9.5/3/90 | **1724690000** | **1724710000** | 50 |

| Accessories | Page |
|---|---|
| Marking | 42 |
| Fixing | - |
| Miscellaneous | - |

## TOP4GS 6.35/90








| Technische Daten | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 320* | 300 | 300 |
| **Rated current** | A | 36 | 30 | 30 |
| **Clamping range max.** | mm²/AWG | 6.0 | 10 | 10 |

*Overvoltage category III / Pollution severity 3

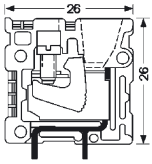
Additional technical data see page 63

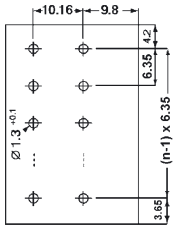
| Solder pin length | | 3.5 mm | 3.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | TOP4GS2/90 | **1401760000** | **1786110000** | 100 |
| 3 | TOP4GS3/90 | **1650300000** | **0265910000** | 100 |
| 4 | TOP4GS4/90 | **1786030000** | **1536210000** | 50 |
| 5 | TOP4GS5/90 | **1786040000** | **0308410000** | 50 |
| 6 | TOP4GS6/90 | **1786050000** | **1786120000** | 50 |
| 7 | TOP4GS7/90 | **1786060000** | **1786130000** | 50 |
| 8 | TOP4GS8/90 | **1667910000** | **1786140000** | 50 |
| 9 | TOP4GS9/90 | **1786070000** | **1786150000** | 50 |
| 10 | TOP4GS10/90 | **1786080000** | **1786160000** | 50 |
| 11 | TOP4GS11/90 | **1786090000** | **1786170000** | 50 |
| 12 | TOP4GS12/90 | **1786100000** | **1786180000** | 50 |

| Accessories | Page |
|---|---|
| Marking | 41 |
| Fixing | - |
| Miscellaneous | 45 |

## TOP4GS 6.35/180








| Technische Daten | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 320* | 300 | 300 |
| **Rated current** | A | 36 | 30 | 30 |
| **Clamping range max.** | mm²/AWG | 6.0 | 10 | 10 |

*Overvoltage category III / Pollution severity 3

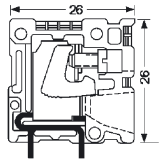
Additional technical data see page 63

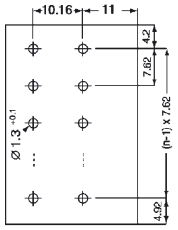
| Solder pin length | | 3.5 mm | 3.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | TOP4GS2/180 | **1786190000** | **1786300000** | 100 |
| 3 | TOP4GS3/180 | **1786200000** | **1786310000** | 100 |
| 4 | TOP4GS4/180 | **1786210000** | **1786320000** | 50 |
| 5 | TOP4GS5/180 | **1786220000** | **1786330000** | 50 |
| 6 | TOP4GS6/180 | **1786230000** | **1786340000** | 50 |
| 7 | TOP4GS7/180 | **1786240000** | **1786350000** | 50 |
| 8 | TOP4GS8/180 | **1786250000** | **1786360000** | 50 |
| 9 | TOP4GS9/180 | **1786260000** | **1786370000** | 50 |
| 10 | TOP4GS10/180 | **1786270000** | **1786380000** | 50 |
| 11 | TOP4GS11/180 | **1786280000** | **1786390000** | 50 |
| 12 | TOP4GS12/180 | **1786290000** | **1786400000** | 50 |

| Accessories | Page |
|---|---|
| Marking | 41 |
| Fixing | - |
| Miscellaneous | 45 |

# Rated cross-section ≤ 4.0 mm²


## TOP4GS 7.62/90


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 500* | 300 | 300 |
| **Rated current** | A | 36 | 30 | 30 |
| **Clamping range max.** | mm²/AWG | 6.0 | 10 | 10 |

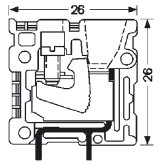
*Overvoltage category III / Pollution severity 3

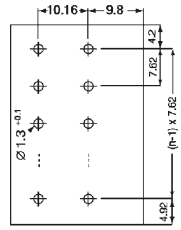
Additional technical data see page 63

| Solder pin length | | 3.5 mm | 3.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | TOP4GS2/90 | **0289660000** | **1751780000** | 100 |
| 3 | TOP4GS3/90 | **0289760000** | **1786460000** | 100 |
| 4 | TOP4GS4/90 | **0290160000** | **1750680000** | 50 |
| 5 | TOP4GS5/90 | **1698740000** | **1786470000** | 50 |
| 6 | TOP4GS6/90 | **1786410000** | **1751790000** | 50 |
| 7 | TOP4GS7/90 | **1647300000** | **1786480000** | 50 |
| 8 | TOP4GS8/90 | **1786420000** | **1786490000** | 50 |
| 9 | TOP4GS9/90 | **1786430000** | **1786500000** | 50 |
| 10 | TOP4GS10/90 | **1786440000** | **1786510000** | 50 |
| 11 | TOP4GS11/90 | **1759860000** | **1786520000** | 50 |
| 12 | TOP4GS12/90 | **1786450000** | **1786530000** | 50 |

| Accessories | Page |
|---|---|
| Marking | 41 |
| Fixing | - |
| Miscellaneous | 45 |

## TOP4GS 7.62/180


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 500* | 300 | 300 |
| **Rated current** | A | 36 | 30 | 30 |
| **Clamping range max.** | mm²/AWG | 6.0 | 10 | 10 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 63

| Solder pin length | | 3.5 mm | 3.5 mm | |
|---|---|---|---|---|
| Colour | | | | |
| Poles | Type | Cat. No. | Cat. No. | Qty. |
| 2 | TOP4GS2/180 | **0298360000** | **1786590000** | 100 |
| 3 | TOP4GS3/180 | **0298460000** | **1786600000** | 100 |
| 4 | TOP4GS4/180 | **0298560000** | **1786610000** | 50 |
| 5 | TOP4GS5/180 | **1786540000** | **1786620000** | 50 |
| 6 | TOP4GS6/180 | **1494560000** | **1786630000** | 50 |
| 7 | TOP4GS7/180 | **1786550000** | **1786640000** | 50 |
| 8 | TOP4GS8/180 | **1786560000** | **1786650000** | 50 |
| 9 | TOP4GS9/180 | **1571700000** | **1786660000** | 50 |
| 10 | TOP4GS10/180 | **1786570000** | **1786670000** | 50 |
| 11 | TOP4GS11/180 | **1786580000** | **1786680000** | 50 |
| 12 | TOP4GS12/180 | **1749170000** | **1786690000** | 50 |

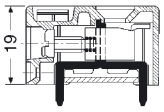
| Accessories | Page |
|---|---|
| Marking | 41 |
| Fixing | - |
| Miscellaneous | 45 |

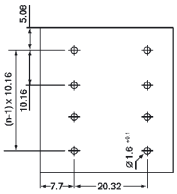
## Rated cross-section ≤ 10.0 mm²

### GSE 10/180

180°

with test point




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 400* | 300 | 300 |
| **Rated current** | A | 59 | 40 | 40 |
| **Clamping range max.** | mm²/AWG | 10.0 | 8 | 8 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 64

**Solder pin length** 4.5 mm

**Colour**

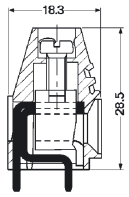
| Poles | Type | Cat. No. | Qty. |
|---|---|---|---|
| 1 | GSE 10/1 | **0478700000** | 50 |
| 3 | GSE 10/3 | **0478900000** | 20 |
| 4 | GSE 10/4 | **1610220000** | 20 |

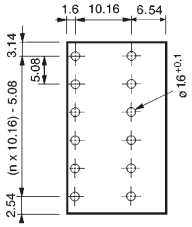
| Accessories | Page |
|---|---|
| Marking | 40, 42 |
| Fixing | - |
| Miscellaneous | 45 |

### LU 10.16/90

90°

4 solder pins per pole




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 630* | 300 | 300 |
| **Rated current** | A | 57 | 65 | 65 |
| **Clamping range max.** | mm²/AWG | 16.0 | 6 | 6 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 64

**Solder pin length** 3.2 mm 4.5 mm

**Colour**

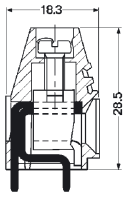
| Poles | Type | Cat. No. | Cat. No. | Qty. |
|---|---|---|---|---|
| 2 | LU 10.16/2/90 | **1635920000** | **1636170000** | 20 |
| 3 | LU 10.16/3/90 | **1635930000** | **1636180000** | 20 |

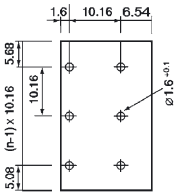
| Accessories | Page |
|---|---|
| Marking | 40, 42 |
| Fixing | - |
| Miscellaneous | 45 |

### LU 10.16/90

90°

2 solder pins per pole




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 630* | 300 | 300 |
| **Rated current** | A | 57 | 65 | 65 |
| **Clamping range max.** | mm²/AWG | 16.0 | 6 | 6 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 64

**Solder pin length** 4.5 mm

**Colour**

| Poles | Type | Cat. No. | Qty. |
|---|---|---|---|
| 2 | LU 10.16/2/90 2STI | **1648310000** | 20 |
| 3 | LU 10.16/3/90 2STI | **1648300000** | 20 |

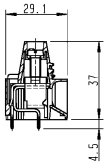
| Accessories | Page |
|---|---|
| Marking | 40, 42 |
| Fixing | - |
| Miscellaneous | 45 |

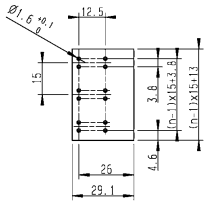
## Rated cross-section ≤ 25.0 mm²


### LX 15.00/90

new

with test point




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 800* | 600 | 600 |
| **Rated current** | A | 101 | 85 | 85 |
| **Clamping range max.** | mm²/AWG | 25.0 | 4 | 4 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 65

**Solder pin length** **4.5 mm**
**4 Solder pins per pole**
**Colour**

| Poles | Type | Cat. No. | Qty. |
|---|---|---|---|
| 1 | LX 15.00/1/90 | **1783660000** | 20 |
| 2 | LX 15.00/2/90 | **1783670000** | 20 |
| 3 | LX 15.00/3/90 | **1783680000** | 20 |
| 4 | LX 15.00/4/90 | **1783690000** | 20 |
| 5 | LX 15.00/5/90 | **1806460000** | 20 |
| 6 | LX 15.00/6/90 | **on request** | 10 |
| 7 | LX 15.00/7/90 | **1809870000** | 10 |
| 8 | LX 15.00/8/90 | **1809880000** | 10 |

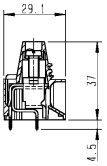
| Accessories | Page |
|---|---|
| Marking | 40, 42 |
| Fixing | - |
| Miscellaneous | 44, 45 |

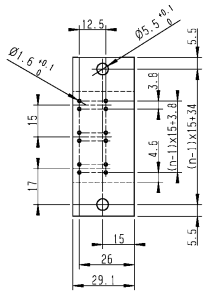
### LXB 15.00/90

new

with test point

flange version




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 800* | 600 | 600 |
| **Rated current** | A | 101 | 85 | 85 |
| **Clamping range max.** | mm²/AWG | 25.0 | 4 | 4 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 65

**Solder pin length** **4.5 mm**
**4 Solder pins per pole**
**Colour**

| Poles | Type | Cat. No. | Qty. |
|---|---|---|---|
| – | – | – | – |
| 2 | LXB 15.00/2/90 | **1783710000** | 20 |
| 3 | LXB 15.00/3/90 | **1783720000** | 20 |
| 4 | LXB 15.00/4/90 | **1783730000** | 20 |
| 5 | LXB 15.00/5/90 | **1806470000** | 20 |
| 6 | LXB 15.00/6/90 | **1783740000** | 10 |
| 7 | LXB 15.00/7/90 | **on request** | 10 |
| 8 | LXB 15.00/8/90 | **1783750000** | 10 |

For the fixing flanges M5 bolt is recommended. The bolt is not included in the scope of delivery.

