

# OMNIMATE® Power PCB terminals

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### Clamping yoke screw connection

Explanation	J.2
Quick selection	J.12
Product selection	J.16

### PUSH IN-spring connection

Explanation	J.6
Quick selection	J.14
Product selection	J.26

# OMNIMATE® Power – LL 6.35 power terminal

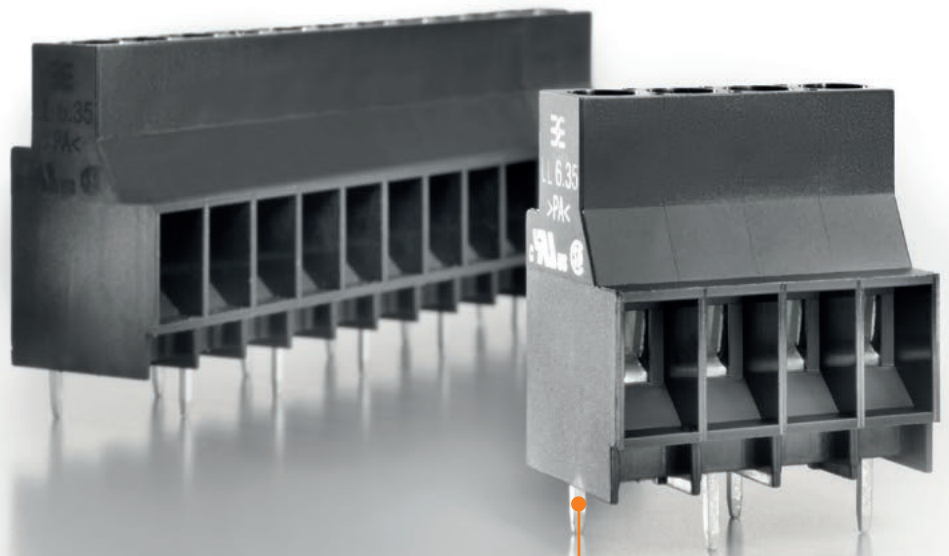
## Unrestricted use up to 600 V to UL 1059 approval in 6.35 mm pitch

**Your device connections increasingly require international approval to UL 1059 to 600 V. We offer you the matching power terminal in 6.35 mm pitch. Let's connect.**

International UL certification for 600 V is an important factor for many power electronics applications. The wiring must also be safe and maintenance-free and meet the high insulator requirements.

Our LL 6.35 power terminal meets all the certification criteria unrestricted. Not only is it especially safe, but it has an extremely compact 6.35 mm pitch design.

You will receive a maintenance-free solution with proven clamping yoke screw technology for conductors up to 6 mm<sup>2</sup>. Ideal for device connections in drive technology, power supply, solar inverter and line filter applications.

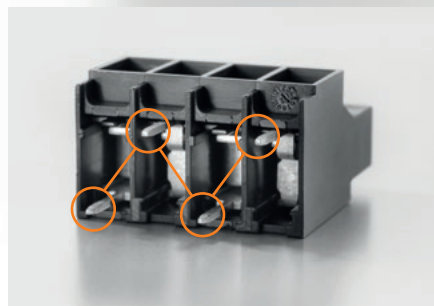


600 V



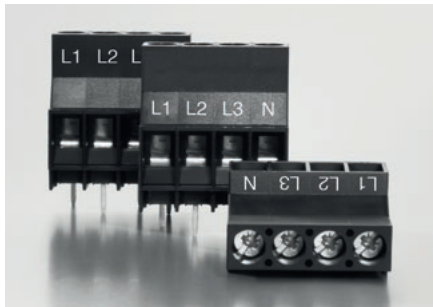
### Clever design

The staggered solder pins are a speciality of the LL 6.35. These pins provide the required clearance and creepage distances for unrestricted 600 V certification to UL 1059.



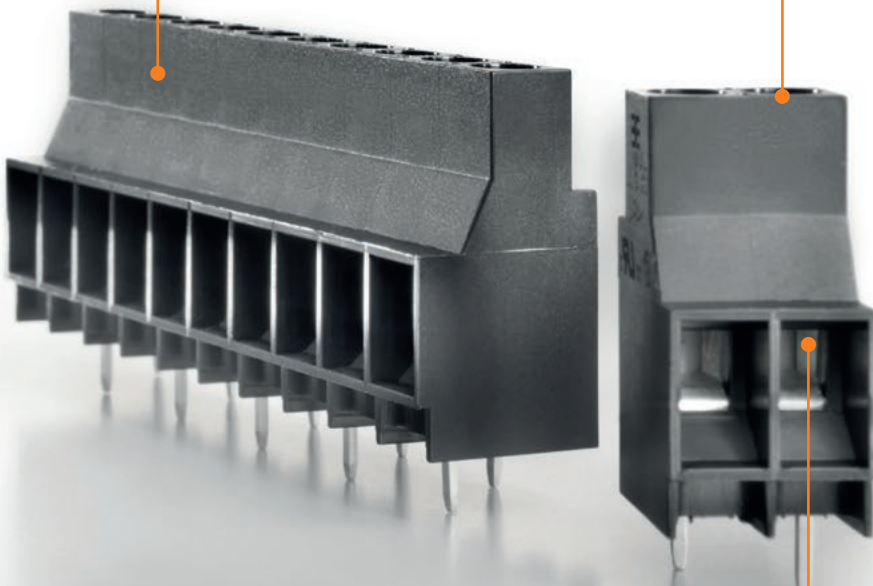
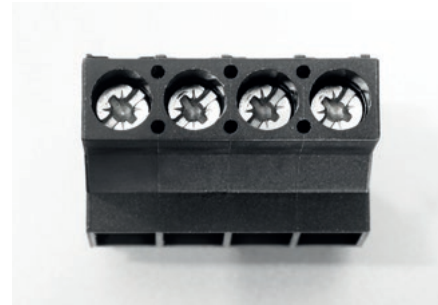
**Clear marking**

The design of the LL 6.35 allows individual direct labelling on three possible levels. This allows a direct assignment and avoids installation errors.



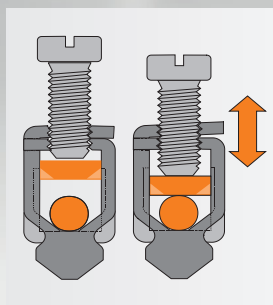
**Safe operation**

The world-wide compatible screw head allows an interference fit bolted joint that can be operated using all standard tools and power tools.



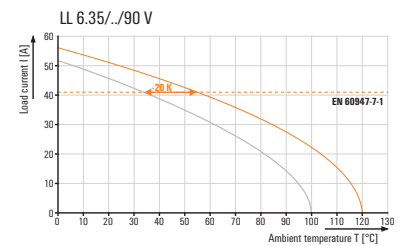
**Maintenance-free terminal point**

A vibration resistant and maintenance-free connection is made using our proven WIRE GUARD and WIRE READY clamping yoke screw connection.



**High-quality insulation**

The insulating material WEMID satisfies the highest environmental standards, is creep-current resistant to CTI 600 and fire resistant to UL 94-V0. With a continuous operating temperature of 120 °C it exceeds the standard value of PA (100 °C) by 20 K.



**Safe fire resistance**

The use of high-quality plastics allows compliance with the increased requirements for fire safety in accordance with the household appliance standard IEC 60335-1.



**Can be ordered online**

Order your sample world-wide directly from the OMNIMATE® online catalogue at [www.sample-service.com](http://www.sample-service.com)



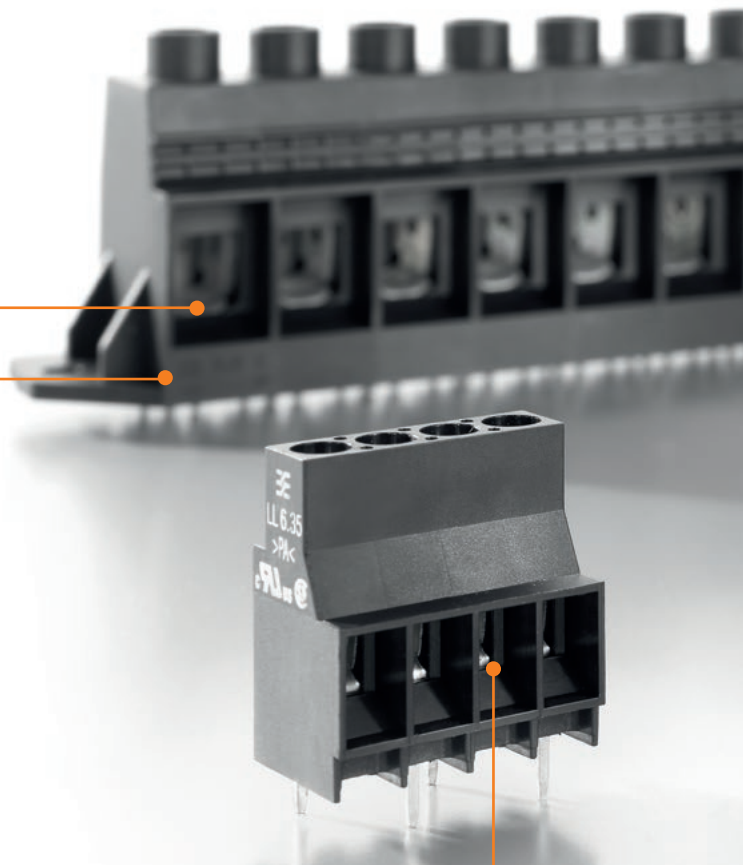
# OMNIMATE® Power PCB terminals

## High-power connections up to 150 A / 1,000 V

The OMNIMATE® Power PCB terminals – ranging from the LUP in 10.16-mm pitch to the LXXX in 15.00-mm pitch – is approved for unlimited international use in applications according to UL 1059 (600 V) and IEC (1,000 V). Weidmüller’s self-securing steel clamping yoke is 100 % maintenance free. It provides vibration-proof connections to the PCB for wires up to 50 mm<sup>2</sup>.

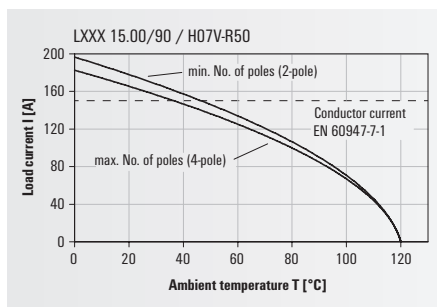
### Unrivalled clamping

With an unmatched clamping range, the LXXX 15.0 offers a safe and strong wire connection for cross-sections up to 50 mm<sup>2</sup> / AWG1 and 150 A to the circuit board.



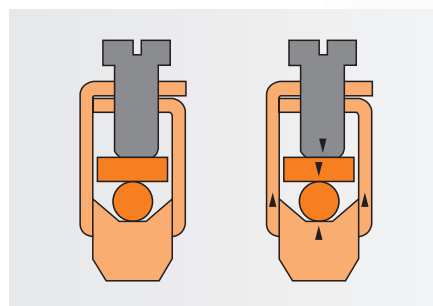
### Power reserve for safety

The high-performance WEMID insulation material helps increase the availability of the system. With an RTI (relative temperature index) of 120 °C, the OMNIMATE® Power PCB terminals exceed the upper continuous-use temperature recommended by the Standard PA (100 °C) by 20 °C. Thus there are more power reserves and improved safety in event of temperature fluctuations or overloads.



### Screw connection system

The automatically counter-operating Weidmüller steel clamping yoke uses force generated by tightening the screw to open the upper thread. Settling of the connected wires and vibrations are compensated for and this guarantees a maintenance free operation. Subsequent tightening and maintenance of the screw is not needed.



**Standard-compliant integration**

Weidmüller terminals meet the extended creepage and clearance distances according to UL and finger safety in accordance with the IEC 61800-5-1 device standard.



**Wire protection**

The integrated "Wire Guard" mechanism on the OMNIMATE® Power PCB terminals prevents wires from being inserted improperly and prevents a malfunctioning contact.



**Integrated test point**

The required maintenance and measurements can be carried out in a safe, reliable and convenient manner.



**Labelling and assigning**

Terminals are available with custom direct printing, versatile Dekafix labelling, affordable adhesive strips and colour coding.



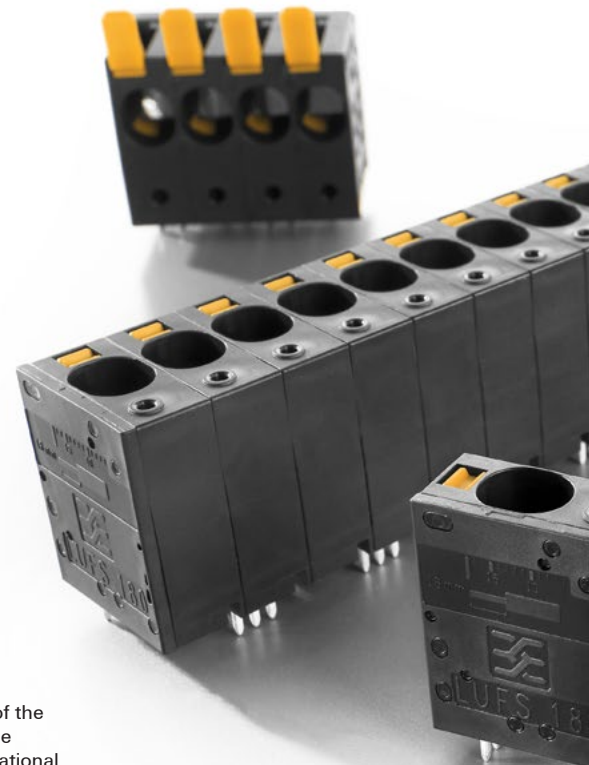
## Reliable and fast connection of power electronics devices

### LUF and LUFS series PCB terminal with PUSH IN connection

Maximum performance with increased economic efficiency – these are the current trends in the field of power electronics. In order to achieve this goal, devices must combine excellent functionality with simple operation. This will have an impact on the device connectivity systems, which need to be fault-free, safe and quick in their usage.

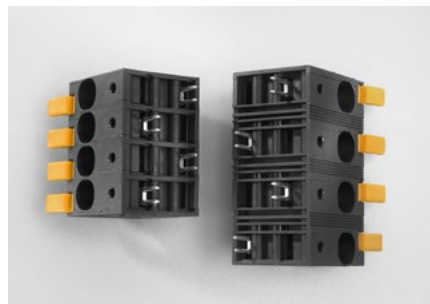
The LUF PCB terminal from the OMNIMATE® Power product range features proven PUSH IN connection technology. This has allowed us to carry out tool-free wiring for wire cross-sections up to 16 mm<sup>2</sup> and to meet requirements in accordance with UL 1059 for 600 V in the 10.00 mm pitch and with 1,000 V in the 15.00 mm pitch.

LUF(S) provides high levels of contact reliability based on the Weidmüller Connection Safety Concept. The terminal contact shuts automatically to prevent malfunction. LUF has a tool-free wiring system, and LUFS can be actuated with a simple screwdriver to connect cross sections up to 16 mm<sup>2</sup>. The PUSH IN connection system also allows a quick, convenient and therefore efficient wiring.



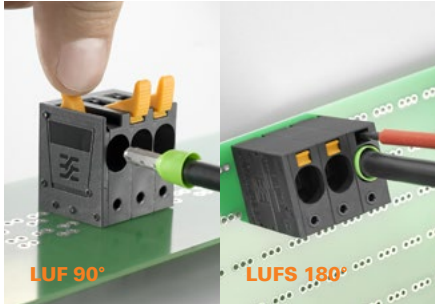
#### Compliant with UL 1059

As a result of the offset arrangement of the solder pins, the LUF 15.00 and also the LUFS 15.00 allows unrestricted international use in applications in accordance with UL 1059 up to 1,000 V.



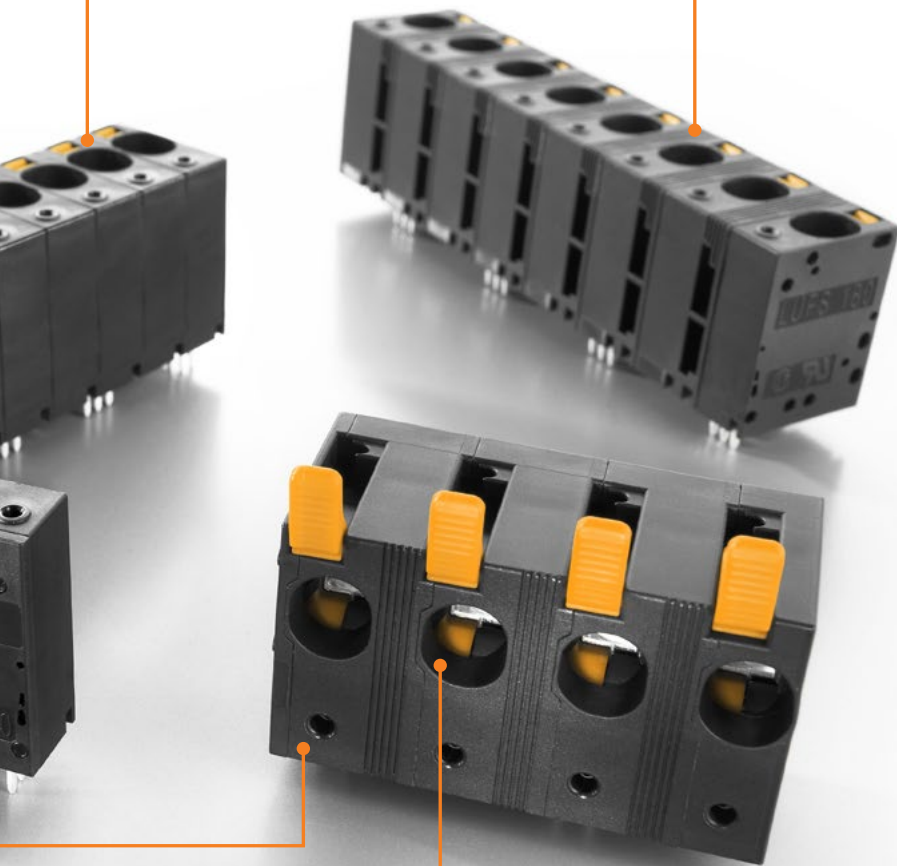
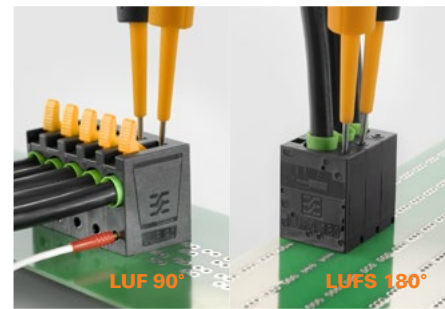
**Comfortable actuation**

An ergonomic lever makes it easy to open the clamp and release the wire. The contact point for LUF can be opened comfortably by hand, and LUFS can be opened using a standard screwdriver.



**Convenient access to test points**

In order to provide maximum flexibility, LUF 90° offers two test points – one beside the cable entry and another beside the actuating lever side. LUFS 180° features one test point located beside the cable entry.



**Your special advantages:**

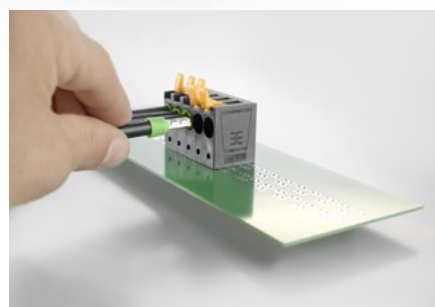
**Perfect connection thanks to high levels of contact reliability**

This contact system is automatically closed after being opened. This intelligent Connection Safety Concept helps to ensure that the wire is always connected safely.



**PUSH IN connection up to 16 mm<sup>2</sup>**

The PUSH IN connection system allows for wires to be connected to the PCB board without the need for tools. Solid wires or wires with ferrules can be directly connected. Done!



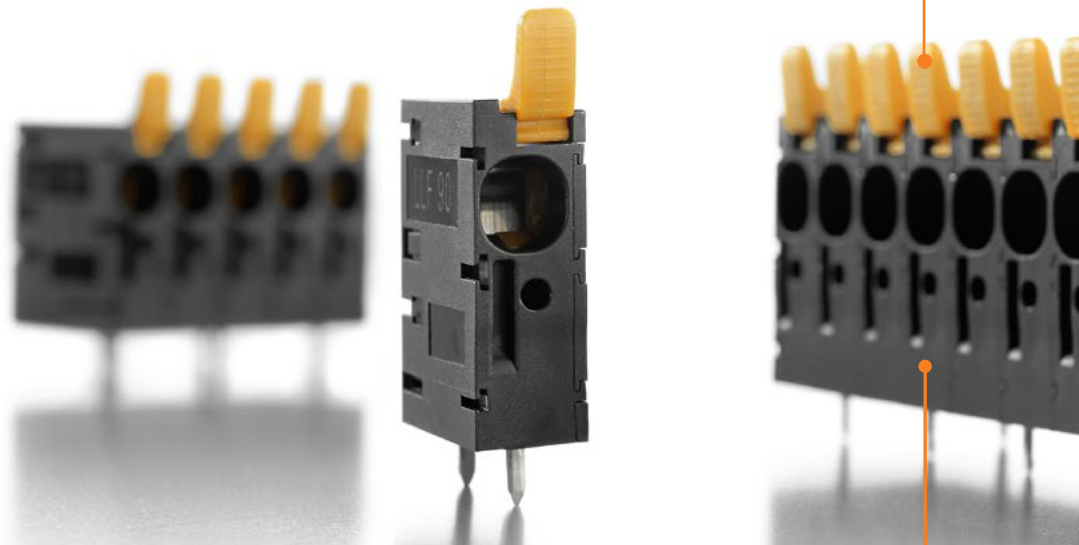
The LUF and LUFS are not only proving to be impressive thanks to their good performance and easy operability – ensured by the unusually high level of contact reliability – but also meets all the challenges that arise in power electronic applications.

## Reliable and fast connection in power electronic applications LLF 7.50 PCB terminal with PUSH IN connection system

Modern systems and technology – for example, photovoltaic inverters – underlie continuous development and optimisation. Technological advances often depend on powerful, flexible and robust connectivity systems to ensure secure and reliable operation.

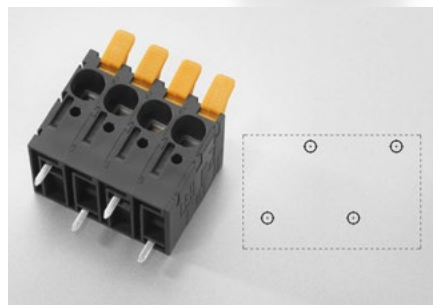
The LLF PCB terminal from the OMNIMATE® Power product range features proven PUSH IN connection technology. This has allowed us to carry out tool-free wiring for wire cross-sections up to 6 mm<sup>2</sup> and to meet requirements in accordance with UL 1059 for 600 V in pitch 7.5 mm.

Just like the PCB terminals LUF and LUFS, LLF uses the Weidmüller “Connection Safety Concept”, which has a PUSH IN connection for quick and safe mounting. The actuation lever allows for quick, simple, and safe wiring with excellent performance.



### Compliant with UL 1059 up to 600 V

As a result of the offset arrangement of the solder pins, the LLF allows unrestricted international use in applications in accordance with UL 1059 up to 600 V.



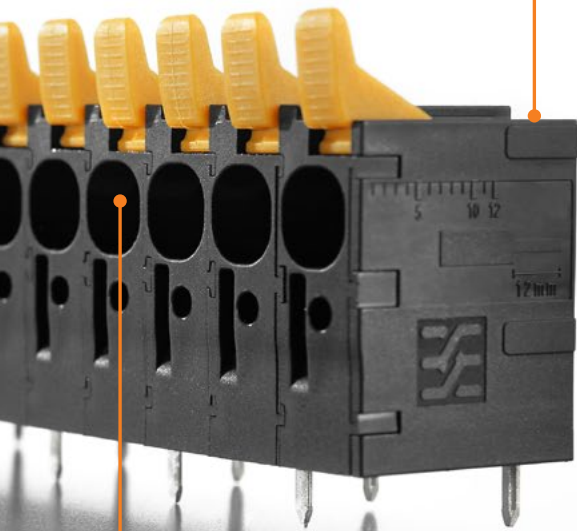
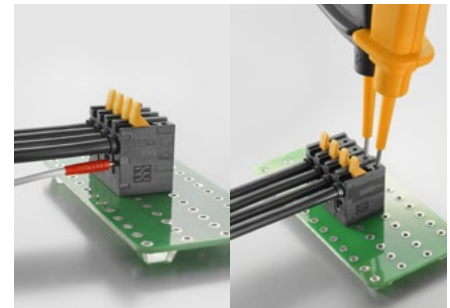
**High level of reliability**

LLF provides high levels of contact reliability based on the "Connection Safety Concept". The terminal contact closes automatically to prevent malfunction.



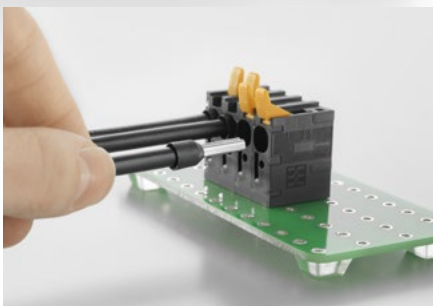
**Convenient access to test points**

Two test points with LLF, one located beside the cable entry and another beside the actuating lever, provide a great flexibility during testing.



**Tool-free wiring system**

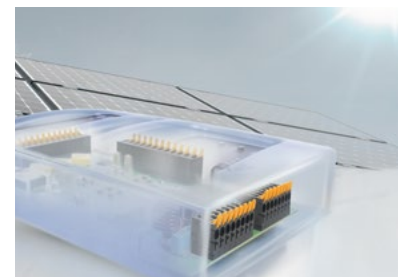
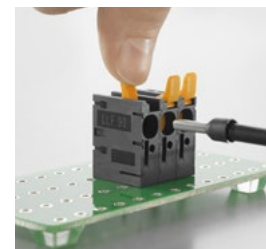
The PUSH IN connection and the simple and safe operation of the actuator lever ensure quick, convenient and efficient wiring of cross sections up to 6 mm<sup>2</sup>.



**Your special advantages:**

**Comfortable actuation**

The ergonomically designed lever allows an operator to easily actuate and open clamp in order to release the cable. The contact point get readily opened by hand without the need for any physical exertion.



LLF is capable of handling challenging applications that not only require high current and voltage but also demand a secure connectivity. LLF maximises connection safety and reliability within a compact space.