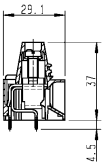
| Accessories | Page |
|---|---|
| Marking | 40, 42 |
| Fixing | - |
| Miscellaneous | 44, 45 |

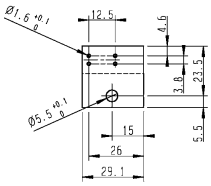
### LXBL 15.00/90

new

with test point

flange version




| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V | 800* | 600 | 600 |
| **Rated current** | A | 101 | 85 | 85 |
| **Clamping range max.** | mm²/AWG | 25.0 | 4 | 4 |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 65

**Solder pin length** **4.5 mm**
**4 Solder pins per pole**
**Colour**

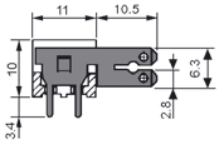
| Poles | Type | Cat. No. | Qty. |
|---|---|---|---|
| 1 | LXBL 15.00/1/90 | **1783700000** | 20 |

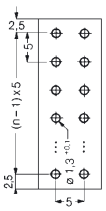
For the fixing flanges M5 bolt is recommended. The bolt is not included in the scope of delivery.

| Accessories | Page |
|---|---|
| Marking | 40, 42 |
| Fixing | - |
| Miscellaneous | 44, 45 |

# Push-on Tab Connection

## GSF 5/90


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V* | 200 | 300 | 300 |
| **Rated current** | A | 14 | 8 | 10 |
| **Clamping range max.** | $mm^2$/AWG | 2.5 | - | - |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 61

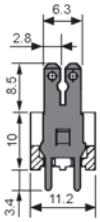
**Solder pin length** **3.4 mm**

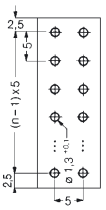
**Colour**

| Poles | Type | Cat. No. | Qty. |
|---|---|---|---|
| 2 | GSF5/2/90 | **0496760000** | 100 |
| 3 | GSF5/3/90 | **0496860000** | 100 |
| 4 | GSF5/4/90 | **0496960000** | 100 |
| 5 | GSF5/5/90 | **0497060000** | 50 |
| 6 | GSF5/6/90 | **0497160000** | 50 |
| 7 | GSF5/7/90 | **0497260000** | 50 |
| 8 | GSF5/8/90 | **0497360000** | 50 |
| 9 | GSF5/9/90 | **0497460000** | 50 |
| 10 | GSF5/10/90 | **0409460000** | 100 |

| Accessories | Page |
|---|---|
| Marking | - |
| Fixing | - |
| Miscellaneous | - |

## GSF 5/180


| Technical Data | | VDE | UL | CSA |
|---|---|---|---|---|
| **Rated voltage** | V* | 200 | 300 | 300 |
| **Rated current** | A | 14 | 8 | 10 |
| **Clamping range max.** | $mm^2$/AWG | 2.5 | - | - |

*Overvoltage category III / Pollution severity 3

Additional technical data see page 61

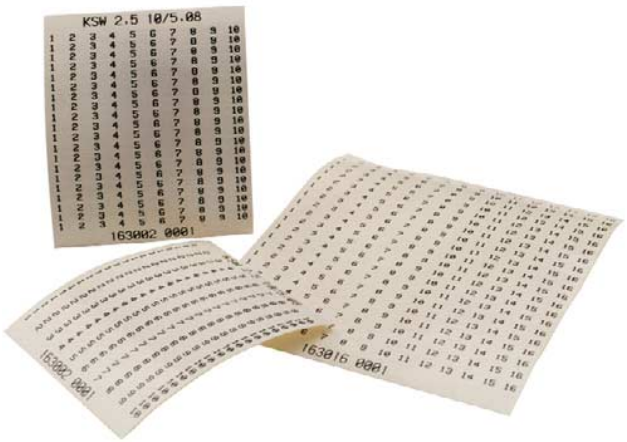
**Solder pin length** **3.4 mm**

**Colour**

| Poles | Type | Cat. No. | Qty. |
|---|---|---|---|
| 2 | GSF5/2/180 | **0490860000** | 100 |
| 3 | GSF5/3/180 | **0490960000** | 100 |
| 4 | GSF5/4/180 | **0491060000** | 100 |
| 5 | GSF5/5/180 | **0491160000** | 50 |
| 6 | GSF5/6/180 | **0491260000** | 50 |
| 7 | GSF5/7/180 | **0491360000** | 50 |
| 8 | GSF5/8/180 | **0491460000** | 50 |
| 9 | GSF5/9/180 | **0491560000** | 50 |
| 10 | GSF5/10/180 | **0409360000** | 100 |

| Accessories | Page |
|---|---|
| Marking | - |
| Fixing | - |
| Miscellaneous | - |

# Accessories




The Weidmueller portfolio of printed circuit board terminals is complemented by a wide range of accessories to cover virtually every installation requirement.

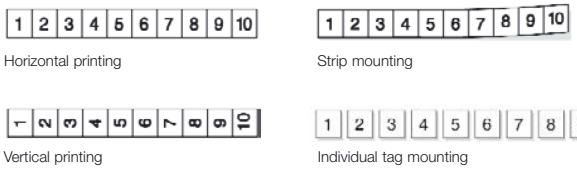
These accessories comprise mountings for LED's to monitor the switching state, numerous marking systems, fuse inserts, cross-connections and disconnectors. Fixing blocks and screwdrivers as well as cable preparation tools and ferrules.

For more information also ask for our sectional catalogue **"Installation Products"** (cat. no. 5629040000) and **"Tools"** (cat. no. 5629030000), or consult your nearest Weidmueller Sales Engineer or Representative. They will be only too pleased to assist.


## Accessories Selection Matrix

| | | Marking systems | LED holders and marker carrier | Fuse and disconnect elements | Fixing blocks | Cross-connections | Adaptor plates | Fixing plates |
|---|---|---|---|---|---|---|---|---|
| **Rated cross-section** | **PCB Terminal Accessories** | **Page 40-42** | **Page 43** | **Page 44** | **Page 45-46** | **Page 45** | **Page 46** | **Page 46** |
| 1.5 mm² | PM 5.08 | KSW 4, KSW 2.5 | | | | | | |
| | MK 8 | KSW 2.5 | | | | | | |
| | MK 7.5 | KSW 2.5 | | | | LPA QB | | |
| | LM 3.5 all versions | KSW 4, KSW 2.5 | | | | | | |
| | LM 5.00 all versions | KSW 4, KSW 2.5 | | | | | | |
| | LM 5.08 all versions | KSW 4, KSW 2.5 | | | | | | |
| | TOP1.5GS all versions | KSW 2.5 | | | TOP1.5GS BB | | | |
| | LMZF 5.08 all versions | KSW 2.5 | | | | | | |
| 2.5 mm² | LP 5.08/90 | DEK 5 | LPA FA, LPA FA BZ , LPA BZ | LPA SI, LPA TR | LP BB | LPA QB | LPZP/90 | LPHP |
| | LP 5.00/90 | DEK 5 | | | LP BB | | LPZP/90 | |
| | LP 7.50/90 | DEK 5 | | | LP BB | | LPZP/90 | |
| | LP 7.62/90 | DEK 5 | | | LP BB | | LPZP/90 | LPHP |
| | LP 10.00/90 | DEK 5 | | | LP BB | | LPZP/90 | |
| | LP 15.00/90 | DEK 5 | | | LP BB | | LPZP/90 | |
| | LP2N 5.08 | DEK 5 | LPA BZ | | LP BB | LPA QB | LPZP1N LPZP2.54/90 | |
| | LP2N Pitch 5.00, 7.50, 7.62 | DEK 5 | | | LP BB | | LPZP1N LPZP2.54/90 | |
| | LP2H 5.08 | DEK 5 | LPA BZ | | | LPA QB | | |
| | LP2HR 5.08 | DEK 5 | LPA BZ | | | LPA QB | | |
| | LP3R 5.08 | DEK 5 | LPA BZ | | LP BB | LPA QB | | |
| | LPP 5.08/90 | DEK 5 | LPA FA, LPABZ LPA FA BZ | LPA SI, LPA TR | LP BB | LPA QB | LPZP/90 | |
| | LPP/90 Pitch 5.00, 7.50, 7.62 | DEK 5 | LPA BZ | | LP BB | | LPZP/90 | |
| | LP1N 5.08 | DEK 5 | LPA BZ | | | LPA QB | LPZP1N | |
| | LP1N 5.00 | DEK 5 | | | | | | |
| | LP1H 5.08 | DEK 5 | LPA BZ | | | LPA QB | | |
| | LP/135 all pitches | DEK 5 | | | | LPA QB[1)] | LPZP/135 | |
| | LP/180 all pitches | DEK 5 | | | LP BB | LPA QB[1)] | LPZP/90 | |
| | LPZF 5.08/180 | KSW 2.5 | | | | | | |
| | LPTR 5.08/1/90 | DEK 5 | | | LP BB | | LPZP/90 | |
| 4.0 mm² | LL 9.5 | KSW4, KSW 2.5 | | | | | | |
| | TOP4GS/90 all pitches | S10 | | | | | | |
| | TOP4GS/180 all pitches | S10 | | | | | | |
| 10.0 mm² | LU/90 all pitches | KSW4, KSW2.5, DEK 5 | | | | | | |
| | GSE 10 | KSW4, KSW2.5, DEK 5 | | | | | | |
| 25.0 mm² | LX 15.00 | KSW4, KSW2.5, DEK 5 | | | | | | |
| Accessories | LPA SI | LPA FA BZ, LPA BZ DEK 5 | WS 10/5 a. WS 12/5 | | | | | |
| | LPA TR | DEK 5, WS 3 | | | | | | |

1) only pitch 5.08 mm


The Dekafix marking system can be used with the **LX 15.00**, **LU 10.16 and GSE 10** as well as with the **System LP** (with the exception of LPZF and its accessories).

Dekafix is supplied in packs of 10 cards with 50 tags per card. The standard colour is white with black text.

## Technical data

| | | |
|---|---|---|
| Material | Polyamide | |
| | Temperature range | -40°C …+100°C |
| | Flammability class | UL 94 V-2 |
| | Components | silicone-free |
| | | halogens below limit of detection |
| Assembly | Strip or individual tag assembly depending on stackability of the terminals | |
| Print | Standard or custom, print colour black | |
| Smudge resistance | Smudge resistant to DIN IEC 50 | |
| Custom print | From customer's list or data exchange via disk or modem | |
| Colour | Available in colours of the international resistance code | |
| max. digits DEK 5 | 3 horizontal, 3 vertical up to 2.5 mm type size | |

**Custom print (cat. no. with colour code for ordering !)**

| Colour | Cat. No. | Colour | Cat. No. | Colour | Cat. No. | Qty. **500** |
|---|---|---|---|---|---|---|
| ● black | **1609810000** | ● yellow | **0490791687** | ● violet | **0490791689** | |
| ● brown | **1609810000** | ● green | **0490791688** | ● grey | **1609810000** | |
| ● red | **0490791686** | ● blue | **1609810000** | ❍ white | **0490790000** | |
| ● orange | **1609810000** | | | | | |

**Neutral**

| Colour | Cat. No. | Colour | Cat. No. | Colour | Cat. No. | Qty. **500** |
|---|---|---|---|---|---|---|
| ● black | **0473391694** | ● yellow | **1609801687** | ● violet | **0473391689** | |
| ● brown | **0473391692** | ● green | **0473391688** | ● grey | **0473391691** | |
| ● red | **1609801686** | ● blue | **0473391693** | ❍ white | **0473360000** | |
| ● orange | **0473391690** | | | | | |

## Ordering data

| (only horizontal) | Print | Cat. No. |
|---|---|---|
| Printing individual letters A A A A A A A A | A | **0522761021** |
| | B | **0522761022** |
| | C | **0522761023** |
| | D | **0522761024** |
| | E | **0522761025** |
| | F | **0522761026** |
| | G | **0522761027** |
| | H | **0522761028** |
| | I | **0522761029** |
| | J | **0522761030** |
| | K | **0522761031** |
| | L | **0522761032** |
| | M | **0522761033** |
| | N | **0522761034** |
| | O | **0522761035** |
| | P | **0522761036** |
| | Q | **0522761037** |
| | R | **0522761038** |
| | S | **0522761039** |
| | T | **0522761040** |
| | U | **0522761041** |
| | V | **0522761042** |
| | W | **0522761043** |
| | X | **0522761044** |
| | Y | **0522761045** |
| | Z | **0522761046** |

| | Print | Cat. No. horizontal | Cat. No. vertical |
|---|---|---|---|
| Printing 50 digits in series 1 2 3 4 5 6 7 8 9 10 / 11 12 13 14 15 16 17 18 19 20 | 1 … 50 | **0473460001** | **0473560001** |
| | 51 … 100 | **0473460051** | **0473560051** |
| | to | The last 3 digits of the Cat No. are the first printed number | |
| | 951 … 999 | **0473460951** | **0473560951** |
| Printing 10 digits in series 1 2 3 4 5 6 7 8 9 10 / 11 12 13 14 15 16 17 18 19 20 | 1 … 10 | **0523060001** | **0460660001** |
| | 11 … 20 | **0523060011** | **0460660011** |
| | bis | Die letzten 3 Zahlen der Best.-Nr zeigen die erste Druckzahl | |
| | 91 … 100 | **0523060091** | **0460660091** |
| Beschriftung einzelne Zahlen 1 1 1 1 1 1 1 1 1 1 | 1 | **0522660001** | - |
| | 2 | **0522660002** | - |
| | to | The last 3 digits of the Cat No. are the first printed number | |
| | 200 | **0522660200** | - |
| Printing various symbols L1 L2 L3 N PE L1 L2 L3 N PE | L1, L2, L3, N, PE | **0354361187** | - |
| Printing individual symbols + + + + + + + + + + / L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 | Plus symbol + | **0576261198** | - |
| | Minus symbol - | **0576261199** | - |
| | PE | - | **0157261187** |
| | L1 | **0522361075** | - |
| | L2 | **0522361076** | - |
| | L3 | **0522361077** | - |
| | Earth symbol (ground) | **0576261202** | **0157261202** |
| | Earth symbol in circle | **0576261203** | **0157261203** |
| | Alternating current ~ | **0576261215** | - |
| Blank, white (Card) | - | **1609801044** | **1609801044** |
| Custom print (please state print and direction with order) | | **0490760000** | **0490760000** |
| Coloured Dekafix blank (please state colour with order) | | **0473390000** | **0473390000** |
| Coloured Dekafix printed = custom print (please state colour and print with order) | | **0490790000** | **0490790000** |

## System WS 3

The white WS 3 marker tags are used to mark **LPA TR** disconnect elements.

Each pack of WS 3 marker tags contains 20 stars with 10 tags each.

### Ordering data

| | Print | Cat. No. |
|---|---|---|
| individual letters | A | **1055761021** |
| | B | **1055761022** |
| | C | **1055761023** |
| | D | **1055761024** |
| | E | **1055761025** |
| | F | **1055761026** |
| | G | **1055761027** |
| | H | **1055761028** |
| | I | **1055761029** |
| | J | **1055761030** |
| | K | **1055761031** |
| | L | **1055761032** |
| | M | **1055761033** |
| | N | **1055761034** |
| | O | **1055761035** |
| | P | **1055761036** |
| | Q | **1055761037** |
| | R | **1055761038** |
| | S | **1055761039** |
| | T | **1055761040** |
| | U | **1055761041** |
| | V | **1055761042** |
| | W | **1055761043** |
| | X | **1055761044** |
| | Y | **1055761045** |
| | Z | **1055761046** |
| Neutral | | **1055560000** |
| Custom print | | on request |
| consecutive numbers | 0 … 9 | **1055860000** |
| individual numbers | 1 | **1055760001** |
| | 2 | **1055760002** |
| | 3 | **1055760003** |
| | 4 | **1055760004** |
| | 5 | **1055760005** |
| | 6 | **1055760006** |
| | 7 | **1055760007** |
| | 8 | **1055760008** |
| | 9 | **1055760009** |
| | 0 | **1055761000** |

## WS 10/5 and WS 12/5 cards

WS cards neutral

The white WS 10/5 and WS 12/5 cards can be used everywhere where DEK 5 is used - but giving increased marking requirements.

They are also used to mark our LPA FA BZ LED holders and our LPA BZ marker carriers.

### Ordering data

| Print | Type | Cat. No. |
|---|---|---|
| Neutral | WS 10/5 | **1635000000** |
| Neutral | WS 12/5 | **1609860000** |
| Custom print | | on request |

## System S 10


The S10 marking system can be used with **TOP4GS.**

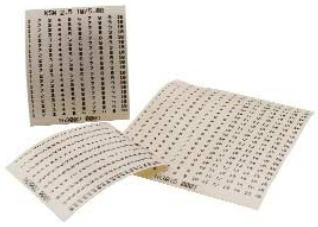
S 10 is supplied in packs of 100 strips with 10 tags per strip.

The print is always horizontal.

### Ordering data

| | Print | Cat. No. |
|---|---|---|
| Printing 10 digits each in series (SF 10) | 0 … 9 | **0332400000** |
| | 1 … 10 | **0331500001** |
| | 11 … 20 | **0331500011** |
| Printing individual digits (SG 10) | 1 | **0332500001** |
| | 2 | **0332500002** |
| | 3 | **0332500003** |
| | 4 | **0332500004** |
| | 5 | **0332500005** |
| | 6 | **0332500006** |
| | 7 | **0332500007** |
| | 8 | **0332500008** |
| | 9 | **0332500009** |
| | 0 | **0332501000** |
| Neutral (SO 10) | | **0332300000** |
| Custom print | | on request |

## Marking Strips KSW



The white self-adhesive KSW marking strips are available in 2 widths:

### KSW 4

| Width (mm) | Pitch | also suitable for |
|---|---|---|
| 4.0 | 3.50 mm | – |
| | 5.08 mm | 5.00 mm |
| | 7.50 mm | 7.62 mm |
| | 10.16 mm | |

KSW 4 can be used with the systems **PM 5.08**, **LM 3.5**, **LM 5.00/5.08**, **LU 10.16, LL 9.5 and LX 15.00**.

### KSW 2.5

| Width (mm) | Pitch | also suitable for |
|---|---|---|
| 2.5 | 3.50 mm | – |
| | 5.08 mm | 5.00 mm |
| | 7.50 mm | – |

KSW 2.5 can be used with **MK 8**, **MK 7.5**, **LPZF 5.08**, **System LMZF 5.08**, **TOP 1.5 GS, LX 15.00,** and of course everywhere where KSW 4 can be used.

Example for TOP 1.5 GS with KSW 2.5


### Ordering data

| Pitch mm | Type | Print | Strips per sheet | Cat. No. |
|---|---|---|---|---|
| 5.00 | KSW 2.5 16/5.00 | 1…16 | 20 | **1630070001** |
| 5.00 | KSW 2.5 20/5.00 | 1…20 | 20 | **1630080001** |
| 5.00 | KSW 2.5 20/5.00 | 21…40 | 20 | **1630080021** |
| 5.00 | KSW 2.5 20/5.00 | 41…60 | 20 | **1630080041** |
| 5.00 | KSW 2.5 20/5.00 | 61…80 | 20 | **1630080061** |
| 5.00 | KSW 4 12/5.00 | 1…12 | 20 | **1630130001** |
| 5.00 | KSW 4 12/5.00 | 13…24 | 20 | **1630130013** |
| 5.00 | KSW 4 18/5.00 | 1…18 | 20 | **1630170001** |
| 5.08 | KSW 2.5 10/5.08 | 1…10 | 20 | **1630020001** |
| 5.08 | KSW 2.5 10/5.08 | 11…20 | 20 | **1630020011** |
| 5.08 | KSW 2.5 15/5.08 | 1…150 | 20 | **1630050001** |
| 5.08 | KSW 2.5 15/5.08 | 1…15 | 20 | **1630060001** |
| 5.08 | KSW 2.5 15/5.08 | 151…300 | 20 | **1630050151** |
| 5.08 | KSW 2.5 15/5.08 | 301…450 | 20 | **1630050301** |
| 5.08 | KSW 2.5 8/5.08 | 1…8 | 20 | **1630100001** |
| 5.08 | KSW 2.5 8/5.08 | 9…16 | 20 | **1630100009** |
| 5.08 | KSW 2.5 8/5.08 | A…H | 20 | **1630101021** |
| 5.08 | KSW 4 16/5.08 | 1…16 | 20 | **1630160001** |
| 5.08 | KSW 4 16/5.08 | 17…32 | 20 | **1630160017** |
| 5.08 | KSW 4 16/5.08 | 33…48 | 20 | **1630160033** |
| 5.08 | KSW 4 16/5.08 | 49…64 | 20 | **1630160049** |
| 5.08 | KSW 4 16/5.08 | 65…80 | 20 | **1630160065** |
| 5.08 | KSW 4 16/5.08 | 81…96 | 20 | **1630160081** |
| 5.08 | KSW 4 24/5.08 | 1…24 | 20 | **1630180001** |
| 5.08 | KSW 4 8/5.08 | 1…8 | 20 | **1630200001** |
| 5.08 | KSW 4 16/5.08 | 25…32 | 20 | **1630200025** |
| 5.08 | KSW 4 16/5.08 | 33…40 | 20 | **1630200033** |
| 5.08 | KSW 4 16/5.08 | 41…48 | 20 | **1630200041** |
| 7.50 | KSW 2.5 10/7.50 | 1…100 | 20 | **1630030001** |
| 7.50 | KSW 2.5 10/7.50 | 1…10 | 20 | **1630040001** |
| 7.50 | KSW 2.5 10/7.50 | 101…200 | 20 | **1630030101** |
| 7.50 | KSW 2.5 10/7.50 | 201…300 | 20 | **1630030201** |
| 7.50 | KSW 2.5 10/7.50 | 301…400 | 20 | **1630030301** |
| 7.50 | KSW 2.5 10/7.50 | 401…500 | 20 | **1630030401** |
| 7.50 | KSW 4 12/7.50 | 1…12 | 20 | **1630140001** |
| 7.50 | KSW 4 12/7.50 | 13…24 | 20 | **1630140013** |
| 7.50 | KSW 4 12/7.50 | 25…36 | 20 | **1630140025** |
| 7.50 | KSW 4 12/7.50 | 37…48 | 20 | **1630140037** |
| 7.50 | KSW 4 12/7.50 | 49…60 | 20 | **1630140049** |
| 7.62 | KSW 4 12/7.62 | 1…12 | 20 | **1652270001** |
| 7.62 | KSW 4 12/7.62 | 13…24 | 20 | **1652270013** |
| 9.52 | | | | **on request** |
| 10.16 | KSW 2.5 4/10.16 | 1…4 | 20 | **1630090001** |
| 15.00 | | | | **on request** |

## Technical data KSW

| | |
|---|---|
| Material | Polyester with smooth surface |
| Adhesive | On acrylate basis |
| Adhesive strength (strip width 25 mm) | DIN 51221 on steel: 19N, polypropylene: 12 N, polyethylene: 10 N |
| Temperature range | -40°C to +150°C |
| min. temperature for adhesion | + 4°C |
| Flammability | Self-extinguishing within 15 seconds; does not drip |

### Direct printing

Apart from the standard print, we can also offer custom printing for all pitches.

| Pitch mm | Type | Length mm | Print | Cat. No. |
|---|---|---|---|---|
| all | KSW 2.5 | <50 | custom print | **1629900000** |
| all | KSW 2.5 | <100 | custom print | **1629920000** |
| all | KSW 2.5 | <150 | custom print | **1629940000** |
| all | KSW 4 | <50 | custom print | **1629910000** |
| all | KSW 4 | <100 | custom print | **1629930000** |
| all | KSW 4 | <150 | custom print | **1629950000** |
| all | KSW 2.5 | <50 | neutral | **1629560000** |
| all | KSW 2.5 | <100 | neutral | **1629980000** |
| all | KSW 2.5 | <150 | neutral | **1630000000** |
| all | KSW 4 | <50 | neutral | **1629970000** |
| all | KSW 4 | <100 | neutral | **1629990000** |
| all | KSW 4 | <150 | neutral | **1630010000** |

### Ordering example

Cat. No. 163006 001
KSW 2.5 15/5.08 W 1…15

print

- print runs horizontal
- 5.08 mm pitch
- 15 poles
- 2.5 mm strip width

## STI marking pen


permanent marker, black, waterproof, smudge resistant

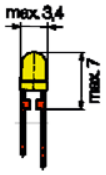
| Type | Cat. No. |
|---|---|
| STI-S fine | **0508401694** |
| STI-F thick | **1632480000** |

## LED Holder LPA FA

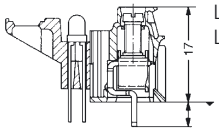
The LED holders and the marker carriers are latched onto the rear of the PCB terminals.
3 versions are available:

The LP FA LED holder permits an LED to be mounted reliably and easily visible onto an **LP 5.08/90** and **LPP 5.08/90** PCB terminal.

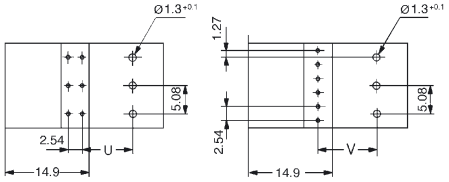
Dimesnions of the LED to fit into the **LPP 5.08/…/90, LPA FA** and **LPA FA BZ**




## Marker Carrier LPA FA BZ



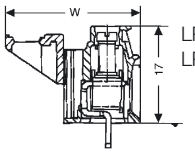

LPA FA BZ shown on LPP 5.08 /… /90




| In combination with | U (mm) | V (mm) |
|---|---|---|
| LP 5.08/ …/90 | 7.75 | 6.48 |
| LPP 5.08/…/90 | 8.89 | 10.16 |

The LPA FA BZ LED holder with integrated marker carrier has the same LED supporting function as the LPA FE but also allows marking with WS 10/5 and WS 12/5 cards. The LPA FA BZ can be latched onto an **LP 5.08/90** or **LPP 5.08/90** PCB terminals.

## Marker Carrier LPA BZ




LPA BZ shown on LPP 5.08 /… /90

| In combination with | W (mm) |
|---|---|
| LP 5.08/ …/90 | 21.2 |
| LPP 5.08/…/90 | 23.6 |

The LPA BZ marker carrier allows comprehensive marking of the PCB using WS 10/5 and WS 12/5 cards. It can be latched onto **LP 5.08/90**, **LPP 5.08/90**, **LP2N 5.08**, **LP2H 5.08** and **LP3R 5.08**

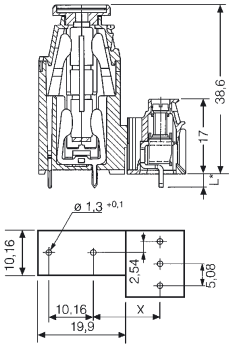
### Ordering data

| Poles/Type | can be used with | Cat. No. | Qty. |
|---|---|---|---|
| 2 LPA FA2 | LP5.08/90, LPP5.08/90 | **1495960000** | 50 |
| 3 LPA FA3 | LP5.08/90, LPP5.08/90 | **1496060000** | 50 |

| Poles/Type | can be used with | Cat. No. | Qty. |
|---|---|---|---|
| 2 LPA FA2 BZ | LP5.08/90, LPP5.08/90 | **1496160000** | 50 |
| 3 LPA FA3 BZ | LP5.08/90, LPP5.08/90 | **1496260000** | 50 |

| Poles/Type | can be used with | Cat. No. | Qty. |
|---|---|---|---|
| 2 LPA BZ2 | LP5.08/90, LPP5.08/90 LP2N 5.08, LP2H5.08, LP3R5.08 | **1497260000** | 100 |
| 3 LPA BZ3 | LP5.08/90, LPP5.08/90 LP2N 5.08, LP2H5.08, LP3R5.08 | **1497360000** | 100 |

## Fuse Holder


| In combination with | X (mm) |
|---|---|
| LP 5.08/ …/90 | 12.84 |
| LPP 5.08/…/90 | 15.24 |

The LPA SI fuse holder will accept G-fuses 5 x 20 or 5 x 25 (DIN 820 or IEC127/part 2). The power loss is 1.6 W.

It can be latched onto the rear of **LP 5.08/90** and **LPP 5.08/90**. It can also be used separately on the PCB or dovetailed (also in combination with LPA TR) whereby max. 12 fuse holders can be dovetailed together.

### Technical Data

| | VDE | UL | CSA |
|---|---|---|---|
| Rated voltage | 250 V | 300 V | 300 V |
| Rated current | 6,3 A | 10 A | 10 A |

### Ordering data

| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Type | can be used with | Cat. No. | Cat. No. | Qty. |
| LPA SI OR | LP 5.08/90 and LPP 5.08/90 | **1495060000** | **1495160000** | 50 |

## Test Plug


The test plug permits a simple and easy check on whether terminals with a test point are live or not.

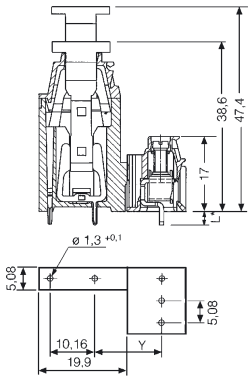
The following terminals have a test point:

LP 5.08/135
LP 5.00/135
LPP 7.50/135
LP 7.62/135
GSE 10
LX 15.00
LPP 5.08/90
LPP 5.00/90
LPP 7.62/90
LPP 7.50/90

### Ordering data

| Type | for max. cable | Cat. No. | Qty. |
|---|---|---|---|
| PS 2.0 | 0,75 mm² | **0310000000** | 20 |

## Disconnect Element


| In combination with | Y (mm) |
|---|---|
| LP 5.08/ …/90 | 12.84 |
| LPP 5.08/…/90 | 15.24 |

The LPA TR disconnect element can be latched to the rear of the **LP 5.08/90** and **LPP 5.08/90**. It can also be dovetailed (also in combination with LPA SI) on the PCB, whereby max. 24 disconnect elements can be dovetailed together

### Technical data

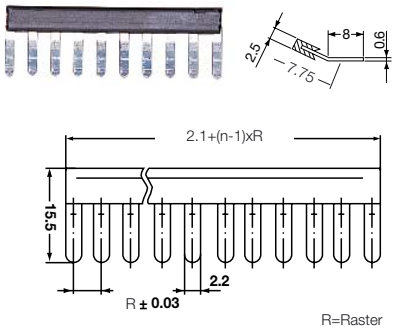
| | VDE | UL | CSA |
|---|---|---|---|
| Rated voltage | 250 V | 300 V | 300 V |
| Rated current | 9 A | 10 A | 10 A |

### Ordering data

| Solder pin length | | 3.2 mm | 4.5 mm | |
|---|---|---|---|---|
| Type | can be used with | Cat. No. | Cat. No. | Qty. |
| LPA TR OR | LP 5.08/90 and LPP 5.08/90 | **1495460000** | **1495560000** | 100 |

## Screwdriver


## Cross-Connections




R=Raster

The cross-connection combs permit post-assembly potential distribution across several poles and eliminates the need for time-consuming bridging.
The use of cross-connection combs reduces the possible cable size to the next lowest wire gauge. Cross-connections are available for various pitches and poles. Pole numbers and pitches not available can be made directly by the customer by snipping off excess cross-connections from the comb using a suitable tool.