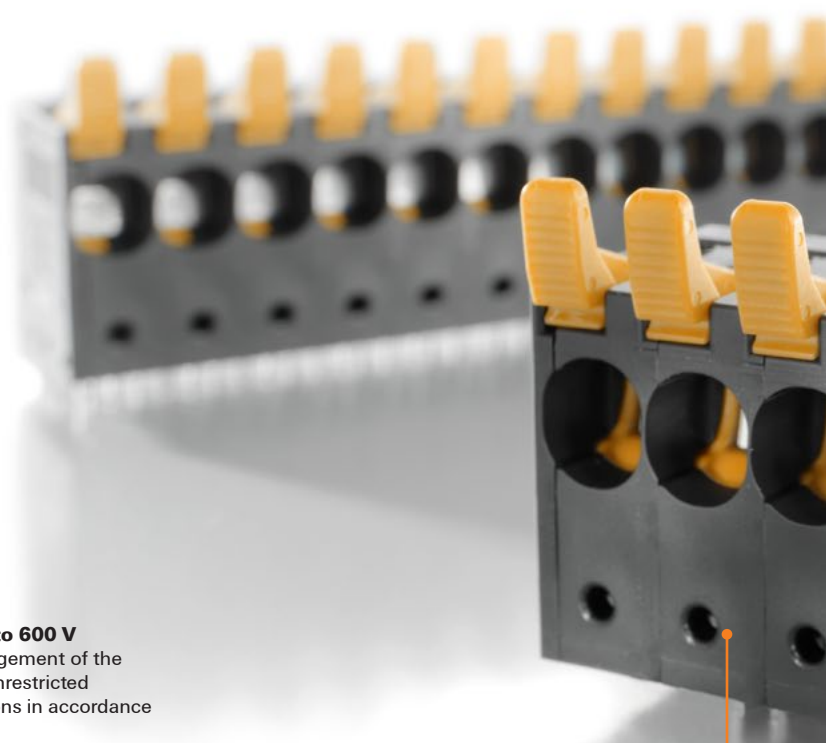
# Safe and efficient connection of power electronics devices

## New: LUF 10.00 with PUSH IN in accordance with UL 1059 for 600 V

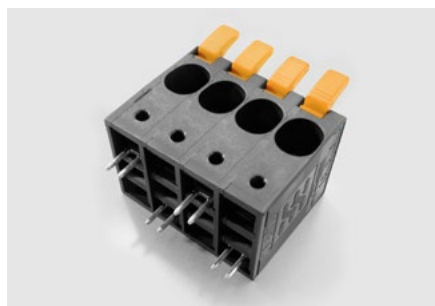
Maximum performance with increased economic efficiency – these are the current trends in the field of power electronics. In order to achieve this goal, devices must combine excellent functionality with simple operation. This will have impact on the device connectivity systems, which needs to be fault-free, safe and quick in his usage.

The LUF PCB terminal from the OMNIMATE® Power product range features tried-and-tested PUSH IN connection technology. This has allowed us to realise tool-free wiring for wire cross-sections up to 16 mm<sup>2</sup> and to meet requirements in accordance with UL 1059 for 600 V in the 10.00 mm pitch.

In addition to the particularly simple handling of the actuator lever, the LUF also provides high levels of contact reliability that is based on the “Connection Safety Concept” from Weidmüller. The quick and safe wire connection with PUSH IN connection system as well as the simple and safety operation of the actuator lever for opening the contact allow a quick, convenient and therefore economical wiring.

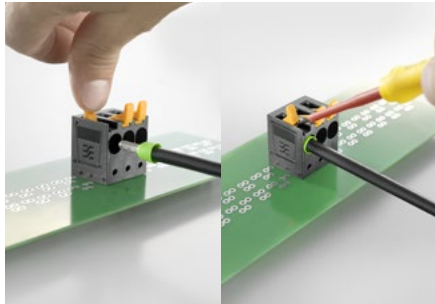


**According to UL 1059 up to 600 V**  
As a result of the offset arrangement of the solder pins, the LUF allows unrestricted international use in applications in accordance with UL 1059 up to 600 V.



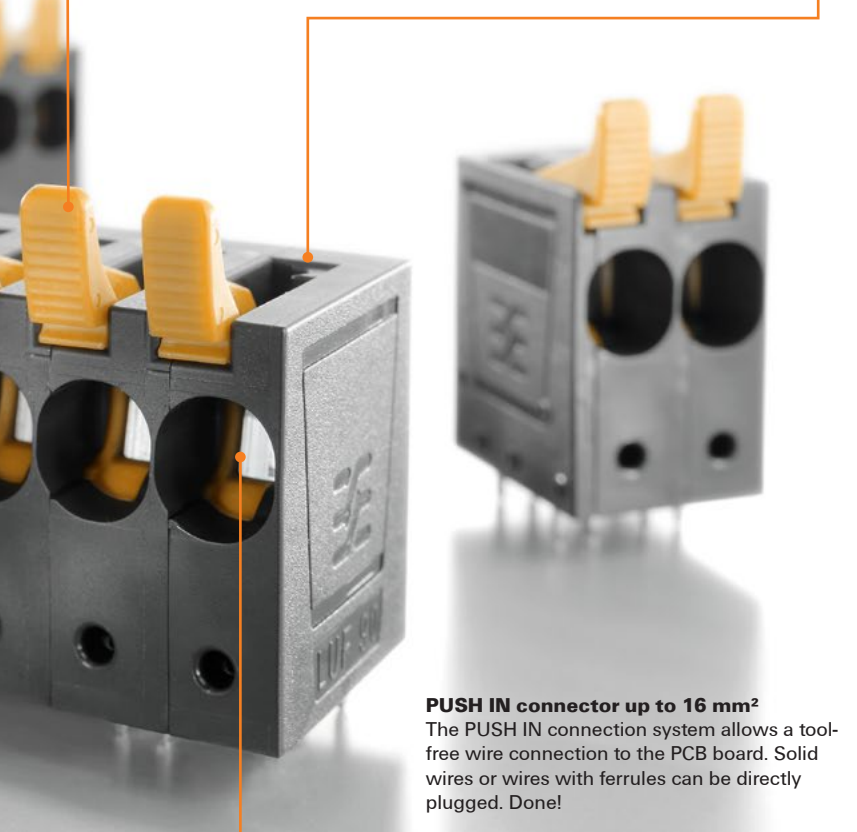
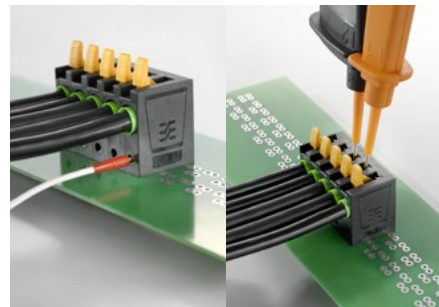
**Easy actuation**

The contact point can be opened without any physical exertion and without the need of any special tools. It can be done by hand or using a simple screwdriver.



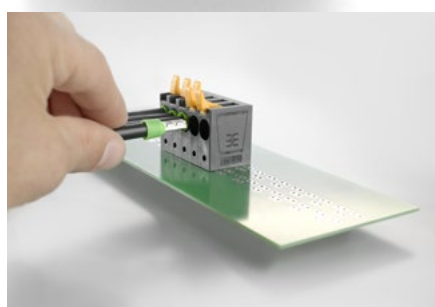
**Available for testing at any time**

Easily accessible diagnostic testing points for necessary maintenance and measurements in direction of cable entry or on the actuating lever side allows the using of tester or connector PS2.



**PUSH IN connector up to 16 mm<sup>2</sup>**

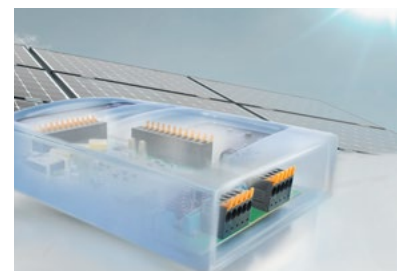
The PUSH IN connection system allows a tool-free wire connection to the PCB board. Solid wires or wires with ferrules can be directly plugged. Done!



**Your special advantages:**

Perfect connection thanks to high levels of contact reliability

This contact system is getting automatically closed after it was opened. This intelligent "Connection Safety Concept" helps ensure that the wire is always safely connected.

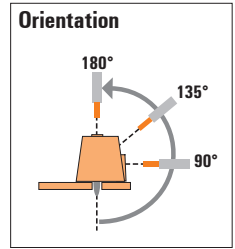


The LUF is not only impressive concerning performance and easy operability – due to the particularly high level of contact reliability, this PCB terminal meets all the challenges of power-electronics applications.



<http://www.OMNIMATE.net>

- = 300 V (UL) / 1,000 V (IEC)
- = 600 V (UL) / 1,000 V (IEC)



## PCB terminals

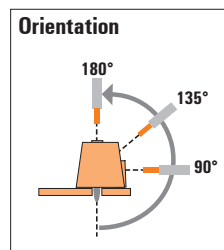
Type of connection	Clamping range	Type	IEC / UL	90°	135°	180°	
Screw Screw Clamping yoke	≤ 6 mm <sup>2</sup>		LL 6.35/./90 V*	IEC: 1,000 V/32 A/0.18 - 6 mm <sup>2</sup> UL: 600 V/30 A/AWG 26 - 10	●		
	≤ 16 mm <sup>2</sup>		LU 10.16	IEC: 1,000 V/76 A/0.5 - 16 mm <sup>2</sup> UL: 300 V/65 A/AWG 26 - 6	●		
			LUP 10.16	IEC: 1,000 V/76 A/0.5 - 16 mm <sup>2</sup> UL: 300 V/58 A/AWG 26 - 6	●		
			LUP 10.16/./90 V*	IEC: 1,000 V/76 A/0.5 - 16 mm <sup>2</sup> UL: 600 V/51 A/AWG 22 - 6	●		
			LUP 12.70	IEC: 1,000 V/76 A/0.5 - 16 mm <sup>2</sup> UL: 600 V/58 A/AWG 26 - 6	●		
			LX 15.00	IEC: 1,000 V/101 A/0.5 - 25 mm <sup>2</sup> UL: 600 V/85 A/AWG 16 - 4	●		
	≤ 25 mm <sup>2</sup>		LXB 15.00	IEC: 1,000 V/101 A/1.5 - 25 mm <sup>2</sup> UL: 600 V/85 A/AWG 16 - 4	●		
		≤ 50 mm <sup>2</sup>		LXXX 15.00	IEC: 1,000 V/150 A/0.5 - 50 mm <sup>2</sup> UL: 600 V/127 A/AWG 20 - 1	●	
			LXXX 15.00/./90F	IEC: 1,000 V/150 A/0.5 - 50 mm <sup>2</sup> UL: 600 V/127 A/AWG 20 - 1	●		