## Fixing Block for TOP's

For modular assembly of the TOP1.5GS PCB terminals there is a fixing set available for the PCB. This set consists of a plastic block and the appropriate self-tapping screw (2.9 x 19 mm). It can be used with both the 90° and the 180° versions.

Accessories

### Ordering data

| Type | Clamping screw | Product | Cat. No. |
|---|---|---|---|
| SDI 0.4 x 2.5 x 75 | M2 | LM3.5 | **9008370000** |
| SD 0.6 x 3.5 x 100 | M2.5 | LM 5.0x TOP1.5GS LMT 5.08 PM 5.08 MK 8 MK 7.5 | **9008330000** |
| SD 0.8 x 4.0 x 100 | M3 | System LP TOP4GS | **9008400000** |
| SDI 1.2 x 6.5 x 150 | M4 | LU 10.16 GSE 10 | **9008420000** |
| SD 1.0 x 5.5 x 125 | M5 | LX 15.00 | **9008350000** |

### Ordering data

| Poles | Pitch | Type | Cat. No. | Qty. |
|---|---|---|---|---|
| 2 | 5.08 mm | LPA QB2 | **1472200000** | 50 |
| 3 | 5.08 mm | LPA QB3 | **1472300000** | 50 |
| 4 | 5.08 mm | LPA QB4 | **1472400000** | 50 |
| 10 | 5.08 mm | LPA QB10 | **1472500000** | 20 |
| 17 | 5.08 mm | LPA QB17 | **1584770000** | 20 |
| 24 | 5.08 mm | LPA QB24 | **1472600000** | 20 |

### Ordering data

| Type | Cat. No. | Qty. |
|---|---|---|
| TOP1.5GS BB OR | **1539860000** | 20 |

## Insertion Tool

**Spring displacement tool for tension clamp PCB terminals**

SD 0.6 x 3.5 x 100 (DIN 5264-A)

To displace the tension clamp you do not need a special tool. The channel on the pcb terminal will take a standard screwdriver 0.6 x 3.5 x 100 according to DIN 5264-A with a flat blade.

### Bestelldaten

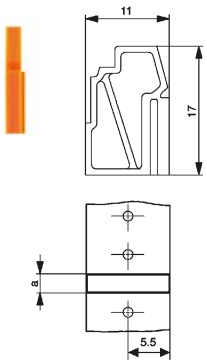
| Type | can be used for | Cat. No. | Qty. |
|---|---|---|---|
| SD 0.6 x 3.5 x 100 | all LMZF 5.08 and LPZF 5.08 | **9008330000** | 10 |

## Ferrules / Tools

Weidmueller supplies a comprehensive range of ferrules, including for example twin ferrules for attaching two wires to one cable entry.

For more information also ask for our sectional catalogue **"Tools"** (cat. no. 5629030000), or consult your nearest Weidmueller Sales Engineer or Representative. They will be only too pleased to assist.

## Adaptor Plates LPZP/90




**Thickness 2.54 mm (a)**

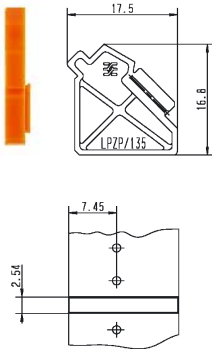
| Type | Cat. No. | Qty. |
|---|---|---|
| LPZP 2.54/90 OR | **1747480000** | 100 |

**Thickness 1.27 mm (a)**

| Type | Cat. No. | Qty. |
|---|---|---|
| LPZP 1.27/90 OR | **1747490000** | 100 |

**Please see processing notes and application examples on page 47-48.**

## Adaptor Plates LPZP/135

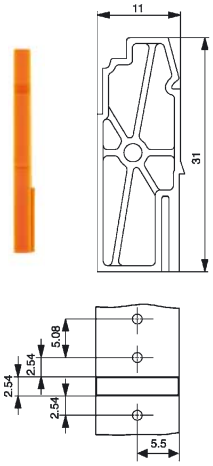



**Thickness 2.54 mm**

| Type | Cat. No. | Qty. |
|---|---|---|
| LPZP 2.54/135 OR | **1753740000** | 100 |

**Please see processing notes and application examples on page 47-48.**

## Adaptor Plates LPZP1N

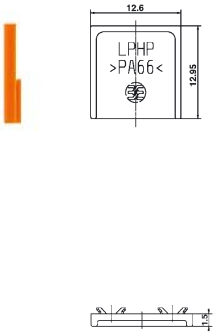



**Thickness 2.54 mm**

| Type | Cat. No. | Qty. |
|---|---|---|
| LPZP1N 2.54 OR | **1747470000** | 100 |

**Please see processing notes and application examples on page 47-48.**

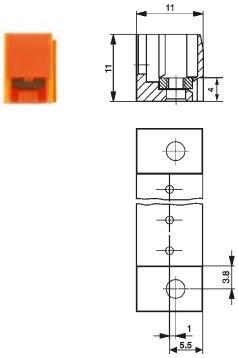
## Fixing Plates LPHP




| Type | Cat. No. | Qty. |
|---|---|---|
| LPHP | **1753440000** | 100 |

**Please see processing notes and application examples on page 47-48.**

## Fixing Blocks LPBB




| Type | Cat. No. | Qty. |
|---|---|---|
| LPBB MU OR * | **1747530000** | 100 |
| LPBB OR ** | **1747540000** | 100 |

**Please see processing notes and application examples on page 47-48.**

* Square nut is inserted. Clamping screw M3 is not included in delivery.
** Square nut M3 DIN 562 and clamping screw M3 are not included in delivery.

## Application Examples of System LP - Adaptor Plates

### LPZP 2.54/90

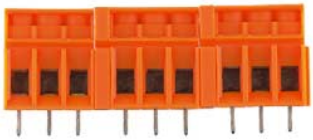


Fig. 1

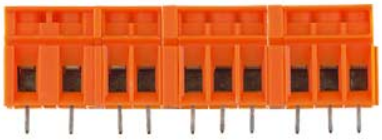


Fig. 2

Fig. 3

LPZP 2.54/90 adaptor plate to create optical separation and pitch stepping (s. fig. 1-3, 9-16) with printed circuit board versions of 90° and 180° cable entry orientation with respect to the pcb.

### LPZP 1.27/90

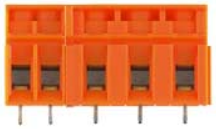


Fig. 4

LPZP 1.27/90 adaptor plate to create the 7.62 mm pitch in assembling terminal blocks in 5.08 mm and 7.62 mm pitch (s. fig. 2-4) with printed circuit board versions of 90° and 180° cable entry orientation with respect to the pcb.

### LPZP 2.54/135

Fig. 5

LPZP 2.54/135 adaptor plate to create optical separation and pitch stepping (s. fig. 5) with printed circuit board versions of 135° cable entry orientation with respect to the pcb.

### LPZP1N 2.54

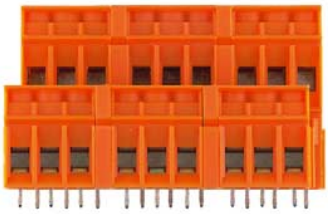


Fig. 6

Adaptor plate to create optical separations and pitch stepping of a rear row of LP2N (s. fig. 6).

Analogous to the rear attachment, a LPZP 2.54/90 must also be inserted in the front row.

### PCB mounting blocks

### LPBB

Fig. 7

Fig. 8

The LPBB is used for safely attaching single-row printed circuit board terminals, with 90° and 180° cable entry orientation and multiple-row printed circuit board terminals, to the pcb (s. fig. 7, 8, 10, 12, 14-15). For the 180° versions, only the LPBB without inserted nut can be used.

### LPHP

Fig. 9

The LPHP fixing plate gives additional safety to the single-pole LP if it is installed at the far end of a pcb terminal in order to produce the pitch 7.62 mm to the next pole with an adaptor plate.

The fixing plate can easily be shifted onto the rear dovetails of the pcb terminal (s. fig. 9, 11, 13 + 16).

# Application Examples of System LP - Adaptor Plates

## Mixed pitches

Fig. 10

Fig. 11

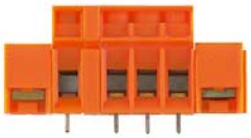


Fig. 12

Fig. 13

Fig. 14

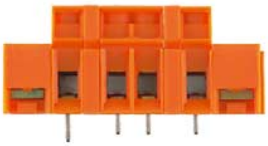


Fig. 15

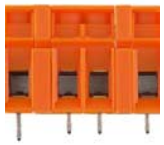


Fig. 16

The single-pole LP permits mixed pitches to be combined easily if this is not possible using two- or three-pole blocks (s. fig. 10-16).

**Caution:**
The single-pole printed circuit board terminal LP may only be at the end of the assembly if it is attached to the printed circuit board using the LPBB fixing blocks. Or if the LPHP provides an additional connection between the outside single-pole element and the neighbouring pole.

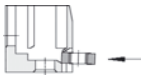
## Processing notes

When mounting a double-level version at first the individual levels must be mounted. Then they can be attached together by the use of dovetails.

In a 24-pole block a maximum of 10 adaptor plates LPZP resp. LPZP1N or 1-pole LP's can be used. Then a maximum of 6 single-pole LP's can be arranged directly together.

## Mounting instruction

Square nut in LPBB for 90° version.



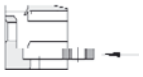
1. Insert nut.

2. Press down nut by use of screwdriver.

3. Press back nut by use of screwdriver.

4. Nut is catched.

Square nut in LPBB for 180° version.



1. Insert nut.

2. Nut is loosely enclosed in the LPBB.

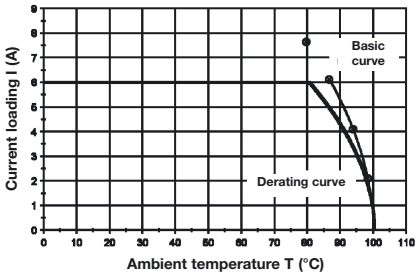
| Materials | | PM 5.08 | | |
|---|---|---|---|---|
| Insulation material | | PA 66 | | |
| Colour [1] | | orange, black | | |
| Temperature range | °C | -20… +100 | | |
| Flammability class. | UL94 | V-2 | | |
| Contact base material | | CuSn | | |
| Contact plating | | tin-plated | | |
| **System characteristic values** | | | | |
| Pitch | mm | 5.08 | | |
| Connection method | | leaf spring connection | | |
| Solder pin length | mm | 3.5 | | |
| PCB hole diameter | Ømm | $1.1^{+0.1}$ | | |
| Insulation stripping length | mm | 6.0 | | |
| Clamping screw | M | 2.5 | | |
| Insulation resistance | MΩ | ≥ $10^3$ | | |
| Through resistance | mΩ | ≤ 1.0 | | |
| Torque | Nm | 0.4 …0.5 | | |
| **Conductor size** | | | | |
| Clamping range | $mm^2$ | 0.18… 1.5 | | |
| "e" solid H05(07) V-U | $mm^2$ | 0.5… 1.5 | | |
| "f" flexible H05(07) V-K | $mm^2$ | 0.5… 1.5 | | |
| "f" with ferrule to DIN 46228/1 | $mm^2$ | 0.5… 1.0 | | |
| … with plastic collar to DIN 46228/4 | $mm^2$ | 0.5… 1.0 | | |
| Gauge to EN 60999 | mm (size) | – | | |
| **VDE 0110 1.89 rated data** | | | | |
| Rated cross-section to EN 60999 | $mm^2$ | 1.5 | | |
| Rated current [3] | A | 17.5 | | |
| **Overvoltage category / Pollution severity** | | **III/3** | **III/2** | **II/2** |
| Rated voltage | V | 250 | 250 | 500 |
| Impulse voltage | kV | 4.0 | 4.0 | 4.0 |
| **UL rated data** | | | | |
| Rated voltage, industrial | V~ | 300 | | |
| Rated current | A | 10 | | |
| AWG conductor (field wiring) | | 22… 14 | | |
| **CSA rated data** | | | | |
| Rated voltage, industrial | V~ | 300 | | |
| Rated current | A | 10 | | |
| AWG conductor (field wiring) | | 22… 14 | | |