\* With offset solder pins






<http://www.OMNIMATE.net>

300 V  
 600 V  
 1.000 V

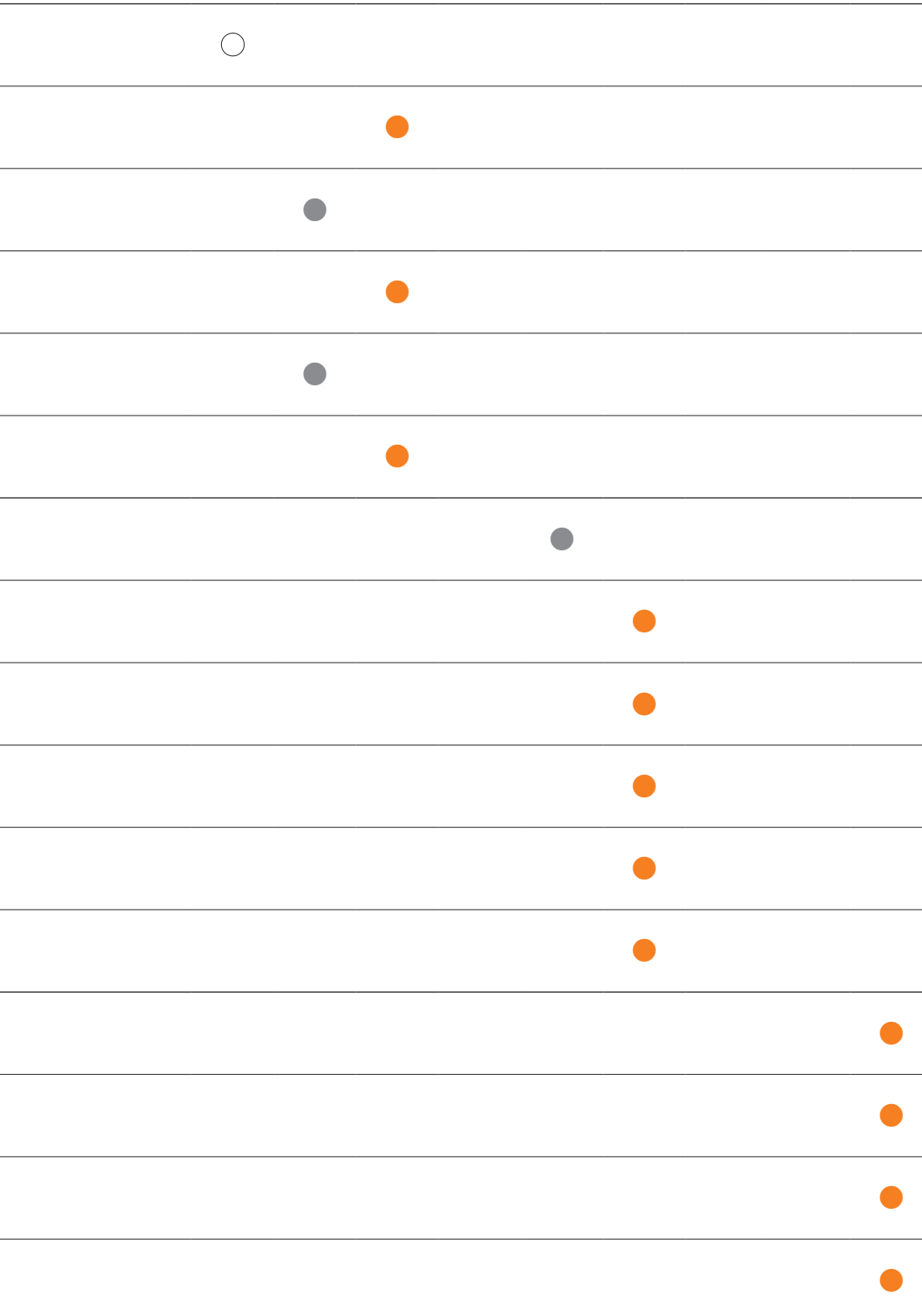


### PCB terminals

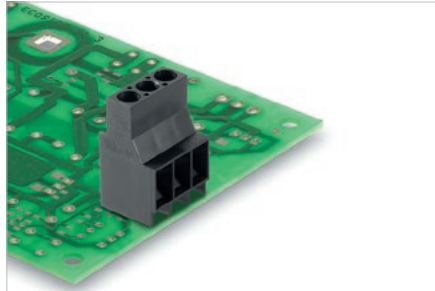
Type of connection	Clamping range	Type	IEC / UL	90°	135°	180°
PUSH IN	≤ 6 mm <sup>2</sup>	 <b>LLF 7.50/90</b>	IEC: 600 V / 41 A / 0.5 - 6 mm <sup>2</sup> UL: 300 V / 35 A / AWG 24 - AWG 8	●		
		 <b>LLF 7.50/90V*</b>	IEC: 1000 V / 41 A / 0.5 - 6 mm <sup>2</sup> UL: 600 V / 35 A / AWG 24 - AWG 8	●		
		 <b>LLFS 7.50/180</b>	IEC: 1000 V / 41 A / 0.5 - 6 mm <sup>2</sup> UL: 300 V / 37 A / AWG 24 - AWG 8			●
		 <b>LLFS 7.50/180V*</b>	IEC: 1000 V / 41 A / 0.5 - 6 mm <sup>2</sup> UL: 600 V / 37 A / AWG 24 - AWG 8			●
		 <b>LLFS 7.50/90</b>	IEC: 1000 V / 41 A / 0.5 - 6 mm <sup>2</sup> UL: 300 V / 37 A / AWG 24 - AWG 8	●		
		 <b>LLFS 7.50/90V*</b>	IEC: 1000 V / 41 A / 0.5 - 6 mm <sup>2</sup> UL: 600 V / 37 A / AWG 24 - AWG 8	●		
PUSH IN	≤ 16 mm <sup>2</sup>	 <b>LUF 10.00/90</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 300 V / 61 A / AWG 18 - AWG 6	●		
		 <b>LUF 10.00/90V*</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 58 A / AWG 18 - AWG 6	●		
		 <b>LUFS 10.00/180</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 61 A / AWG 18 - AWG 6			●
		 <b>LUFS 10.00/180V*</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 58 A / AWG 18 - AWG 6			●
		 <b>LUFS 10.00/90</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 61 A / AWG 18 - AWG 6"	●		
		 <b>LUFS 10.00/90V*</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 58 A / AWG 18 - AWG 6	●		
PUSH IN	≤ 16 mm <sup>2</sup>	 <b>LUF 15.00/90</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 66 A / AWG 20 - AWG 4	●		
		 <b>LUF 15.00/90V*</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 66 A / AWG 20 - AWG 4	●		
		 <b>LUF 15.00/180</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 66 A / AWG 20 - AWG 4			●
		 <b>LUF 15.00/180V*</b>	IEC: 1000 V / 76 A / 0.5 - 16 mm <sup>2</sup> UL: 600 V / 66 A / AWG 20 - AWG 4			●

\* mit versetzten Lötstiften

Pitch, in mm	7,50			10,00			15,00		
Rated voltage IEC	600 V	1000 V	1000 V	600 V	1000 V	1000 V	600 V	1000 V	1000 V
Rated voltage UL	300 V	300 V	600 V	300 V	300 V	600 V	300 V	300 V	600 V



LL 6.35



High-power PCB terminal with proven clamping yoke screw connection, 6.35 mm pitch, for conductor cross-sections up to 6 mm<sup>2</sup>.

- UL 600 V approval for unlimited international use in devices.
- Increased derating reserves due to the use of WEMID insulating material.
- Conductor outlet direction of 90°
- Block construction for versions up to 12 poles

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.18...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.18...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.22...4	
Flexible with ferrule	mm <sup>2</sup>	0.5...4	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...2.5	
Stripping length	mm	8	
Screwdriver blade	mm	0.8 x 4.0, PZ 1	
According to norm		DIN 5264	
Tightening torque range	Nm	0.5...0.6	
<b>Rated current, max.</b>	<b>A</b>	<b>32</b>	<b>32</b>
At ambient temperature	20°C	40°C	
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>30</b>	<b>30 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>26-10</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	600	600 600
Rated current	A	30	30 5
AWG conductor	AWG	26-10	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 0.6	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 32 A / 0.18 - 6 mm<sup>2</sup>  
 UL: 600 V / 30 A / AWG 26 - 10



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

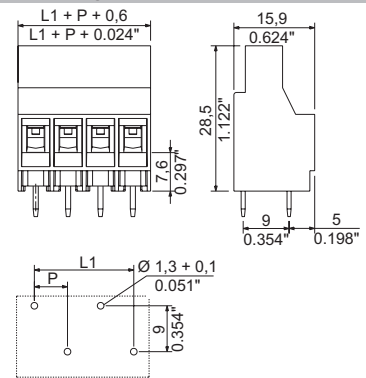
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- It is necessary to hold the insulating body of the one or two pole terminal when tightening the screw

LL 6.35



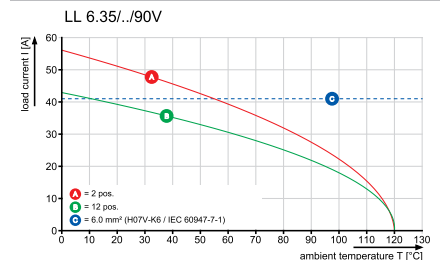
Dimensioned drawing



Ordering data

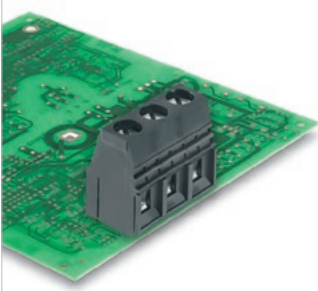
Solder pin length		5 mm		
Colour		Black		
Pitch		6.35 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	6.35	0.250	50	1356830000
3	12.70	0.500	50	1356840000
4	19.05	0.750	50	1356850000
5	25.40	1.000	50	1356870000
6	31.75	1.250	50	1356880000
7	38.10	1.500	50	1356890000
8	44.45	1.750	50	1356900000
9	50.80	2.000	50	1356920000
10	57.15	2.250	50	1356930000
11	63.50	2.500	50	1356940000
12	69.85	2.750	50	1356950000

Representative deratings curve





LU 10.16/./90



High-power PCB Terminal with clamping yoke screw connection, in 10.16 mm pitch for wire cross-sections up to 16 mm<sup>2</sup> (AWG 6).

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction: 90° version.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	0.14...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...10	
Stripping length	mm	12	
Screwdriver blade	mm	1.0 x 5.5	
		According to norm DIN 5264	
Tightening torque range	Nm	1.2...1.5	
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>690</b>	<b>690 1000</b>
Rated impulse voltage	kV	6	6 4
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>

<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>150</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>65</b>	<b>65</b>	<b>5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>26-6</b>		
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C</b>	<b>D</b>
Rated voltage	V	300	150	300
Rated current	A	65	65	10
AWG conductor	AWG	22-6		

<b>General data</b>	
Type of insulation material	Wemid (PA)
UL 94 flammability rating	V-0
Contact base material	E-Cu
Material of contact surface	tinned
Pin dimensions = d	mm 1.2 x 1.2
Solder eyelet Ø = D	mm 1.6
Solder eyelet Ø tolerance	mm + 0,1

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
 UL: 300 V / 65 A / AWG 26 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

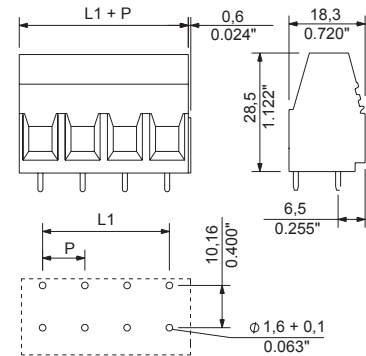
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LU 10.16/./90



Dimensioned drawing



Ordering data

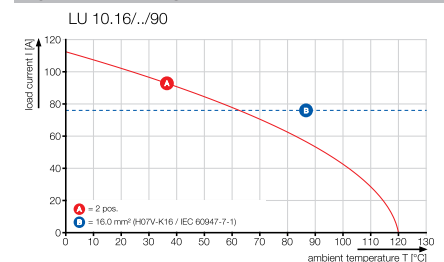
<b>Solder pin length</b>		<b>4.5 mm</b>	
<b>Colour</b>		<b>Black</b>	
<b>Pitch</b>		<b>10.16 mm</b>	
Pol.	L1	(inch)	Qty. Order No.
2	10.16	0.400	20 1934140000
3	20.32	0.800	20 1921450000
4	30.48	1.200	20 1226220000
5	40.64	1.600	20 1226230000
6	50.80	2.000	20 1226240000
7	60.96	2.400	20 1226250000
8	71.12	2.800	20 1226260000
9	81.28	3.200	20 1226270000
10	91.44	3.600	20 1226280000

Accessories

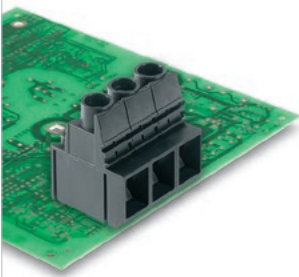
Note: Refer to the Accessories chapter for additional accessories.

<b>Screwdriver</b>		<b>Order No.</b>
	SDS 1.0X5.5X150	9008350000
	SDIS 1.0X5.5X125	9008410000
<b>Crosshead screwdriver</b>		
	SDK PZ2	9008540000
	SDIK PZ2	9008890000
<b>Identification systems</b>		
	DEK 5 NEUTRAL	0473360000
	DEK 5/5 MC NE WS	1609801044

Representative deratings curve



LUP 10.16/./90



High-power PCB terminal with clamping yoke screw connection, in 10.16 mm pitch for wire cross-sections up to 16 mm<sup>2</sup> (AWG 6).

- Increased derating reserves through the use of WEMID insulating material.
- Conductor outlet direction: 90°
- With integrated test point for test plug PS 2.0.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.13...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...10	
Stripping length	mm	12	
Screwdriver blade	mm	1.0 x 5.5, PZ 2	
According to norm		DIN 5264	
Tightening torque range	Nm	1.2...1.5	
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>72</b>
At ambient temperature	20°C		40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>58</b>	<b>58 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>26-6</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	58	58 5
AWG conductor	AWG	22-6	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.2 x 1.2	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
 UL: 300 V / 58 A / AWG 26 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

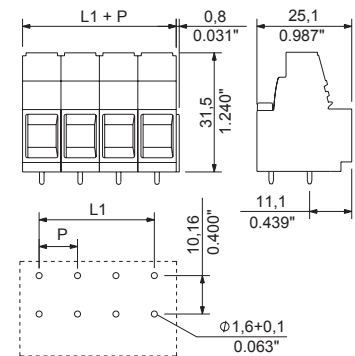
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- The data given under CSA relates to a cUL approval - E60693
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUP 10.16/./90



Dimensioned drawing



Accessories

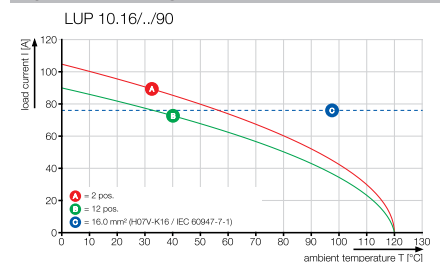
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDS 1.0X5.5X150	9008350000
	SDIS 1.0X5.5X125	9008410000
Crosshead screwdriver		
	SDK PZ2	9008540000
	SDIK PZ2	9008890000
Test plug		
	PS 2.0 MC	0310000000
Identification systems		
	DEK 5 NEUTRAL	0473360000
	DEK 5/5 MC NE WS	1609801044

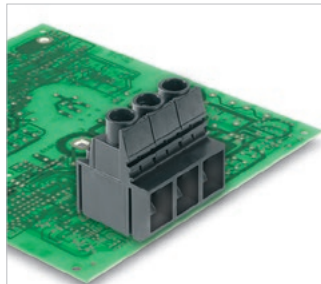
Ordering data

Solder pin length		5 mm		
Colour		Black		
Pitch 10.16 mm				
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	20	2014050000
3	20.32	0.800	20	2014060000
4	30.48	1.200	20	2014090000
5	40.64	1.600	20	2014140000
6	50.80	2.000	20	2014150000
7	60.96	2.400	20	2014160000
8	71.12	2.800	20	2014170000
9	81.28	3.200	20	2014180000

Representative deratings curve



LUP 10.16/./90V



High-performance PCB terminal block with clamping yoke screw connection, in 10.16 mm pitch for wire cross-sections up to 16 mm<sup>2</sup> (AWG 6).

- UL approval 600 V
- Increased derating reserves through the use of WEMID insulating material.
- Wire outlet direction: 90°
- With integrated test point for test plug PS 2.0.

Technical data

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	0.13...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...10	
Stripping length	mm	12	
Screwdriver blade	mm	1.0 x 5.5, PZ 2	
		According to norm DIN 5264	
Tightening torque range	Nm	1.2...1.5	
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>72</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>51</b>	<b>51 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>22-6</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	51	51 5
AWG conductor	AWG		22-6
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.2 x 1.2	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 51 A / AWG 22 - 6



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

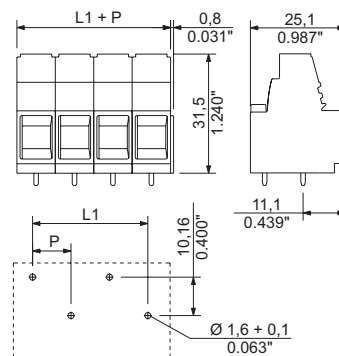
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- The data given under CSA relates to a cUL approval - E60693
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LUP 10.16/./90V



Dimensioned drawing



Accessories

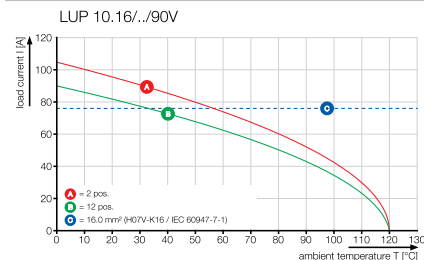
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDS 1.0X5.5X150	9008350000
	SDIS 1.0X5.5X125	9008410000
<b>Crosshead screwdriver</b>		
	SDK PZ2	9008540000
	SDIK PZ2	9008890000
<b>Test plug</b>		
	PS 2.0 MC	0310000000
<b>Identification systems</b>		
	DEK 5 NEUTRAL	0473360000
	DEK 5/5 MC NE WS	1609801044

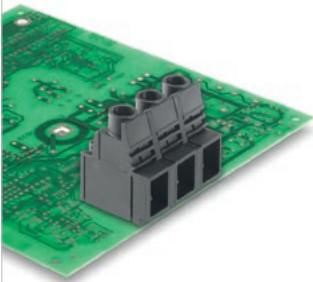
Ordering data

Solder pin length		5 mm		
Colour		Black		
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	20	2012810000
3	20.32	0.800	20	2012890000
4	30.48	1.200	20	2013870000
5	40.64	1.600	20	2013880000
6	50.80	2.000	20	2013890000
7	60.96	2.400	20	2013900000
8	71.12	2.800	20	2013910000
9	81.28	3.200	20	2013920000

Representative deratings curve



LUP 12.7../90



High-performance PCB terminal block with clamping yoke screw connection, in 12.70 mm pitch for wire cross-sections up to 16 mm<sup>2</sup>.