**Application notes**

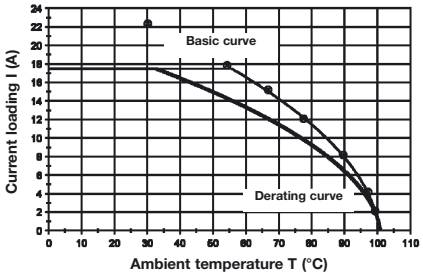
1) additional colours on request

3) referred to 20°C ambient temperature, rated cross-section and number of poles

Ordering data: page 12




PM 5.08/6 poles with
Conductor H05V-K0.5 $mm^2$




PM 5.08/6 poles with
Conductor H07V-K1.5 $mm^2$

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

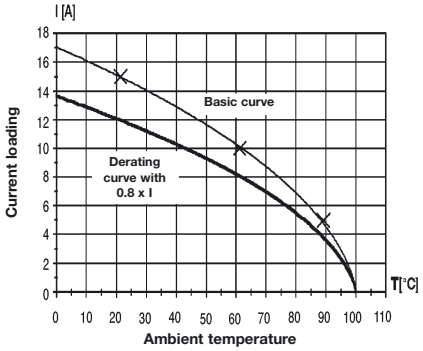
Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

| Materials | | MK8 5.08 | | | MK7.5 | | |
|---|---|---|---|---|---|---|---|
| Insulation material | | PA 66 | | | PA 66 | | |
| Colour 1) | | orange | | | orange | | |
| Temperature range | °C | -20… +100 | | | -20… +100 | | |
| Flammability class. | UL94 | V-2 | | | V-2 | | |
| Contact base material | | CuZn | | | CuZn | | |
| Contact plating | | tin-plated | | | tin-plated | | |
| **System characteristic values** | | | | | | | |
| Pitch | mm | 5.08 | | | 7.50 | | |
| Connection method | | leaf spring connection | | | leaf spring connection | | |
| Solder pin length | mm | 5.0 | | | 5.0 | | |
| PCB hole diameter | Ømm | $1.3^{+0.1}$ | | | $1.3^{+0.1}$ | | |
| Insulation stripping length | mm | 6.0 | | | 6.0 | | |
| Clamping screw | M | 2.5 | | | 2.5 | | |
| Insulation resistance | MΩ | ≥ $10^3$ | | | ≥ $10^3$ | | |
| Through resistance | mΩ | ≤ 0.5 | | | ≤ 0.5 | | |
| Torque | Nm | 0.4 …0.5 | | | 0.4 …0.5 | | |
| **Conductor size** | | | | | | | |
| Clamping range | mm² | 0.5… 1.5 | | | 0.5… 1.5 | | |
| "e" solid H05(07) V-U | mm² | 0.5… 1.5 | | | 0.5… 1.5 | | |
| "f" flexible H05(07) V-K | mm² | 0.5… 1.5 | | | 0.5… 1.5 | | |
| "f" with ferrule to DIN 46228/1 | mm² | 0.5… 1.0 | | | 0.5… 1.0 | | |
| … with plastic collar to DIN 46228/4 | mm² | – | | | – | | |
| Gauge to EN 60999 | mm (size) | 2.4 x 1.5 (A1) | | | 2.4 x 1.5 (A1) | | |
| **VDE 0110 1.89 rated data** | | | | | | | |
| Rated cross-section to EN 60999 | mm² | 1.5 | | | 1.5 | | |
| Rated current 3) | A | 16 | | | 16 | | |
| **Overvoltage category / Pollution severity** | | **III/3** | **III/2** | **II/2** | **III/3** | **III/2** | **II/2** |
| Rated voltage | V | 160 | 100 | 150 | 250 | 400 | 630 |
| Impulse voltage | kV | 1.5 | 1.5 | 1.5 | 4.0 | 4.0 | 4.0 |
| **UL rated data** | | | | | | | |
| Rated voltage, industrial | V~ | 150 | | | 300 | | |
| Rated current | A | 15 | | | 16 | | |
| AWG conductor (field wiring) | | 22… 14 | | | 22… 16 | | |
| **CSA rated data** | | | | | | | |
| Rated voltage, industrial | V~ | 150 | | | 300 | | |
| Rated current | A | 15 | | | 10 | | |
| AWG conductor (field wiring) | | 22… 14 | | | 22… 16 | | |
| **Application notes** | | | | | | | |
| 1) additonal colours on request | | Ordering data: page 12 | | | Ordering data: page 12 | | |
| 3) referred to 20°C ambient temperature, rated cross-section and number of poles | | | | | | | |

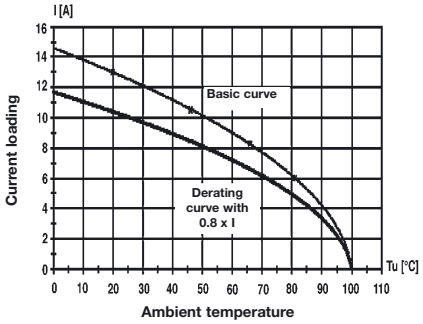
For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

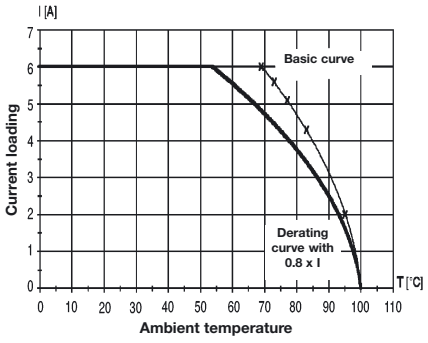
| Materials | | LM 3.5 | LM1N 3.5 / LM2N 3.5 |
|---|---|---|---|
| Insulation material | | PA 66 | PA 66 |
| Colour [1] | | orange, black | orange, black |
| Temperature range | °C | -20… +100 | -20… +100 |
| Flammability class. | UL94 | V-2 | V-2 |
| Contact base material | | CuSn | CuSn |
| Contact plating | | tin-plated | tin-plated |
| **System characteristic values** | | | |
| Pitch | mm | 3.5 | 3.5 |
| Connection method | | screw clamp connection | screw clamp connection |
| Solder pin length | mm | 3.2/4.5 | 3.2/4.5 |
| PCB hole diameter | Ømm | $1.3^{+0.1}$ | $1.3^{+0.1}$ |
| Insulation stripping length | mm | 5.0 | 5.0 |
| Clamping screw | M | 2 | 2 |
| Insulation resistance | MΩ | ≥ $10^3$ | ≥ $10^3$ |
| Through resistance | mΩ | ≤ 2.2 | ≤ 3.6 |
| Torque | Nm | 0.2 …0.25 | 0.2 …0.25 |
| **Conductor size** | | | |
| Clamping range | mm² | 0.08… 1.5 | 0.08… 1.5 |
| "e" solid H05(07) V-U | mm² | 0.5… 1.5 | 0.5… 1.5 |
| "f" flexible H05(07) V-K | mm² | 0.5… 1.5 | 0.5… 1.5 |
| "f" with ferrule to DIN 46228/1 | mm² | - | - |
| … with plastic collar to DIN 46228/4 | mm² | - | - |
| Gauge to EN 60999 | mm (size) | 2.4 x 1.5 (A1) | 2.4 x 1.5 (A1) |
| **VDE 0110 1.89 rated data** | | | |
| Rated cross-section to EN 60999 | mm² | 1.5 | 1.5 |
| Rated current [3] | A | 12 | 10 |
| **Overvoltage category / Pollution severity** | | **III/3 III/2 II/2** | **III/3 III/2 II/2** |
| Rated voltage | V | 125 200 320 | 125 200 320 |
| Impulse voltage | kV | 2.5 2.5 2.5 | 2.5 2.5 2.5 |
| **UL rated data** | | | |
| Rated voltage, industrial | V~ | 300 | 300 |
| Rated current | A | 10 | 10 |
| AWG conductor (field wiring) | | 28… 14 | 28… 14 |
| **CSA rated data** | | | |
| Rated voltage, industrial | V~ | 300 | 300 |
| Rated current | A | 10 | 10 |
| AWG conductor (field wiring) | | 28… 14 | 28… 14 |
| **Application notes** | | | |
| 1) additional colours on request | | Ordering data: page 13 | Ordering data: page13-14 |
| 3) referred to 20°C ambient temperature, rated cross-section and number of poles | | | |




LM 3.5/24/90 3.2 OR with Conductor H07V-K1.5 mm²




LM2N 3.5/12 3.2 OR with Conductor H07V-K1.5 mm²




LM2N 3.5/12 3.2 OR with Conductor H05V-K0.5 mm²

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

| Materials | | LM 5.00 | LM 5.08 |
|---|---|---|---|
| Insulation material | | PA 66 | PA 66 |
| Colour [1] | | orange, black | orange, black |
| Temperature range | °C | -20… +100 | -20… +100 |
| Flammability class. | UL94 | V-2 | V-2 |
| Contact base material | | CuZn | CuZn |
| Contact plating | | tin-plated | tin-plated |

| System characteristic values | | | |
|---|---|---|---|
| Pitch | mm | 5.00 | 5.08 |
| Connection method | | screw clamp connection | screw clamp connection |
| Solder pin length | mm | 3.5 | 3.5 |
| PCB hole diamter | Ømm | $1.3^{+0.1}$ | $1.3^{+0.1}$ |
| Insulation stripping length | mm | 6.0 | 6.0 |
| Clamping screw | M | 2.5 | 2.5 |
| Insulation resistance | MΩ | ≥ $10^3$ | ≥ $10^3$ |
| Through resistance | mΩ | ≤ 1.2 | ≤ 1.2 |
| Torque | Nm | 0.4 …0.5 | 0.4 …0.5 |

| Conductor size | | | |
|---|---|---|---|
| Clamping range | mm² | 0.14…1.5 | 0.14…1.5 |
| "e" solid H05(07) V-U | mm² | 0.5…1.5 | 0.5…1.5 |
| "f" flexible H05(07) V-K | mm² | 0.5…1.5 | 0.5…1.5 |
| "f" with ferrule to DIN 46228/1 | mm² | 0.5…1.0 | 0.5…1.0 |
| … with plastic collar to DIN 46228/4 | mm² | 0.5…1.0 | 0.5…1.0 |
| Gauge to EN 60999 | mm (size) | 2.4 x 1.5 (A1) | 2.4 x 1.5 (A1) |

| VDE 0110 1.89 rated data | | | | | | | |
|---|---|---|---|---|---|---|---|
| Rated cross-section to EN 60999 | | mm² | 1.5 | | | 1.5 | |
| Rated current [3] | **for LM 5.00/5.08** | A | 17.5 | | | 17.5 | |
| | **for LM2N 5.08** | A | – | | | 15.5 | |
| | **for LM2H 5.08** | A | – | | | 15 | |
| | **for LM3R 5.08** | A | – | | | 13.5 | |
| **Overvoltage category / Pollution severity** | | | **III/3** | **III/2** | **II/2** | **III/3** | **III/2** | **II/2** |
| Rated voltage | | V | 250 | 250 | 500 | 250 | 250 | 500 |
| Impulse voltage | | kV | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |

| UL rated data | | | |
|---|---|---|---|
| Rated voltage, industrial | V~ | 300 | 300 |
| Rated current | A | 10 | 10 |
| AWG conductor (field wiring) | | 24… 14 | 24… 14 |

| CSA rated data | | | |
|---|---|---|---|
| Rated voltage, industrial | V~ | 300 | 300 |
| Rated current | A | 10 | 10 |
| AWG conductor (field wiring) | | 24… 14 | 24… 14 |

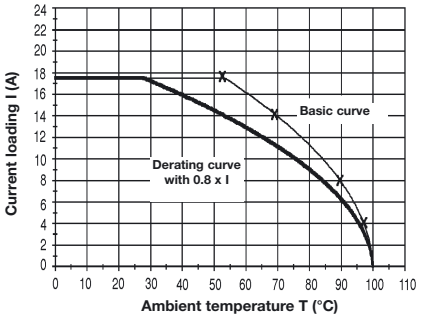
**Application notes**

1) additional colours on request

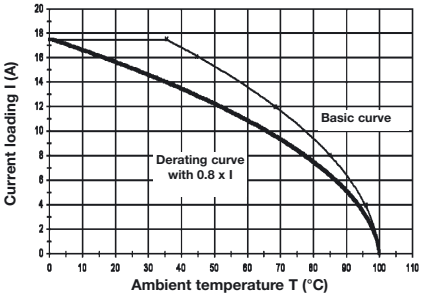
3) referred to 20°C ambient temperature, rated cross-section and number of poles

Ordering data: page 15

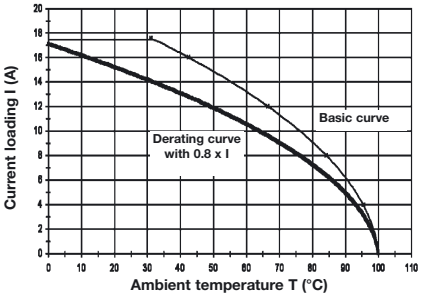
Ordering data: page 16-18



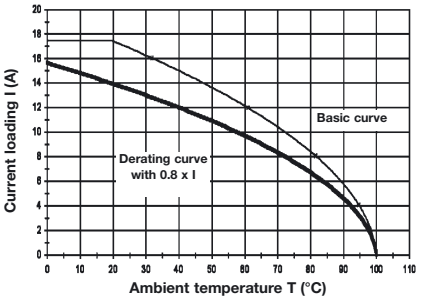

LM 5.08/180/6 poles with Conductor H07V-K1.5 mm²




LM2N 5.08/90/6 poles with Conductor H07V-K1.5 mm²




LM2H 5.08/90/6 poles with Conductor H07V-K1.5 mm²

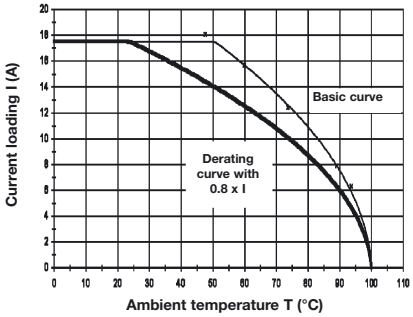



LM3R 5.08/90/6 poles with Conductor H07V-K1.5 mm²

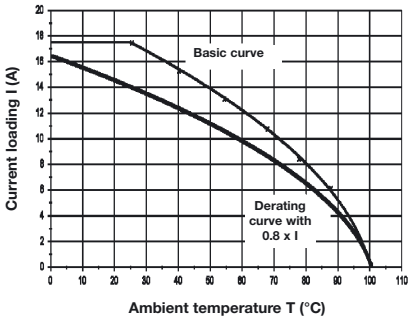
For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

| Materials | | LMZF 5.08/90°/180° | | | LMZF 5.08/135° | | |
|---|---|---|---|---|---|---|---|
| Insulation material | | PA 66 | | | PA 66 | | |
| Colour [1] | | orange | | | orange | | |
| Temperature range | °C | -20… +100 | | | -20… +100 | | |
| Flammability class. | UL94 | V-2 | | | V-2 | | |
| Contact base material | | E-Cu | | | CuSn | | |
| Contact plating | | tin-plated | | | tin-plated | | |
| **System characteristic values** | | | | | | | |
| Pitch | mm | 5.08 | | | 5.08 | | |
| Connection method | | tension clamp connection | | | tension clamp connection | | |
| Solder pin length | mm | 2.8/3.2/4.1/4.5 | | | 3.2/4.5 | | |
| PCB hole diamter | Ømm | $1.3^{+0.1}$ | | | $1.3^{+0.1}$ | | |
| Insulation stripping length | mm | 7.0 | | | 7.0 | | |
| Clamping screw | M | – | | | – | | |
| Insulation resistance | MΩ | ≥ $10^3$ | | | ≥ $10^3$ | | |
| Through resistance | mΩ | ≤ 1.3 | | | ≤ 3.9 | | |
| Torque | Nm | – | | | – | | |
| **Conductor size** | | | | | | | |
| Clamping range | $mm^2$ | 0.14… 1.5 | | | 0.14… 1.5 | | |
| "e" solid H05(07) V-U | $mm^2$ | 0.5… 1.5 | | | 0.5… 1.5 | | |
| "f" flexible H05(07) V-K | $mm^2$ | 0.5… 1.5 | | | 0.5… 1.5 | | |
| "f" with ferrule to DIN 46228/1 | $mm^2$ | 0.5… 1.5 | | | 0.5… 1.5 | | |
| … with plastic collar to DIN 46228/4 | $mm^2$ | - | | | - | | |
| Gauge to EN 60999 | mm (size) | 2.4 x 1.5 (A1) | | | 2.4 x 1.5 (A1) | | |
| **VDE 0110 1.89 rated data** | | | | | | | |
| Rated cross-section to EN 60999 | $mm^2$ | 1.5 | | | 1.5 | | |
| Rated current [3] | A | 14 | | | 14 | | |
| **Overvoltage category / Pollution severity** | | **III/3** | **III/2** | **II/2** | **III/3** | **III/2** | **II/2** |
| Rated voltage | V | 250 | 400 | 630 | 250 | 400 | 630 |
| Impulse voltage | kV | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| **UL rated data** | | | | | | | |
| Rated voltage, industrial | V~ | 300 | | | 300 | | |
| Rated current | A | 10 | | | 10 | | |
| AWG conductor (field wiring) | | 26… 14 | | | 26… 14 | | |
| **CSA rated data** | | | | | | | |
| Rated voltage, industrial | V~ | 300 | | | 300 | | |
| Rated current | A | 10 | | | 10 | | |
| AWG conductor (field wiring) | | 26… 14 | | | 26… 14 | | |
| **Application notes** | | | | | | | |
| 1) additional colours on request | | Ordering data: page 19 | | | Ordering data: page19 | | |
| 3) referred to 20°C ambient temperature, rated cross-section and number of poles | | | | | | | |




LMZF 5.08/90/6 poles with Conductor H07V-K1.5 $mm^2$

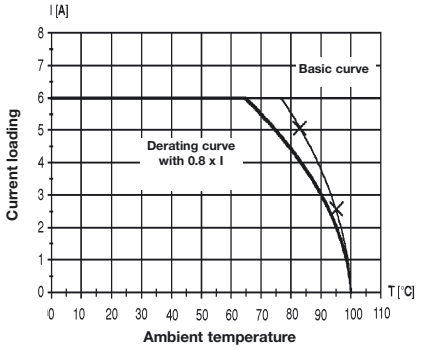



LMZF 5.08/180/24 poles with Conductor H07V-K1.5 $mm^2$

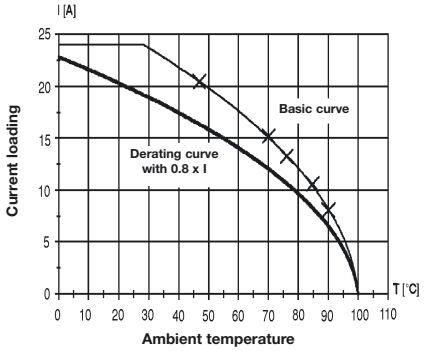
For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

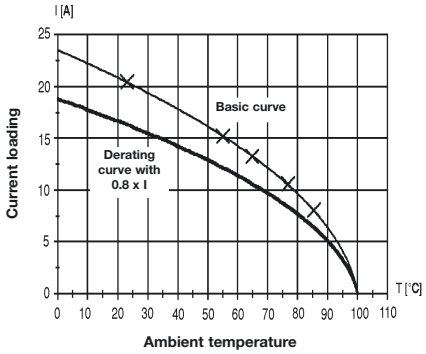
| Materials | | LM2NZF/LM3RZF 5.08 | LPZF 5.08 |
|---|---|---|---|
| Insulation material | | PA 66 | PA 66 |
| Colour 1) | | orange | black |
| Temperature range | °C | -20… +100 | -20… +100 |
| Flammability class. | UL94 | V-2 | V-2 |
| Contact base material | | Cu-alloy | CuSn |
| Contact plating | | tin-plated | tin-plated |
| **System characteristic values** | | | |
| Pitch | mm | 5.08 | 5.08 |
| Connection method | | tension clamp connection | tension clamp connection |
| Solder pin length | mm | 3.5 | 3.2/4.5 |
| PCB hole diamter | Ømm | $1.3^{+0.1}$ | $1.3^{+0.1}$ |
| Insulation stripping length | mm | 7.5 | 11.0 |
| Clamping screw | M | – | – |
| Insulation resistance | MΩ | – | ≥ $10^3$ |
| Through resistance | mΩ | ≤ 2.1 | ≤ 2.5 |
| Torque | Nm | – | – |
| **Conductor size** | | | |
| Clamping range | mm² | 0.2… 2.5 | 0.14… 2.5 |
| "e" solid H05(07) V-U | mm² | 0.2… 2.5 | 0.5… 2.5 |
| "f" flexible H05(07) V-K | mm² | 0.2… 1.5 | 0.5… 2.5 |
| "f" with ferrule to DIN 46228/1 | mm² | 0.25… 1.5 | 0.5… 1.5 |
| … with plastic collar to DIN 46228/4 | mm² | 0.25… 1.5 | 0.5… 1.5 |
| Gauge to EN 60999 | mm (size) | A1 | 2.8 x 2.0 (A2) |
| **VDE 0110 1.89 rated data** | | | |
| Rated cross-section to EN 60999 | mm² | 2.5 | 2.5 |
| Rated current 3) | A | 12 | 16 |
| **Overvoltage category / Pollution severity** | | III/3 III/2 II/2 | III/3 III/2 II/2 |
| Rated voltage | V | 250 320 630 | 250 250 500 |
| Impulse voltage | kV | 4.0 4.0 4.0 | 4.0 4.0 4.0 |
| **UL rated data** | | | |
| Rated voltage, industrial | V~ | 300 | 300 |
| Rated current | A | 10 | 10 |
| AWG conductor (field wiring) | | 26… 12 | 26… 14 |
| **CSA rated data** | | | |
| Rated voltage, industrial | V~ | 300 | 300 |
| Rated current | A | 10 | 10 |
| AWG conductor (field wiring) | | 28… 12 | 26… 14 |
| **Application notes** | | | |
| 1) additional colours on request | | Ordering data: page 20 | Ordering data: page 20 |
| 3) referred to 20°C ambient temperature, rated cross-section and number of poles | | | |




LPZF 5.08/2/180 3.2 BK with
Conductor H05V-K0.5 mm²




LPZF 5.08/2/180 3.2 OR with
Conductor H07V-K2.5 mm²

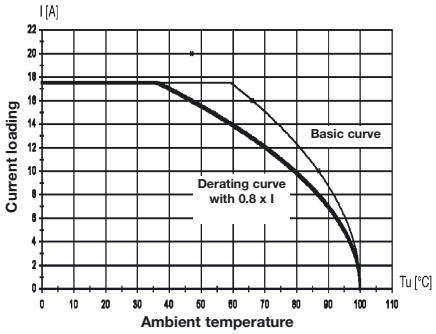



LPZF 5.08/12/180 3.2 OR with
Conductor H07V-K2.5 mm²

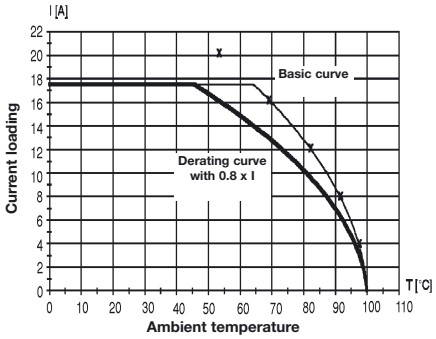
For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

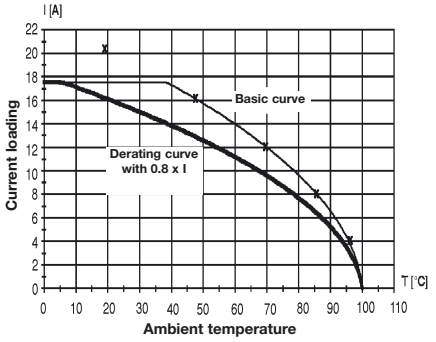
| Materials | | TOP 1.5GS/5.08 | LMT 5.08 |
|---|---|---|---|
| Insulation material | | PA 66 | PA 66 |
| Colour 1) | | orange, grey | black |
| Temperature range | °C | -20… +100 | -20… +100 |
| Flammability class. | UL94 | V-2 | V-2 |
| Contact base material | | CuZn | CuSn |
| Contact plating | | tin-plated | tin-plated |
| **System characteristic values** | | | |
| Pitch | mm | 5.08 | 5.08 |
| Connection method | | TOP connection | TOP connection |
| Solder pin length | mm | 3.8/4.8 | 3.2/4.5 |
| PCB hole diamter | Ømm | $1.3^{+0.1}$ | $1.3^{+0.1}$ |
| Insulation stripping length | mm | 10.0 | 11.0 |
| Clamping screw | M | 2.5 | 2.5 |
| Insulation resistance | MΩ | ≥ $10^3$ | ≥ $10^3$ |
| Through resistance | mΩ | ≤ 1.2 | ≤ 1.8 |
| Torque | Nm | 0.4 …0.5 | 0.4 …0.5 |
| **Conductor size** | | | |
| Clamping range | mm² | 0.13… 1.5 | 0.14… 1.5 |
| "e" solid H05(07) V-U | mm² | 0.5… 1.5 | 0.5… 1.5 |
| "f" flexible H05(07) V-K | mm² | 0.5… 1.5 | 0.5… 1.5 |
| "f" with ferrule to DIN 46228/1 | mm² | 0.5… 1.5 | 0.5… 1.5 |
| … with plastic collar to DIN 46228/4 | mm² | 0.5… 1.5 | 0.5… 1.5 |
| Gauge to EN 60999 | mm (size) | 2.4 x 1.5 (A1) | 2.4 x 1.5 (A1) |
| **VDE 0110 1.89 rated data** | | | |
| Rated cross-section to EN 60999 | mm² | 1.5 | 1.5 |
| Rated current 3) | A | 16 | 16 |
| **Overvoltage category / Pollution severity** | | III/3 III/2 II/2 | III/3 III/2 II/2 |
| Rated voltage | V | 250 320 630 | 250 400 630 |
| Impulse voltage | kV | 4.0 4.0 4.0 | 4.0 4.0 4.0 |
| **UL rated data** | | | |
| Rated voltage, industrial | V~ | 300 | 300 |
| Rated current | A | 10 | 10 |
| AWG conductor (field wiring) | | 26… 14 | 26… 14 |
| **CSA rated data** | | | |
| Rated voltage, industrial | V~ | 300 | 300 |
| Rated current | A | 10 | 10 |
| AWG conductor (field wiring) | | 26… 14 | 26… 14 |
| **Application notes** | | | |
| 1) additional colours on request | | Ordering data: page 21 | Ordering data: page 21 |
| 3) referred to 20°C ambient temperature, rated cross-section and number of poles | | | |




TOP1.5GS4/90 2STI OR with
Conductor H07V-K1.5 mm²




LMT 5.08/180/2 poles with
Conductor H07V-K1.5 mm²




LMT 5.08/180/12 poles with
Conductor H07V-K1.5 mm²

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

| Materials | | TOP 1.5GS/7.62 | | |
|---|---|---|---|---|
| Insulation material | | PA 66 | | |
| Colour 1) | | orange | | |
| Temperature range | °C | -20… +100 | | |
| Flammability class. | UL94 | V-2 | | |
| Contact base material | | CuZn | | |
| Contact plating | | tin-plated | | |
| **System characteristic values** | | | | |
| Pitch | mm | 7.62 | | |
| Connection method | | TOP-Anschluss | | |
| Solder pin length | mm | 4.5 | | |
| PCB hole diamter | Ømm | $1.3^{+0.1}$ | | |
| Insulation stripping length | mm | 10.0 | | |
| Clamping screw | M | 2.5 | | |
| Insulation resistance | MΩ | ≥ $10^3$ | | |
| Through resistance | mΩ | ≤ 1.2 | | |
| Torque | Nm | 0.4 …0.5 | | |
| **Conductor size** | | | | |
| Clamping range | $mm^2$ | 0.13… 1.5 | | |
| "e" solid H05(07) V-U | $mm^2$ | 0.5… 1.5 | | |
| "f" flexible H05(07) V-K | $mm^2$ | 0.5… 1.5 | | |
| "f" with ferrule to DIN 46228/1 | $mm^2$ | 0.5… 1.5 | | |
| … with plastic collar to DIN 46228/4 | $mm^2$ | 0.5… 1.5 | | |
| Gauge to EN 60999 | mm (size) | 2.4 x 1.5 (A1) | | |
| **VDE 0110 1.89 rated data** | | | | |
| Rated cross-section to EN 60999 | $mm^2$ | 1.5 | | |
| Rated current 3) | A | 16 | | |
| **Overvoltage category / Pollution severity** | | **III/3** | **III/2** | **II/2** |
| Rated voltage | V | 500 | 630 | 1000 |
| Impulse voltage | kV | 6.0 | 6.0 | 6.0 |
| **UL rated data** | | | | |
| Rated voltage, industrial | V~ | 300 | | |
| Rated current | A | 10 | | |
| AWG conductor (field wiring) | | 26… 14 | | |
| **CSA rated data** | | | | |
| Rated voltage, industrial | V~ | 300 | | |
| Rated current | A | 10 | | |
| AWG conductor (field wiring) | | 26… 14 | | |