- UL approval 600 V
- Increased derating reserves through the use of WEMID insulating material.
- Wire outlet direction: 90°
- With integrated test point for test plug PS 2.0.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.13...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...10	
Stripping length	mm	12	
Screwdriver blade	mm	1.0 x 5.5, PZ 2	
According to norm		DIN 5264	
Tightening torque range	Nm	1.2...1.5	
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature	20°C	40°C	
For conductor cross-section		III	III II
Overvoltage category		3	2 2
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>65</b>	<b>65</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>22-6</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600
Rated current	A	65	65
AWG conductor	AWG	22-6	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.2 x 1.2	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 65 A / AWG 22 - 6



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

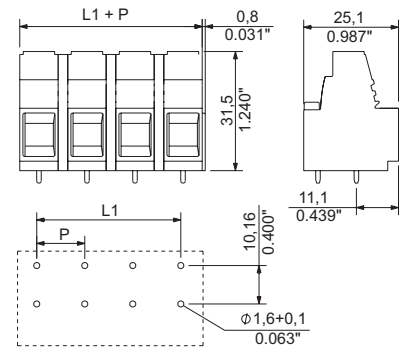
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- The data given under CSA relates to a cUL approval - E60693
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LUP 12.7../90



Dimensioned drawing



Accessories

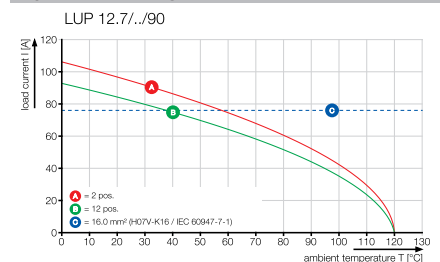
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDS 1.0X5.5X150	9008350000
	SDIS 1.0X5.5X125	9008410000
Crosshead screwdriver		
	SDK PZ2	9008540000
	SDIK PZ2	9008890000
Test plug		
	PS 2.0 MC	0310000000
Identification systems		
	DEK 5 NEUTRAL	0473360000
	DEK 5/5 MC NE WS	1609801044

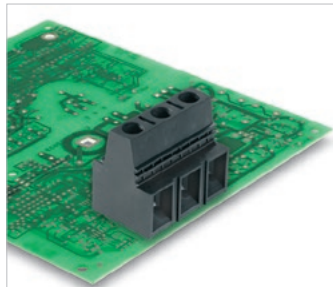
Ordering data

Solder pin length		5 mm		
Colour		Black		
Pitch		12.70 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	12.70	0.500	20	2014360000
3	25.40	1.000	20	2014380000
4	38.10	1.500	20	2014400000
5	50.80	2.000	20	2014420000
6	63.50	2.500	20	2014590000
7	76.20	3.000	20	2014610000
8	88.90	3.250	20	2014760000
9	101.60	4.000	20	2014900000

Representative deratings curve



LX 15.00/./90



High-power PCB Terminal with clamping yoke screw connection, in 15.00 mm pitch for wire cross-sections up to 25 mm<sup>2</sup> (AWG 4).

- UL 600 V approval.
- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction: 90°.
- With integrated test point for PS 2.0 test plug.
- Versions up to 8 poles have block construction.
- Available with and without mounting flange.

Technical data

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	1.31...25	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>1.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...25	
Flexible H05(07) V-K	mm <sup>2</sup>	1.5...25	
Flexible with ferrule	mm <sup>2</sup>	1.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...16	
Stripping length	mm	16	
Screwdriver blade	mm	1.0 x 5.5	
	According to norm	DIN 5264	
Tightening torque range	Nm	2.4...4	
<b>Rated current, max.</b>	<b>A</b>	<b>101</b>	<b>101</b>
At ambient temperature		20°C	40°C
For conductor cross-section		III	III II
Overvoltage category		3	2 2
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>85</b>	<b>85 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>16-4</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	85	85 5
AWG conductor	AWG		16-4
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.2 x 1.2	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 101 A / 1.5 - 25 mm<sup>2</sup>  
 UL: 600 V / 85 A / AWG 16 - 4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

Note:

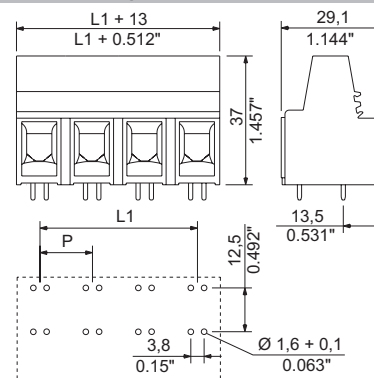
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LX 15.00/./90

with test point



Dimensioned drawing



Accessories

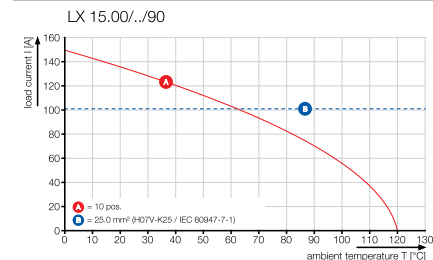
Note: Refer to the Accessories chapter for additional accessories.

<b>Screwdriver</b>		<b>Order No.</b>
	SDS 1.2X6.5X150	<b>9009010000</b>
	SDIS 1.2X6.5X150	<b>9008420000</b>
<b>Crosshead screwdriver</b>		
	SDK PZ2	<b>9008540000</b>
	SDIK PZ2	<b>9008890000</b>
<b>Test plug</b>		
	PS 2.0 MC	<b>0310000000</b>
<b>Identification systems</b>		
	DEK 5 NEUTRAL	<b>0473360000</b>
	DEK 5/5 MC NE WS	<b>1609801044</b>

Ordering data

<b>Solder pin length</b>	4.5 mm			
<b>Colour</b>	Black			
<b>Pitch</b>	15.00 mm			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
1	0.00	0.000	20	<b>1226460000</b>
2	15.00	0.591	20	<b>1226470000</b>
3	30.00	1.181	20	<b>1174720000</b>
4	45.00	1.772	20	<b>1226480000</b>
5	60.00	2.362	20	<b>1226490000</b>
6	75.00	2.953	10	<b>1226500000</b>
7	90.00	3.543	10	<b>1226510000</b>
8	105.00	4.134	10	<b>1921480000</b>

Representative deratings curve

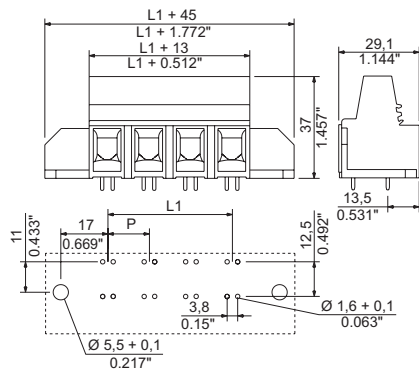


**LXB 15.00/./90**

with fixing flange and test point



Dimensioned drawing



**Ordering data**

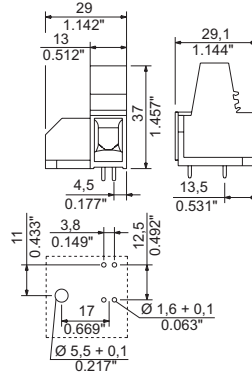
Solder pin length		4.5 mm		
Colour		Black		
Pitch		15.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.00	0.591	20	1226520000
3	30.00	1.181	20	1226530000
4	45.00	1.772	20	1226540000
5	60.00	2.362	20	1226550000
6	75.00	2.953	10	1226560000
7	90.00	3.543	10	1226570000
8	105.00	4.134	10	1226580000

**LXBL 15.00/./90**

with fixing flange left and test point



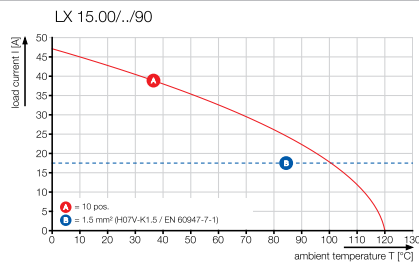
Dimensioned drawing



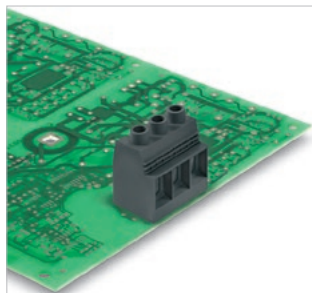
**Ordering data**

Solder pin length		4.5 mm		
Colour		Black		
Pitch		15.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	20	1226590000

**Additional deratings curves**



LXXX 15.00/./90



High-power PCB Terminal with clamping yoke screw connection, in 15.00 mm pitch for wire cross-sections up to 50 mm<sup>2</sup> (AWG 1).

- UL 600 V approval for unlimited international usage in devices.
- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction of 90°.
- With integrated test point for PS 2.0 test plug.
- Versions up to 8 poles have block construction.
- Available with and without mounting flange.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...50	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...50	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...35	
Flexible with ferrule	mm <sup>2</sup>	0.5...35	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...35	
Stripping length	mm	18	
Screwdriver blade	mm	1.2 x 6.5	
According to norm		DIN 5264	
Tightening torque range	Nm	2.5...4	
<b>Rated current, max.</b>		<b>150</b>	<b>150</b>
At ambient temperature	20°C		40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>127</b>	<b>127 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>20-1</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	127	127 5
AWG conductor	AWG		20-1
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.2 x 1.2	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 150 A / 0.5 - 50 mm<sup>2</sup>  
 UL: 600 V / 127 A / AWG 20 - 1



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

Note:

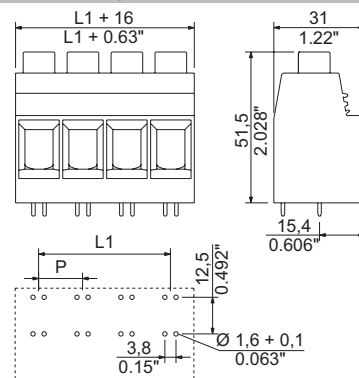
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- IP 20 from 16 mm<sup>2</sup> to 50 mm<sup>2</sup>
- The test point can only be used as potential-pickup point.
- Wire-end ferrules are mandatory for stranded wires with more than 19 strands.

LXXX 15.00/./90

with test point



Dimensioned drawing



Ordering data

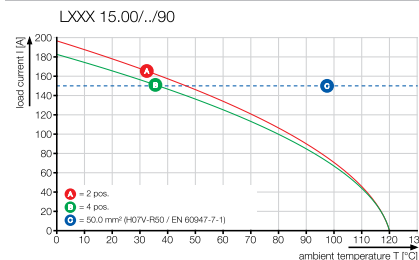
Solder pin length		4.5 mm		
Colour		Black		
Pitch		15.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	20	1047120000
2	15.00	0.591	20	1047130000
3	30.00	1.181	10	1047140000
4	45.00	1.772	10	1047150000
5	60.00	2.363	16	1386250000
6	75.00	2.954	12	1386400000
7	90.00	3.545	12	1386550000
8	105.00	4.136	10	1386700000
9	120.00	4.727	8	1386850000

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDS 1.2X6.5X150	9009010000
	SDIS 1.2X6.5X150	9008420000
Crosshead screwdriver		
	SDK PZ2	9008540000
	SDIK PZ2	9008890000
Test plug		
	PS 2.0 MC	0310000000
Identification systems		
	DEK 5 NEUTRAL	0473360000
	DEK 5/5 MC NE WS	1609801044

Representative deratings curve

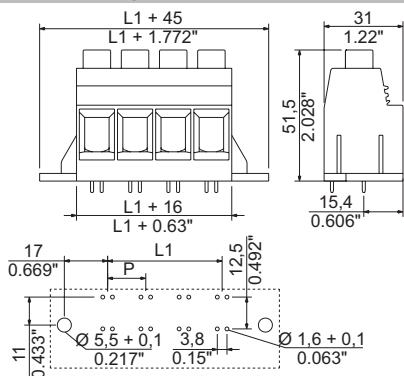


LXXX 15.00../90F

with fixing flange and test point



Dimensioned drawing



Ordering data

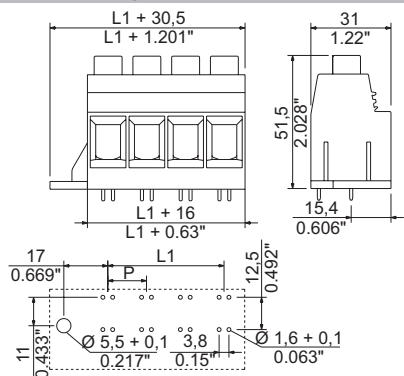
Solder pin length		4.5 mm	
Colour		Black	
Pitch		15.00 mm	
Pol.	L1 (inch)	Qty.	Order No.
1	0.00	20	1047280000
2	15.00	20	1047290000
3	30.00	10	1047300000
4	45.00	10	1047310000
5	60.00	12	1386290000
6	75.00	10	1386440000
7	90.00	8	1386590000
8	105.00	8	1386740000
9	120.00	8	1386890000