**Application notes**

1) additional colours on request

3) referred to 20°C ambient temperature, rated cross-section and number of poles

Ordering data: page 22

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

| Materials | | LP 5.00/5.08 | LPTR 5.08/1 |
|---|---|---|---|
| Insulation material | | PA 66 | PA 66 |
| Colour [1] | | orange, black | orange, black |
| Temperature range | °C | -20… +100 | -20… +100 |
| Flammability class. | UL94 | V-2 | V-2 |
| Contact base material | | Cu-alloy | Cu-alloy |
| Contact plating | | tin-plated | tin-plated |
| **System characteristic values** | | | |
| Pitch | mm | 5.00/5.08 | 5.08 |
| Connection method | | screw clamp connection | screw clamp connection |
| Solder pin length | mm | 3.2/4.5 | 3.2/4.5 |
| PCB hole diamter | Ømm | $1.3^{+0.1}$ | $1.3^{+0.1}$ |
| Insulation stripping length | mm | 7.0 | 7.0 |
| Clamping screw | M | 3 | 3 |
| Insulation resistance | MΩ | ≥ $10^3$ | ≥ $10^3$ |
| Through resistance | mΩ | ≤ 1.2 | ≤ 1.9 |
| Torque | Nm | 0.5 …0.6 | 0.5 …0.6 |
| **Conductor size** | | | |
| Clamping range | mm² | 0.13… 4.0 | 0.13… 4.0 |
| "e" solid H05(07) V-U | mm² | 0.5… 4.0 | 0.5… 4.0 |
| "f" flexible H05(07) V-K | mm² | 0.5… 2.5 | 0.5… 2.5 |
| "f" with ferrule to DIN 46228/1 | mm² | 0.5… 2.5 | 0.5… 2.5 |
| … with plastic collar to DIN 46228/4 | mm² | – | – |
| Gauge to EN 60999 | mm (size) | 2.8 x 2.4 (A3) | 2.8 x 2.4 (A3) |
| **VDE 0110 1.89 rated data** | | | |
| Rated cross-section to EN 60999 | mm² | 4.0 | 4.0 |
| Rated current [3] **for LP and LPP** | A | 25 | 20 |
| **for LPN and LPH** | A | 24 | – |
| **for LP3R** | A | 22 | – |
| **Overvoltage category / Pollution severity** | | **III/3 III/2 II/2** | **III/3 III/2 II/2** |
| Rated voltage | V | 250 250 500 | 250 250 500 |
| Impulse voltage | kV | 4.0 4.0 4.0 | 4.0 4.0 4.0 |
| **UL rated data** | | | |
| Rated voltage, industrial | V~ | 300 | 300 |
| Rated current | A | 15 | 15 |
| AWG conductor (field wiring) | | 26… 12 | 26 …12 |
| **CSA rated data** | | | |
| Rated voltage, industrial | V~ | 300 | 300 |
| Rated current | A | 15 | 15 |
| AWG conductor (field wiring) | | 26… 12 | 26 …12 |

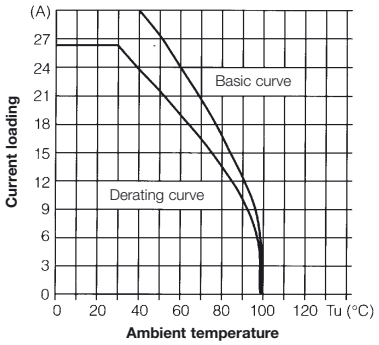
**Application notes**

1) additional colours on request

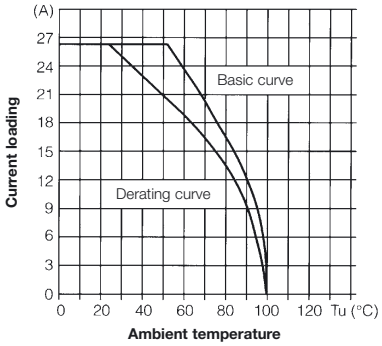
3) referred to 20°C ambient temperature, rated cross-section and number of poles

Ordering data: page 23-28

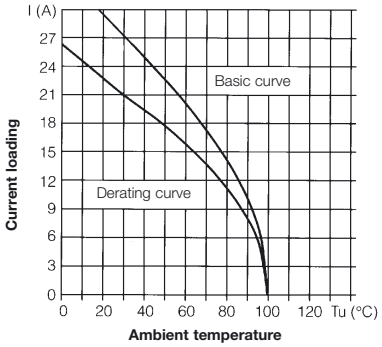
Ordering data: page 28




LP 5.08/6/90 with
Conductor H07V-K2.5 mm²




LP2N 5.08/12/90 with
Conductor H07V-K2.5 mm²




LP3R 5.08/18/90 with
Conductor H07V-K2.5 mm²

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

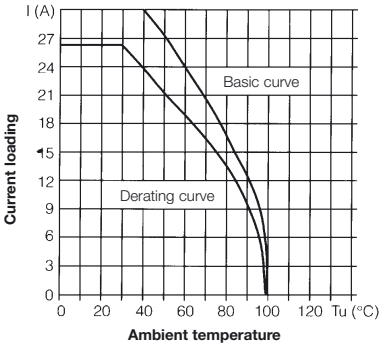
| Materials | | LP 7.50/7.62 | | |
|---|---|---|---|---|
| Insulation material | | PA 66 | | |
| Colour 1) | | orange, black | | |
| Temperature range | °C | -20… +100 | | |
| Flammability class. | UL94 | V-2 | | |
| Contact base material | | Cu-alloy | | |
| Contact plating | | tin-plated | | |
| **System characteristic values** | | | | |
| Pitch | mm | 7.50/7.62 | | |
| Connection method | | screw clamp connection | | |
| Solder pin length | mm | 3.2/4.5 | | |
| PCB hole diamter | Ømm | $1.3^{+0.1}$ | | |
| Insulation stripping length | mm | 7.0 | | |
| Clamping screw | M | 3 | | |
| Insulation resistance | MΩ | ≥ $10^3$ | | |
| Through resistance | mΩ | ≤ 1.2 | | |
| Torque | Nm | 0.5 …0.6 | | |
| **Conductor size** | | | | |
| Clamping range | $mm^2$ | 0.13… 4.0 | | |
| "e" solid H05(07) V-U | $mm^2$ | 0.5… 4.0 | | |
| "f" flexible H05(07) V-K | $mm^2$ | 0.5… 2.5 | | |
| "f" with ferrule to DIN 46228/1 | $mm^2$ | 0.5… 2.5 | | |
| … with plastic collar to DIN 46228/4 | $mm^2$ | – | | |
| Gauge to EN 60999 | mm (size) | 2.8 x 2.4 (A3) | | |
| **VDE 0110 1.89 rated data** | | | | |
| Rated cross-section to EN 60999 | $mm^2$ | 4.0 | | |
| Rated current 3) **for LP and LPP** | A | 26 | | |
| **Overvoltage category / Pollution severity** | | **III/3** | **III/2** | **II/2** |
| Rated voltage | V | 500 | 500 | 1000 |
| Impulse voltage | kV | 6.0 | 6.0 | 6.0 |
| **UL rated data** | | | | |
| Rated voltage, industrial | V~ | 300 | | |
| Rated current | A | 15 | | |
| AWG conductor (field wiring) | | 26… 12 | | |
| **CSA rated data** | | | | |
| Rated voltage, industrial | V~ | 300 | | |
| Rated current | A | 15 | | |
| AWG conductor (field wiring) | | 26… 12 | | |

**Application notes**

1) additional colours on request

3) referred to 20°C ambient temperature, rated cross-section and number of poles

Ordering data: page 29-31




LP 7.62/6/90 with
Conductor H07V-K2.5 $mm^2$



For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

| Materials | | LP 10.00 | LP 15.00 |
|---|---|---|---|
| Insulation material | | PA 66 | PA 66 |
| Colour [1] | | orange, black | orange, black |
| Temperature range | °C | -20… +100 | -20… +100 |
| Flammability class. | UL94 | V-2 | V-2 |
| Contact base material | | Cu-alloy | Cu-alloy |
| Contact plating | | tin-plated | tin-plated |
| **System characteristic values** | | | |
| Pitch | mm | 10.00 | 15.00 |
| Connection method | | screw clamp connection | screw clamp connection |
| Solder pin length | mm | 3.2/4.5 | 3.2/4.5 |
| PCB hole diamter | Ømm | $1.3^{+0.1}$ | $1.3^{+0.1}$ |
| Insulation stripping length | mm | 7.0 | 7.0 |
| Clamping screw | M | 3 | 3 |
| Insulation resistance | MΩ | ≥ $10^3$ | ≥ $10^3$ |
| Through resistance | mΩ | ≤ 1.2 | ≤ 1.2 |
| Torque | Nm | 0.5 …0.6 | 0.5 …0.6 |
| **Conductor size** | | | |
| Clamping range | $mm^2$ | 0.13… 4.0 | 0.13… 4.0 |
| "e" solid H05(07) V-U | $mm^2$ | 0.5… 4.0 | 0.5… 4.0 |
| "f" flexible H05(07) V-K | $mm^2$ | 0.5… 2.5 | 0.5… 2.5 |
| "f" with ferrule to DIN 46228/1 | $mm^2$ | 0.5… 2.5 | 0.5… 2.5 |
| … with plastic collar to DIN 46228/4 | $mm^2$ | – | – |
| Gauge to EN 60999 | mm (size) | 2.8 x 2.4 (A3) | 2.8 x 2.4 (A3) |

| VDE 0110 1.89 rated data | | | | | | | |
|---|---|---|---|---|---|---|---|
| Rated cross-section to EN 60999 | $mm^2$ | 4.0 | | | 4.0 | | |
| Rated current [3] | A | 26 | | | 27 | | |
| **Overvoltage category / Pollution severity** | | **III/3** | **III/2** | **II/2** | **III/3** | **III/2** | **II/2** |
| Rated voltage | V | 630 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Impulse voltage | kV | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| **UL rated data** | | | | | | | |
| Rated voltage, industrial | V~ | 300 | | | 600 | | |
| Rated current | A | 15 | | | 15 | | |
| AWG conductor (field wiring) | | 26… 12 | | | 26… 12 | | |
| **CSA rated data** | | | | | | | |
| Rated voltage, industrial | V~ | 300 | | | 600 | | |
| Rated current | A | 15 | | | 15 | | |
| AWG conductor (field wiring) | | 26… 12 | | | 26… 12 | | |

**Application notes**

1) additional colours on request

3) referred to 20°C ambient temperature, rated cross-section and number of poles

Ordering data: page 32

Ordering data: page 32

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

| Materials | | GSF 5 | | |
|---|---|---|---|---|
| Insulation material | | PA 66 | | |
| Colour [1] | | orange | | |
| Temperature range | °C | -20… +100 | | |
| Flammability class. | UL94 | V-2 | | |
| Contact base material | | CuZn | | |
| Contact plating | | tin-plated | | |
| **System characteristic values** | | | | |
| Pitch | mm | 5.00 | | |
| Connection method | | puch-on tab connection | | |
| Solder pin length | mm | 3.4 | | |
| PCB hole diamter | Ømm | $1.3^{+0.1}$ | | |
| Insulation stripping length | mm | – | | |
| Clamping screw | M | – | | |
| Insulation resistance | MΩ | ≥ $10^3$ | | |
| Through resistance | mΩ | ≤ 1.2 | | |
| Torque | Nm | – | | |
| **Conductor size** | | | | |
| Clamping range | $mm^2$ | 0.25… 2.5 | | |
| "e" solid H05(07) V-U | $mm^2$ | – | | |
| "f" flexible H05(07) V-K | $mm^2$ | 0.25… 2.5 | | |
| "f" with ferrule to DIN 46228/1 | $mm^2$ | – | | |
| … with plastic collar to DIN 46228/4 | $mm^2$ | – | | |
| Gauge to EN 60999 | mm (size) | – | | |
| **VDE 0110 1.89 rated data** | | | | |
| Rated cross-section to EN 60999 | $mm^2$ | 2.5 | | |
| Rated current [3] | A | 14 | | |
| **Overvoltage category / Pollution severity** | | **III/3** | **III/2** | **II/2** |
| Rated voltage | V | 200 [4] | 400 | 630 |
| Impulse voltage | kV | 4.0 | 4.0 | 4.0 |
| **UL rated data** | | | | |
| Rated voltage, industrial | V~ | 300 | | |
| Rated current | A | 8 | | |
| AWG conductor (field wiring) | | – | | |
| **CSA rated data** | | | | |
| Rated voltage, industrial | V~ | 300 | | |
| Rated current | A | 10 | | |
| AWG conductor (field wiring) | | – | | |

**Application notes**

1) additional colours on request

3) referred to 20°C ambient temperature, rated cross-section and number of poles

4) mit Isolierhülse IH 6.3

Ordering data: page 37

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

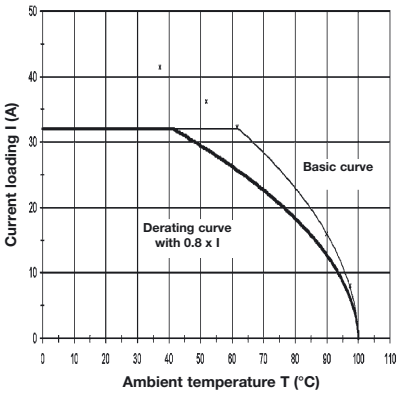
| Materials | | LL 9.5 | | |
|---|---|---|---|---|
| Insulation material | | PA 66 | | |
| Colour 1) | | orange, black | | |
| Temperature range | °C | -20… +100 | | |
| Flammability class. | UL94 | V-0 | | |
| Contact base material | | CuSn | | |
| Contact plating | | tin-plated | | |
| **System characteristic values** | | | | |
| Pitch | mm | 9.52 | | |
| Connection method | | screw clamp connection | | |
| Solder pin length | mm | 5.0 | | |
| PCB hole diamter | Ømm | $1.3^{+0.1}$ | | |
| Insulation stripping length | mm | 7.0 | | |
| Clamping screw | M | 3 | | |
| Insulation resistance | MΩ | ≥ $10^3$ | | |
| Through resistance | mΩ | ≤ 0.7 | | |
| Torque | Nm | 0.5 …0.6 | | |
| **Conductor size** | | | | |
| Clamping range | mm² | 0.18 …6.0 | | |
| "e" solid H05(07) V-U | mm² | 0.5 …6.0 | | |
| "f" flexible H05(07) V-K | mm² | 0.5 …4.0 | | |
| "f" with ferrule to DIN 46228/1 | mm² | 0.5 …2.5 | | |
| … with plastic collar to DIN 46228/4 | mm² | 0.5 …2.5 | | |
| Gauge to EN 60999 | mm (size) | 3.6 x 3.1 (A4) | | |
| **VDE 0110 1.89 rated data** | | | | |
| Rated cross-section to EN 60999 | mm² | 4.0 | | |
| Rated current 3) | A | 32 | | |
| **Overvoltage category / Pollution severity** | | **III/3** | **III/2** | **II/2** |
| Rated voltage | V | 630 | 1000 | 1000 |
| Impulse voltage | kV | 8.0 | 8.0 | 6.0 |
| **UL rated data** | | | | |
| Rated voltage, industrial | V~ | 300 | | |
| Rated current | A | 30 | | |
| AWG conductor (field wiring) | | 26 …10 | | |
| **CSA rated data** | | | | |
| Rated voltage, industrial | V~ | 300 | | |
| Rated current | A | 10 | | |
| AWG conductor (field wiring) | | 26 …10 | | |

**Application notes**

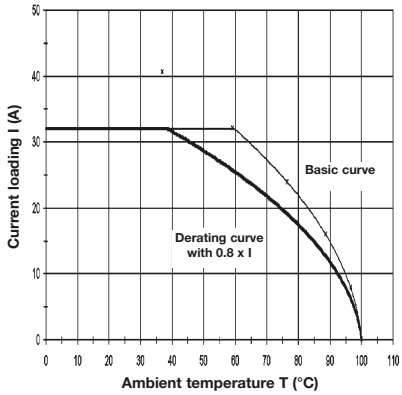
1) additional colours on request

3) referred to 20°C ambient temperature, rated cross-section and number of poles

Ordering data: page 33




LL 9.5/90/24 poles with
Conductor H07V-K4.0 mm²




LL 9.5/90/24 poles with
Conductor H07V-K4.0 mm²

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

| Materials | | TOP 4GS/6.35 | TOP 4GS/7.62 |
|---|---|---|---|
| Insulation material | | PA 66 | PA 66 |
| Colour 1) | | orange, black | orange, black |
| Temperature range | °C | -20… +100 | -20… +100 |
| Flammability class. | UL94 | V-2 | V-2 |
| Contact base material | | CuSn | CuSn |
| Contact plating | | tin-plated | tin-plated |
| **System characteristic values** | | | |
| Pitch | mm | 6.35 | 7.62 |
| Connection method | | TOP connection | TOP connection |
| Solder pin length | mm | 3.5 | 3.5 |
| PCB hole diamter | Ømm | $1.3^{+0.1}$ | $1.3^{+0.1}$ |
| Insulation stripping length | mm | 13.0 | 13.0 |
| Clamping screw | M | 3 | 3 |
| Insulation resistance | MΩ | ≥ $10^3$ | ≥ $10^3$ |
| Through resistance | mΩ | ≤ 1.4 | ≤ 1.4 |
| Torque | Nm | 0.5 …0.6 | 0.5 …0.6 |
| **Conductor size** | | | |
| Clamping range | mm² | 0.13… 6.0 | 0.13… 6.0 |
| "e" solid H05(07) V-U | mm² | 0.5… 6.0 | 0.5… 6.0 |
| "f" flexible H05(07) V-K | mm² | 0.5… 4.0 | 0.5… 4.0 |
| "f" with ferrule to DIN 46228/1 | mm² | 0.5… 4.0 | 0.5… 4.0 |
| … with plastic collar to DIN 46228/4 | mm² | 0.5… 4.0 | 0.5… 4.0 |
| Gauge to EN 60999 | mm (size) | 2.8 x 2.4 (A3) | 2.8 x 2.4 (A3) |
| **VDE 0110 1.89 rated data** | | | |
| Rated cross-section to EN 60999 | mm² | 6.0 | 6.0 |
| Rated current 3) | A | 36 | 36 |
| **Overvoltage category / Pollution severity** | | III/3 III/2 II/2 | III/3 III/2 II/2 |
| Rated voltage | V | 320 320 630 | 500 630 1000 |
| Impulse voltage | kV | 4.0 4.0 4.0 | 6.0 6.0 6.0 |
| **UL rated data** | | | |
| Rated voltage, industrial | V~ | 300 | 300 |
| Rated current | A | 30 | 30 |
| AWG conductor (field wiring) | | 22… 10 | 22… 10 |
| **CSA rated data** | | | |
| Rated voltage, industrial | V~ | 300 | 300 |
| Rated current | A | 30 | 30 |
| AWG conductor (field wiring) | | 22… 10 | 22… 10 |

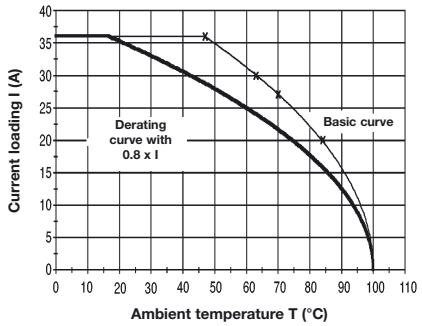
**Application notes**

1) additional colours on request

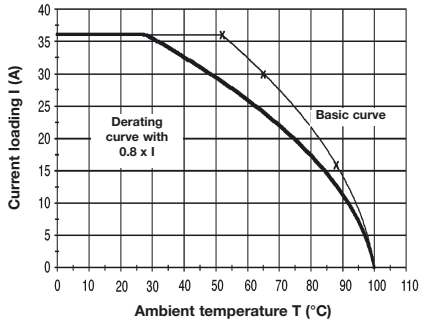
3) referred to 20°C ambient temperature, rated cross-section and number of poles

Ordering data: page 33

Ordering data: page 34




TOP4GS/6/6.35 with Conductor H07V-K4.0 mm²




TOP4GS/6/7.62 with Conductor H07V-K4.0 mm²

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

| Materials | | GSE 10 | LU 10.16/4 pins per pole | LU 10.16/2 pins per pole |
|---|---|---|---|---|
| Insulation material | | PA 66 | PA 66/6 (Wemid) | PA 66/6 (Wemid) |
| Colour 1) | | grey | grey | grey |
| Temperature range | °C | -20… +100 | -20… +120 | -20… +120 |
| Flammability class. | UL94 | V-2 | V-0 | V-0 |
| Contact base material | | E-Cu | E-Cu | E-Cu |
| Contact plating | | tin-plated | tin-plated | tin-plated |
| **System characteristic values** | | | | |
| Pitch | mm | 10.16 | 10.16 | 10.16 |
| Connection method | | screw clamp connection | screw clamp connection | screw clamp connection |
| Solder pin length | mm | 4.5 | 3.2/4.5 | 3.2/4.5 |
| PCB hole diamter | Ømm | $1.6^{+0.1}$ | $1.6^{+0.1}$ | $1.6^{+0.1}$ |
| Insulation stripping length | mm | 10.0 | 12.0 | 12.0 |
| Clamping screw | M | 4 | 4 | 4 |
| Insulation resistance | MΩ | ≥ $10^3$ | ≥ $10^3$ | ≥ $10^3$ |
| Through resistance | mΩ | ≤ 0.2 | ≤ 0.5 | ≤ 0.5 |
| Torque | Nm | 1.2… 1.5 | 1.2… 1.5 | 1.2… 1.5 |
| **Conductor size** | | | | |
| Clamping range | $mm^2$ | 0.33… 10.0 | 0.33… 16.0 | 0.33… 16.0 |
| "e" solid H05(07) V-U | $mm^2$ | 0.5… 10.0 | 0.5… 10.0 | 0.5… 10.0 |
| multi-wire H07 V-R | $mm^2$ | 6.0… 10.0 | 6.0… 16.0 | 6.0… 16.0 |
| "f" flexible H05(07) V-K | $mm^2$ | 0.5… 10.0 | 0.5… 16.0 | 0.5… 16.0 |
| "f" with ferrule to DIN 46228/1 | $mm^2$ | 0.75… 4.0 | 2.5… 10.0 | 2.5… 10.0 |
| … with plastic collar to DIN 46228/4 | $mm^2$ | 0.75… 4.0 | 2.5… 10.0 | 2.5… 10.0 |
| Gauge to EN 60999 | mm (size) | 4.3 x 4.0 (A5) | Ø 5.3 (B6) | Ø 5.3 (B6) |
| **VDE 0110 1.89 rated data** | | | | |
| Rated cross-section to EN 60999 | $mm^2$ | 10.0 | 16.0 | 16.0 |
| Rated current 3) | A | 59 | 57 | 57 |
| **Overvoltage category / Pollution severity** | | **III/3 III/2 II/2** | **III/3 III/2 II/2** | **III/3 III/2 II/2** |
| Rated voltage | V | 400 690 1000 | 250 250 500 | 630 800 1000 |
| Impulse voltage | kV | 6.0 6.0 6.0 | 4.0 4.0 4.0 | 8.0 8.0 6.0 |
| **UL rated data** | | | | |
| Rated voltage, industrial | V~ | 300 | 300 | 300 |
| Rated current | A | 40 | 65 | 65 |
| AWG conductor (field wiring) | | 22… 8 | 22… 6 | 22… 6 |
| **CSA rated data** | | | | |
| Rated voltage, industrial | V~ | 300 | 300 | 300 |
| Rated current | A | 40 | 65 | 60 |
| AWG conductor (field wiring) | | 22… 8 | 22… 6 | 22… 6 |
| **Application notes** | | | | |
| 1) additional colours on request | | Ordering data: page 35 | Ordering data: page 35 | Ordering data: page 35 |
| 3) referred to 20°C ambient temperature, rated cross-section and number of poles | | | | |

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

| Materials | | LX 15.00 |
|---|---|---|
| Insulation material | | PA 66/6 (Wemid) |
| Colour 1) | | grey |
| Temperature range | °C | -25… +120 |
| Flammability class. | UL94 | V-0 |
| Glow-wire test | °C/sec. | 850 / 30 |
| Contact base material | | E-Cu |
| Contact plating | | tin-plated |

| System characteristic values | | |
|---|---|---|
| Pitch | mm | 15.00 |
| Connection method | | screw clamp connection |
| Solder pin length | mm | 4.5 |
| PCB hole diamter | Ømm | $1.6^{+0.1}$ |
| Insulation stripping length | mm | 16.0 |
| Clamping screw | M | 5 |
| Insulation resistance | MΩ | ≥ $10^2$ |
| Through resistance | mΩ | ≤ 0.3 |
| Torque | Nm | 2.0… 4.0 |

| Conductor size | | | |
|---|---|---|---|
| Clamping range | | mm² | 1.30… 25.0 |
| "e" solid | H05(07) V-U | mm² | 1.5… 10.0 |
| multi-wire | H07 V-R | mm² | 6.0… 25.0 |
| "f" flexible | H05(07) V-K | mm² | 1.5… 25.0 |
| "f" with ferrule to DIN 46228/1 | | mm² | 1.5… 16.0 |
| … with plastic collar to DIN 46228/4 | | mm² | 1.5… 16.0 |
| Gauge to EN 60999 | | mm (size) | Ø 6.9 |

| VDE 0110 1.89 rated data | | | | | |
|---|---|---|---|---|---|
| Rated cross-section to EN 60999 | | mm² | 25.0 | | |
| Rated current 3) | | A | 101 | | |
| **Overvoltage category / Pollution severity** | | | **III/3** | **III/2** | **II/2** |
| Rated voltage | | V | 800 | 1000 | 1000 |
| Impulse voltage | | kV | 8.0 | 8.0 | 6.0 |
| Test voltage | | kV~ | 5.0 | | |

| UL rated data | | |
|---|---|---|
| Rated voltage, industrial | V~ | 600 |
| Rated current | A | 85 |
| AWG conductor (field wiring) | | 16… 4 |

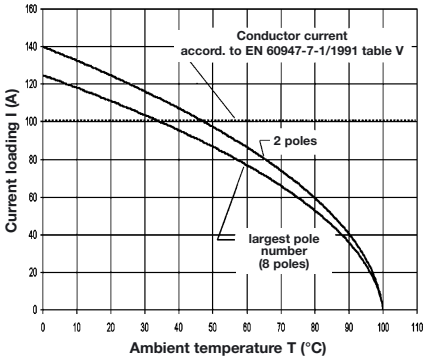
| CSA rated data | | |
|---|---|---|
| Rated voltage, industrial | V~ | 600 |
| Rated current | A | 85 |
| AWG conductor (field wiring) | | 16… 4 |

**Application notes**

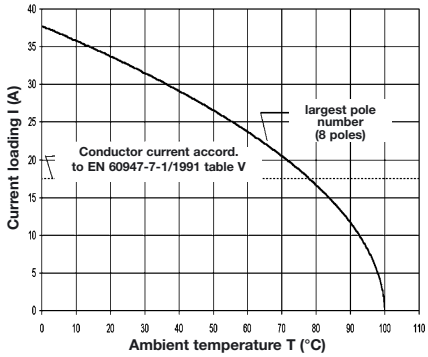
1) additional colours on request

3) referred to 20°C ambient temperature, rated cross-section and number of poles

Ordering data: page 36




LX 15.00 / 2 and 8 poles
Conductor H07V-K25.0




LX 15.00/8 poles
Conductor H07V-K1.5

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.