LXXX 15.00../90FL

with fixing flange left and test point



Dimensioned drawing



Ordering data

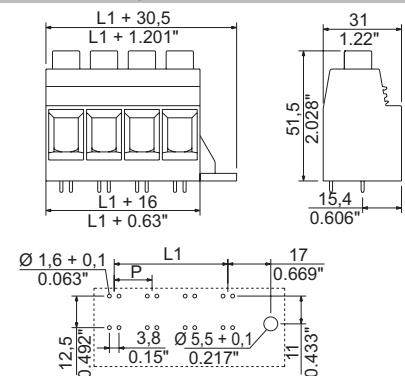
Solder pin length		4.5 mm	
Colour		Black	
Pitch		15.00 mm	
Pol.	L1 (inch)	Qty.	Order No.
1	0.00	20	1047440000
2	15.00	20	1047450000
3	30.00	10	1047460000
4	45.00	10	1047470000
5	60.00	12	1386330000
6	75.00	12	1386480000
7	90.00	10	1386630000
8	105.00	8	1386780000
9	120.00	8	1386930000

LXXX 15.00../90FR

with fixing flange right and test point



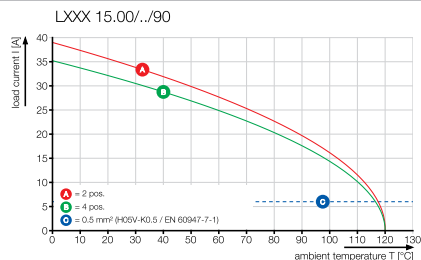
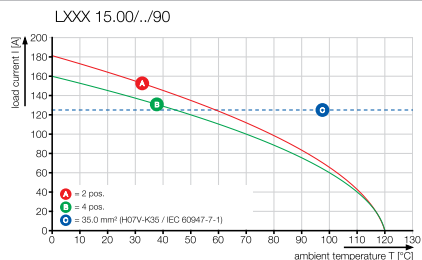
Dimensioned drawing



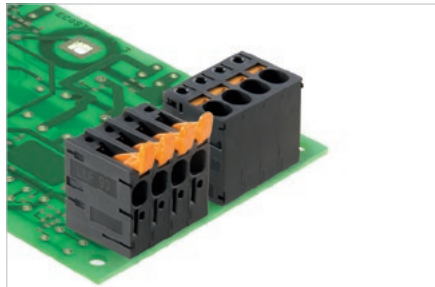
Ordering data

Solder pin length		4.5 mm	
Colour		Black	
Pitch		15.00 mm	
Pol.	L1 (inch)	Qty.	Order No.
1	0.00	20	1047600000
2	15.00	20	1047610000
3	30.00	10	1047620000
4	45.00	10	1047630000
5	60.00	12	1386370000
6	75.00	12	1386520000
7	90.00	10	1386670000
8	105.00	8	1386820000
9	120.00	8	1386970000

Additional deratings curves



LLF 7.50/./90



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 6 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction: 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.25...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>150 300</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 10</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	1000 300
Rated current	A	35	35 10
AWG conductor	AWG		24-8
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	d = 1.5	
Solder eyelet Ø = D	mm	2	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 600 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 300 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

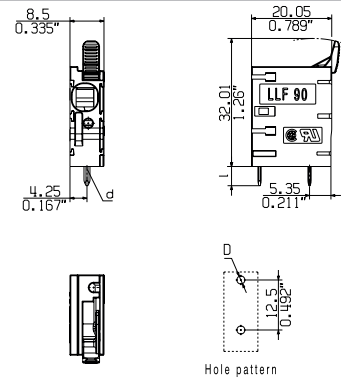
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LLF 7.50/./90



Dimensioned drawing



Ordering data

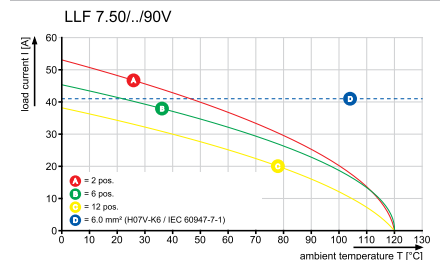
Solder pin length	5 mm		
Colour	Black		
<b>Pitch</b>	<b>7.50 mm</b>		
Pol.	L1	(inch)	Qty. Order No.
1	0.00	0.000	200 2471520000

Accessories

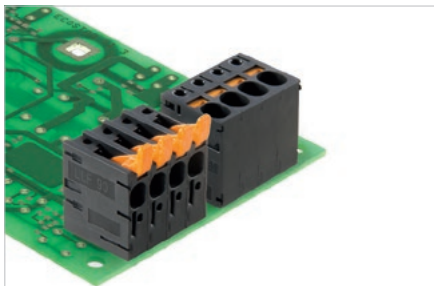
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.5X3.0X100	9008380000
	SDS 0.5X3.0X80	9008320000
Test plug		
	PS 2.0 MC	0310000000

Representative deratings curve



LLF 7.50/.. /90V



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 6 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction: 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.25...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG		24-8
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	d = 1.5	
Solder eyelet Ø = D	mm	2	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

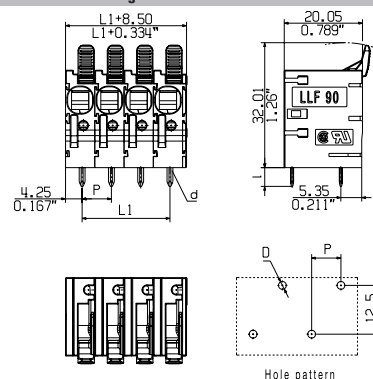
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LLF 7.50/.. /90V



Dimensioned drawing



Accessories

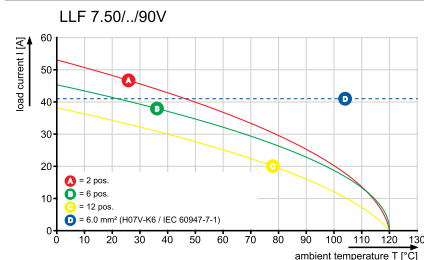
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.5X3.0X100	<b>9008380000</b>
	SDS 0.5X3.0X80	<b>9008320000</b>
Test plug		
	PS 2.0 MC	<b>0310000000</b>

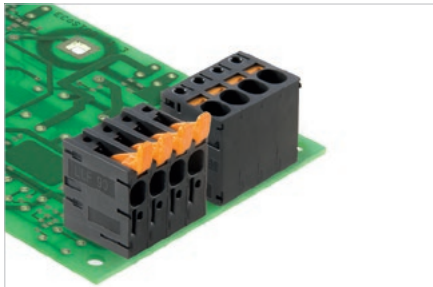
Ordering data

Solder pin length		5 mm		
Colour		Black		
Pitch		7.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.50	0.295	100	<b>2471530000</b>
3	15.00	0.590	80	<b>2472090000</b>
4	22.50	0.885	80	<b>2472100000</b>
5	30.00	1.180	50	<b>2472110000</b>
6	37.50	1.475	50	<b>2472120000</b>
7	45.00	1.770	50	<b>2472130000</b>
8	52.50	2.065	30	<b>2472140000</b>
9	60.00	2.360	30	<b>2472150000</b>
10	67.50	2.655	20	<b>2472160000</b>
11	75.00	2.950	20	<b>2472170000</b>
12	82.50	3.245	20	<b>2472180000</b>

Representative deratings curve



LLFS 7.50/./90



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 6 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction: 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.25...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...4</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>150 300</b>
<b>Rated current</b>	<b>A</b>	<b>37</b>	<b>37 10</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	1000 300
Rated current	A	37	37 10
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	d = 1.5	
Solder eyelet Ø = D	mm	2	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 300 V / 37 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

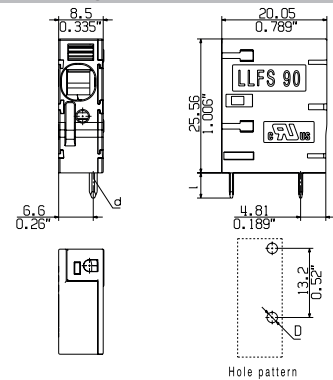
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LLFS 7.50/./90



Dimensioned drawing



Ordering data

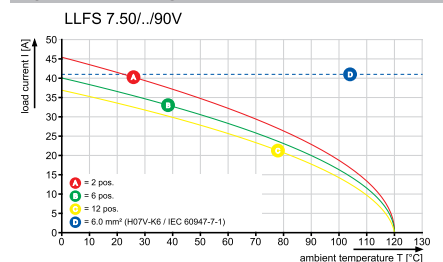
Solder pin length		5 mm		
Colour		Black		
<b>Pitch</b>		<b>7.50 mm</b>		
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	200	2473420000

Accessories

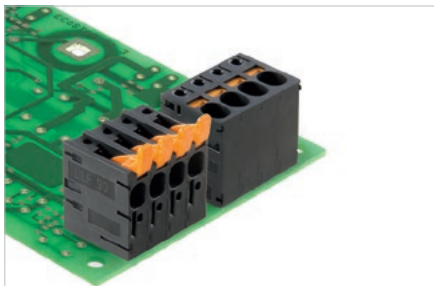
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	9008400000
	SDS 0.8X4.0X100	9008340000
Test plug		
	PS 2.0 MC	0310000000

Representative deratings curve



LLFS 7.50/./90V



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 6 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction: 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.25...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>37</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>37</b>	<b>37 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	37	37 5
AWG conductor	AWG		24-8
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	d = 1.5	
Solder eyelet Ø = D	mm	2	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 37 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

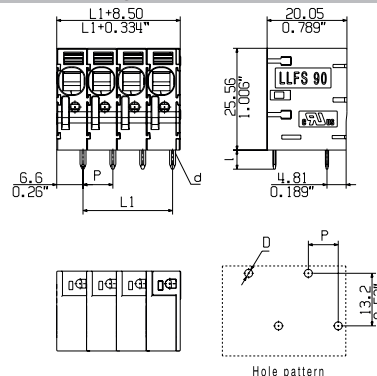
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LLFS 7.50/./90V



Dimensioned drawing



Accessories

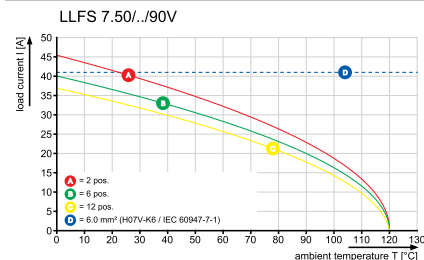
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	9008400000
	SDS 0.8X4.0X100	9008340000
Test plug		
	PS 2.0 MC	0310000000

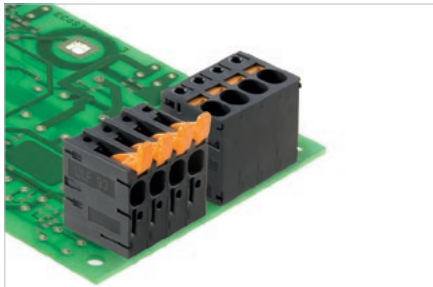
Ordering data

Solder pin length		5 mm		
Colour		Black		
Pitch		7.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.50	0.295	100	2473000000
3	15.00	0.590	80	2473010000
4	22.50	0.885	80	2473020000
5	30.00	1.180	50	2473030000
6	37.50	1.475	50	2473040000
7	45.00	1.770	50	2473050000
8	52.50	2.065	30	2473060000
9	60.00	2.360	30	2473070000
10	67.50	2.655	20	2473080000
11	75.00	2.950	20	2473090000
12	82.50	3.245	20	2473100000

Representative deratings curve



LLFS 7.50/./180



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 6 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction: 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.25...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>150 300</b>
<b>Rated current</b>	<b>A</b>	<b>37</b>	<b>37 10</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	1000 300
Rated current	A	37	37 10
AWG conductor	AWG		24-8
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	d = 1.5	
Solder eyelet Ø = D	mm	2	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 300 V / 37 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

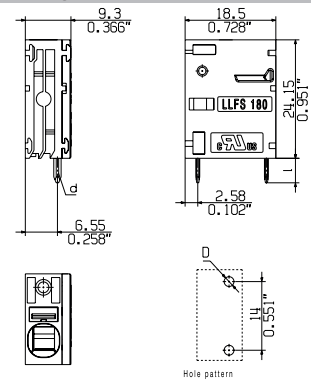
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LLFS 7.50/./180



Dimensioned drawing



Ordering data

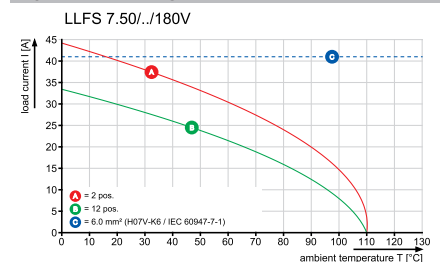
Solder pin length	5 mm			
Colour	Black			
Pitch	7.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	200	2491110000

Accessories

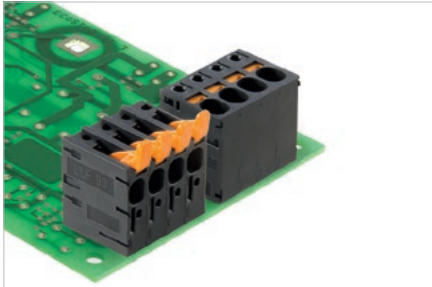
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	9008400000
	SDS 0.8X4.0X100	9008340000
Test plug		
	PS 2.0 MC	0310000000

Representative deratings curve



LLFS 7.50../180V



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 6 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction: 90° version

Product data

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 37 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

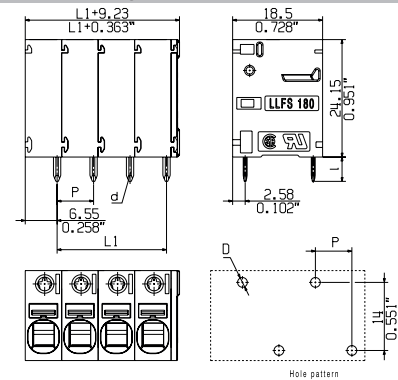
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LLFS 7.50../180V



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.25...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>38</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>37</b>	<b>37 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	37	37 5
AWG conductor	AWG	-	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	d = 1.5	
Solder eyelet Ø = D	mm	2	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

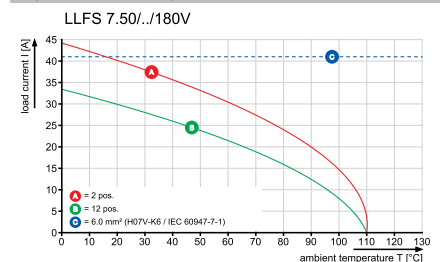
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	9008400000
	SDS 0.8X4.0X100	9008340000
Test plug		
	PS 2.0 MC	0310000000

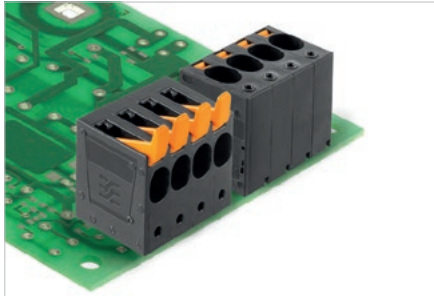
Ordering data

Solder pin length		5 mm		
Colour		Black		
Pitch		7.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	0.00	0.000	100	2491620000
3	7.50	0.295	80	2491630000
4	15.00	0.590	80	2491640000
5	22.50	0.885	50	2491650000
6	30.00	1.180	50	2491660000
7	37.50	1.475	50	2491670000
8	45.00	1.770	30	2491680000
9	52.50	2.065	30	2491690000
10	60.00	2.360	20	2491700000
11	67.50	2.655	20	2491710000
12	75.00	2.950	20	2491720000

Representative deratings curve



LUF 10.00/./90



High-performance PCB terminal block with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the Connection Safety Concept, the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves thanks to WEMID insulating material
- Wire outlet direction of 90°

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	0.5...16
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>
Stranded H07 V-R	mm <sup>2</sup>	6...16
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16
Flexible with ferrule	mm <sup>2</sup>	0.5...16
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16
Stripping length	mm	18
Screwdriver blade	mm	0.8 x 4.0

According to norm

Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C

For conductor cross-section		III	III	II
Overtoltage category		3	2	2
Pollution severity		3	2	2

<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>
Rated impulse voltage	kV	8	8	6

<b>UL / CUL (Use Group)</b>	<b>B</b>	<b>C</b>	<b>D</b>
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<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>600</b>	<b>600</b>
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<b>Rated current</b>	<b>A</b>	<b>61</b>	<b>61</b>	<b>5</b>
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<b>AWG conductor</b>	<b>AWG</b>	<b>18-6</b>
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<b>CSA (Use Group)</b>	<b>B</b>	<b>C</b>	<b>D</b>
------------------------	----------	----------	----------

Rated voltage	V	300	1000	600
---------------	---	-----	------	-----

Rated current	A	61	61	5
---------------	---	----	----	---

AWG conductor	AWG	18-6
---------------	-----	------

General data

Type of insulation material		Wemid (PA)
UL 94 flammability rating		V-0
Contact base material		
Material of contact surface		
Pin dimensions = d	mm	1.2, Octagonal
Solder eyelet Ø = D	mm	1.6
Solder eyelet Ø tolerance	mm	+ 0,1

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
 UL: 300 V / 61 A / AWG 18 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

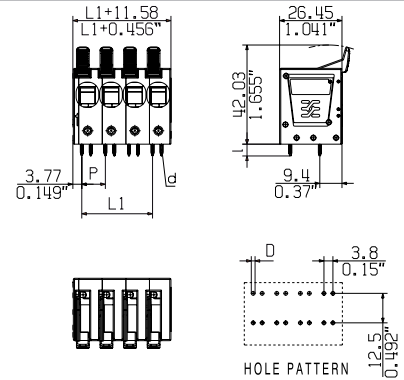
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUF 10.00/./90



Dimensioned drawing



Accessories

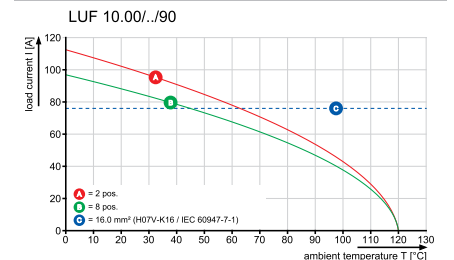
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDS 0.8X4.0X100	9008340000
	SDIS 0.8X4.0X100	9008400000
Test plug		
	PS 2.0 MC	0310000000

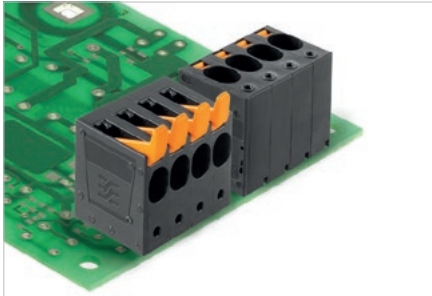
Ordering data

Solder pin length	5 mm			
Colour	Black			
Pitch	10.00 mm			
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	50	1988590000
2	10.00	0.394	40	1988600000
3	20.00	0.787	40	1988610000
4	30.00	1.181	30	1988620000
5	40.00	1.575	25	1988630000
6	50.00	1.969	20	1988640000
7	60.00	2.362	10	1988650000
8	70.00	2.756	10	1988660000
9	80.00	3.150	10	1988670000
10	90.00	3.543	10	1988680000
11	100.00	3.937	10	1988690000
12	110.00	4.331	10	1988700000

Representative deratings curve



LUF 10.00/./90V



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction: 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>58</b>	<b>58 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>18-6</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	58	58 5
AWG conductor	AWG	18-6	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material			
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 58 A / AWG 18 - 6



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

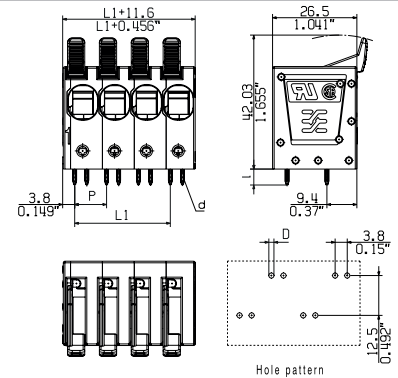
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUF 10.00/./90V



Dimensioned drawing



Accessories

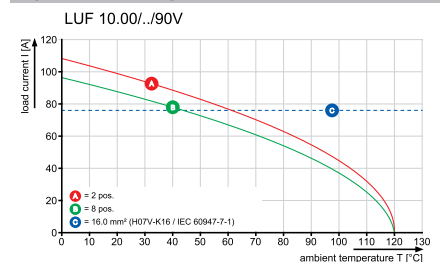
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	9008400000
	SDS 0.8X4.0X100	9008340000
Test plug		
	PS 2.0 MC	0310000000

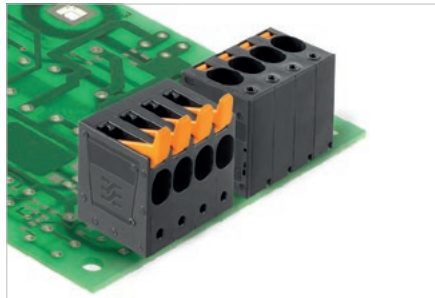
Ordering data

Solder pin length		5 mm		
Colour		Black		
Pitch 10.00 mm				
Pol.	L1	(inch)	Qty.	Order No.
2	10.00	0.394	40	2453690000
3	20.00	0.787	40	2453700000
4	30.00	1.181	30	2453710000
5	40.00	1.575	30	2453720000
6	50.00	1.969	20	2453730000
7	60.00	2.362	10	2453740000
8	70.00	2.756	10	2453750000
9	80.00	3.150	10	2453760000
10	90.00	3.543	10	2453770000
11	100.00	3.937	10	2453780000
12	110.00	4.331	1	2453790000

Representative deratings curve



LUFS 10.00/./90



High-performance PCB terminal block with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the Connection Safety Concept, the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves thanks to WEMID insulating material
- Wire outlet direction of 90°

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>690 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>53</b>	<b>53 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>18-4</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	53	53 5
AWG conductor	AWG		18-4
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material			
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 53 A / AWG 18-4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

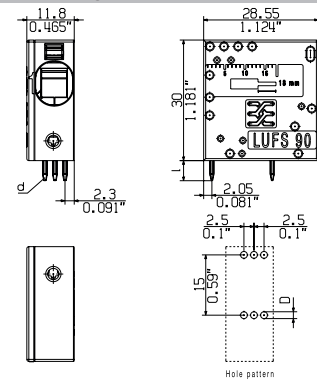
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUFS 10.00/./90



Dimensioned drawing



Ordering data

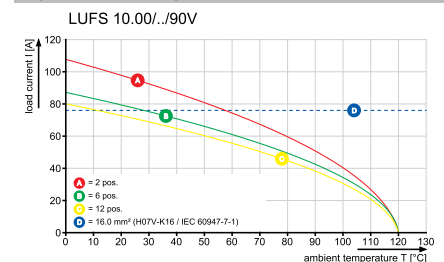
Solder pin length	5 mm			
Colour	Black			
<b>Pitch</b>	<b>10.00 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	50	<b>2500560000</b>

Accessories

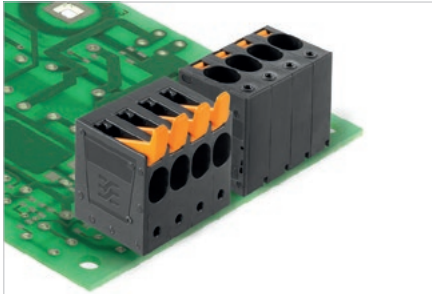
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	<b>9008400000</b>
	SDS 0.8X4.0X100	<b>9008340000</b>
Test plug		
	PS 2.0 MC	<b>0310000000</b>

Representative deratings curve



LUF5 10.00/./90V



High-performance PCB terminal block with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup>.

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point: with the Connection Safety Concept, the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves thanks to WEMID insulating material
- Wire outlet direction of 90°

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C
For conductor cross-section		III	III II
Overtoltage category		III	II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>53</b>	<b>53 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>18-4</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	53	53 5
AWG conductor	AWG	18-4	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material			
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 53 A / AWG 18 - 4



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

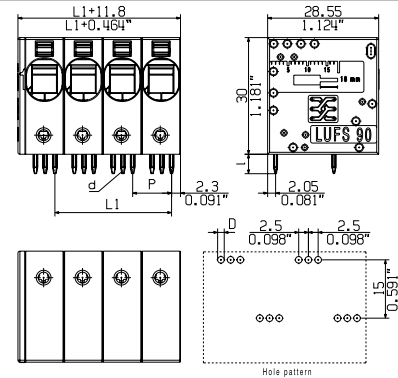
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUF5 10/./90V



Dimensioned drawing



Accessories

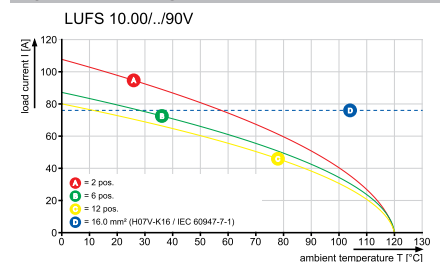
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	9008400000
	SDS 0.8X4.0X100	9008340000
Test plug		
	PS 2.0 MC	0310000000

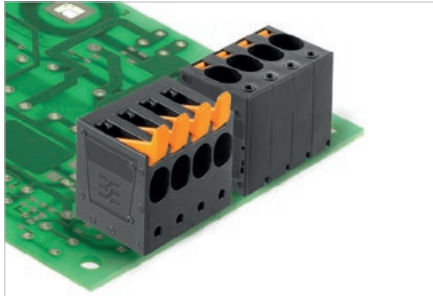
Ordering data

Solder pin length		5 mm		
Colour		Black		
Pitch		10.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.00	0.394	40	2499430000
3	20.00	0.787	40	2500460000
4	30.00	1.181	30	2500470000
5	40.00	1.575	25	2500480000
6	50.00	1.969	20	2500490000
7	60.00	2.362	10	2500500000
8	70.00	2.756	10	2500510000
9	80.00	3.150	10	2500520000
10	90.00	3.543	10	2500530000
11	100.00	3.937	10	2500540000
12	110.00	4.331	10	2500550000

Representative deratings curve



LUF5 10.00/./180



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup>.

- Fast connection thanks to a pusher for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction and activation in 180° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>57</b>	<b>57 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>18-4</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	57	57 5
AWG conductor	AWG		18-4
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material			
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 57 A / AWG 18 - 4



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

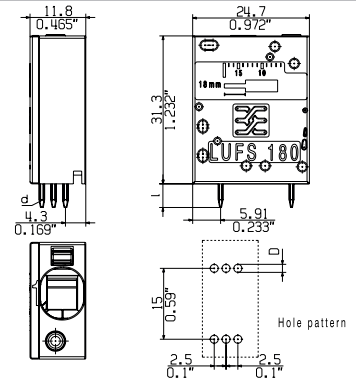
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUF5 10.00/./180



Dimensioned drawing



Ordering data

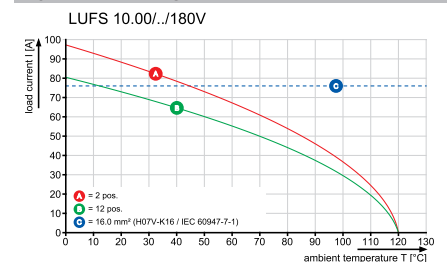
Solder pin length				5 mm
Colour				Black
<b>Pitch</b>	<b>10.00 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	50	2491810000

Accessories

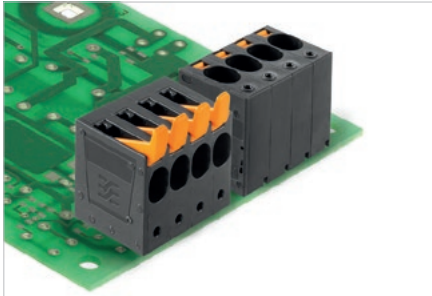
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	9008400000
	SDS 0.8X4.0X100	9008340000
Test plug		
	PS 2.0 MC	0310000000

Representative deratings curve



LUFS 10.00/./180V



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup>.

- Fast connection thanks to a pusher for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction and activation in 180° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>57</b>	<b>57 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>18-4</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	57	57 5
AWG conductor	AWG		18-4
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		tinned	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 57 A / AWG 18 - 4



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

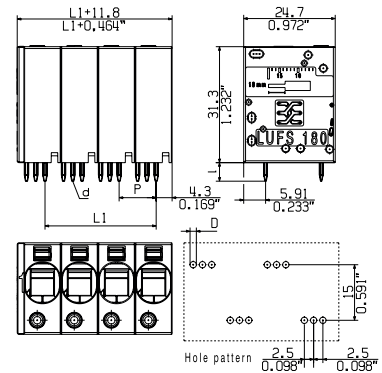
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUFS 10.00/./180V



Dimensioned drawing



Accessories

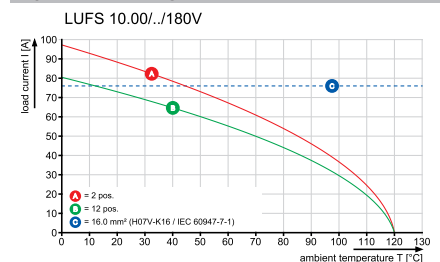
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	9008400000
	SDS 0.8X4.0X100	9008340000
Test plug		
	PS 2.0 MC	0310000000

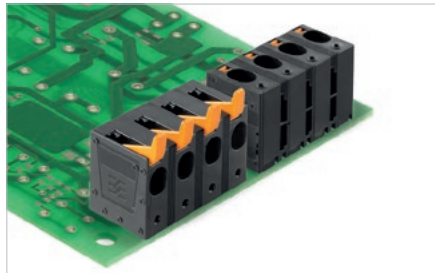
Ordering data

Solder pin length		5 mm		
Colour		Black		
Pitch		10.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.00	0.394	40	2492110000
3	20.00	0.787	40	2492120000
4	30.00	1.181	30	2492130000
5	40.00	1.575	25	2492140000
6	50.00	1.969	20	2492150000
7	60.00	2.362	10	2492160000
8	70.00	2.756	10	2492170000
9	80.00	3.150	10	2492180000
10	90.00	3.543	10	2492190000
11	100.00	3.937	10	2492200000
12	110.00	4.331	10	2492210000

Representative deratings curve



LUF 15.00/././90



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup> in 15.00 mm pitch

- Fast connection thanks to a pusher for opening the contact point, or direct insertion
- Securely closed contact point, with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction and activation in 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	0.5..16
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5..16</b>
Stranded H07 V-R	mm <sup>2</sup>	10..16
Flexible H05(07) V-K	mm <sup>2</sup>	0.5..16
Flexible with ferrule	mm <sup>2</sup>	0.5..16
Ferrule with plastic collar	mm <sup>2</sup>	0.5..16
Stripping length	mm	18
Screwdriver blade	mm	0.8 x 4.0

According to norm

Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>71</b>
At ambient temperature		20°C	40°C

For conductor cross-section		III	III	II
Overtoltage category		3	2	2
Pollution severity		3	2	2

<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>
Rated impulse voltage	kV	8	8	8

<b>UL / CUL (Use Group)</b>	<b>B</b>	<b>C</b>	<b>D</b>
-----------------------------	----------	----------	----------

<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>	<b>600</b>
----------------------	----------	------------	------------	------------

<b>Rated current</b>	<b>A</b>	<b>61</b>	<b>61</b>	<b>5</b>
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<b>AWG conductor</b>	<b>AWG</b>	<b>18-6</b>
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<b>CSA (Use Group)</b>	<b>B</b>	<b>C</b>	<b>D</b>
------------------------	----------	----------	----------

Rated voltage	V	600	600	600
---------------	---	-----	-----	-----

Rated current	A	61	61	5
---------------	---	----	----	---

AWG conductor	AWG	18-6
---------------	-----	------

General data

Type of insulation material		Wemid (PA)
UL 94 flammability rating		V-0
Contact base material		E-Cu
Material of contact surface		
Pin dimensions = d	mm	1.2, Octagonal
Solder eyelet Ø = D	mm	1.7
Solder eyelet Ø tolerance	mm	+ 0,1

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
UL: 600 V / 61 A / AWG 18 - 6



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

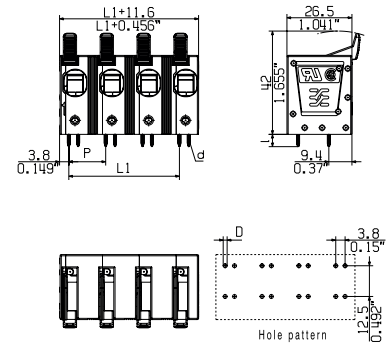
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUF 15.00/././90



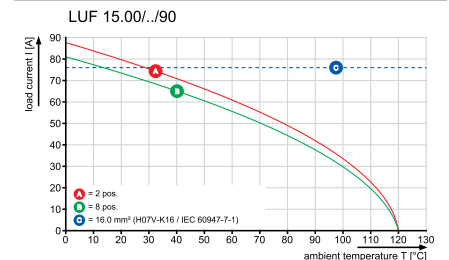
Dimensioned drawing



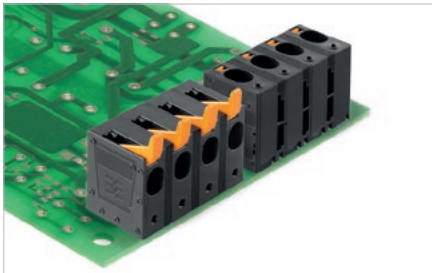
Ordering data

Solder pin length		5 mm		
Colour		Black		
Pitch		15.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.00	0.590	40	2491800000
3	30.00	1.181	30	2491900000
4	45.00	1.772	25	2491910000
5	60.00	2.362	20	2491920000
6	75.00	2.953	10	2491930000
7	90.00	3.543	10	2491940000
8	105.00	4.134	10	2491950000

Representative deratings curve



LUF 15.00/.. /90V



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup> in 15.00 mm pitch

- Fast connection without tools thanks to an operating lever for opening the contact point, or direct insertion
- Securely closed contact point, with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction: 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	10...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>68</b>	<b>62</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>58</b>	<b>58 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>18-6</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	58	58 5
AWG conductor	AWG		18-6
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.7	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 68 A / 0.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 58 A / AWG 18 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

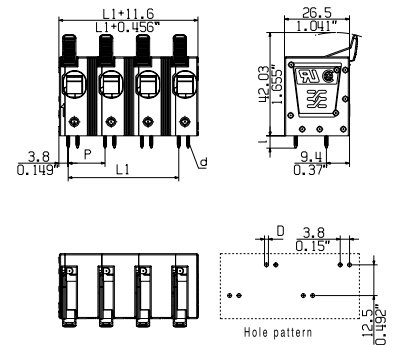
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUF 15.00/.. /90V



Dimensioned drawing



Accessories

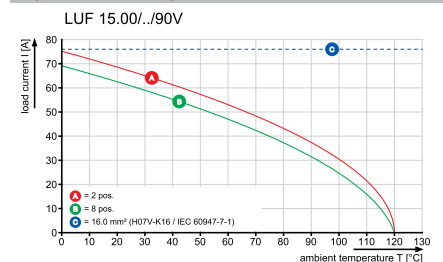
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	9008400000
	SDS 0.8X4.0X100	9008340000
Test plug		
	PS 2.0 MC	0310000000

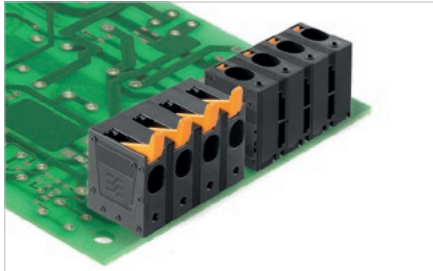
Ordering data

Solder pin length		5 mm		
Colour		Black		
Pitch		15.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.00	0.590	40	2492000000
3	30.00	1.181	30	2492010000
4	45.00	1.772	25	2492020000
5	60.00	2.362	20	2492030000
6	75.00	2.953	10	2492040000
7	90.00	3.543	10	2492050000
8	105.00	4.134	10	2492060000

Representative deratings curve



LUFS 15.00/./90V



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup> in 15.00 mm pitch

- Fast connection thanks to a pusher for opening the contact point, or direct insertion
- Securely closed contact point, with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction and activation in 90° version

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	10...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	

According to norm

Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C

For conductor cross-section			
Overtoltage category		III	III
Pollution severity		3	2
		2	2

<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>
Rated impulse voltage	kV	8	8	8

<b>UL / CUL (Use Group)</b>	<b>B</b>	<b>C</b>	<b>D</b>
-----------------------------	----------	----------	----------

<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>	<b>600</b>
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<b>Rated current</b>	<b>A</b>	<b>53</b>	<b>53</b>	<b>5</b>
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<b>AWG conductor</b>	<b>AWG</b>	<b>18-4</b>		
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<b>CSA (Use Group)</b>	<b>B</b>	<b>C</b>	<b>D</b>
------------------------	----------	----------	----------

Rated voltage	V	600	600	600
---------------	---	-----	-----	-----

Rated current	A	53	53	5
---------------	---	----	----	---

AWG conductor	AWG	18-4		
---------------	-----	------	--	--

General data

Type of insulation material		Wemid (PA)
UL 94 flammability rating		V-0
Contact base material		E-Cu
Material of contact surface		
Pin dimensions = d	mm	1.2, Octagonal
Solder eyelet Ø = D	mm	1.7
Solder eyelet Ø tolerance	mm	+ 0,1

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
UL: 600 V / 53 A / AWG 18 - 4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

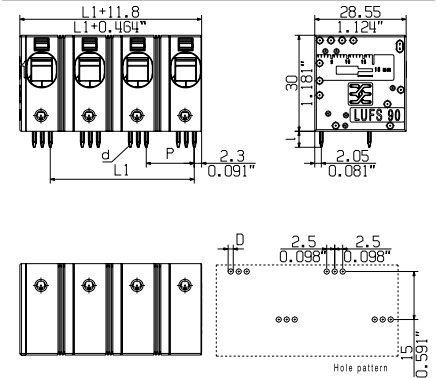
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUFS 15.00/./90V



Dimensioned drawing



Accessories

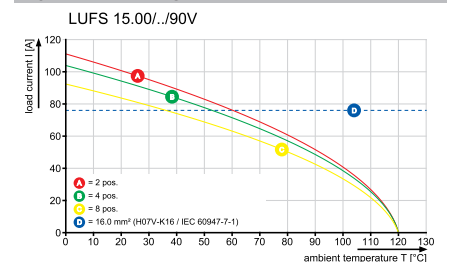
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	<b>9008400000</b>
	SDS 0.8X4.0X100	<b>9008340000</b>
Test plug		
	PS 2.0 MC	<b>0310000000</b>

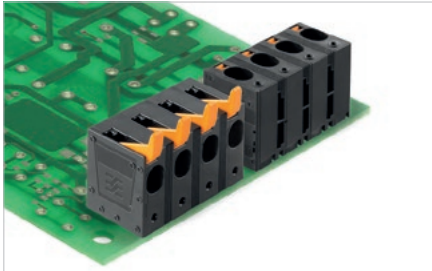
Ordering data

Solder pin length	5 mm			
Colour	Black			
<b>Pitch</b>	<b>15.00 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
2	15.00	0.590	40	<b>2499440000</b>
3	30.00	1.181	30	<b>2500570000</b>
4	45.00	1.772	25	<b>2500580000</b>
5	60.00	2.362	20	<b>2500590000</b>
6	75.00	2.953	10	<b>2500660000</b>
7	90.00	3.543	10	<b>2500600000</b>
8	105.00	4.134	10	<b>2500610000</b>

Representative deratings curve



**LUF5 15.00/./180V**



High-performance PCB terminal with PUSH IN connection system for wire cross-sections up to 16 mm<sup>2</sup> in 15.00 mm pitch

- Fast connection thanks to a pusher for opening the contact point, or direct insertion
- Securely closed contact point: with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for test plug PS 2.0
- Increased derating reserves through the use of WEMID insulating material
- Wire outlet direction and activation in 180° version

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.	mm <sup>2</sup>	0.5...16
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>
Stranded H07 V-R	mm <sup>2</sup>	10...16
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16
Flexible with ferrule	mm <sup>2</sup>	0.5...16
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16
Stripping length	mm	18
Screwdriver blade	mm	0.8 x 4.0

According to norm

Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III
Pollution severity		3	2
		2	2

<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>
Rated impulse voltage	kV	8	8	6

**UL / CUL (Use Group)**

<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>57</b>	<b>57</b>	<b>5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>18-4</b>		

**CSA (Use Group)**

Rated voltage	V	600	600	600
Rated current	A	57	57	5
AWG conductor	AWG	18-4		

**General data**

Type of insulation material		Wemid (PA)
UL 94 flammability rating		V-0
Contact base material		E-Cu
Material of contact surface		
Pin dimensions = d	mm	1.2, Octagonal
Solder eyelet Ø = D	mm	1.7
Solder eyelet Ø tolerance	mm	+ 0,1

**Product data**

IEC: 1000 V / 76 A / 0.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 57 A / AWG 18 - 4



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

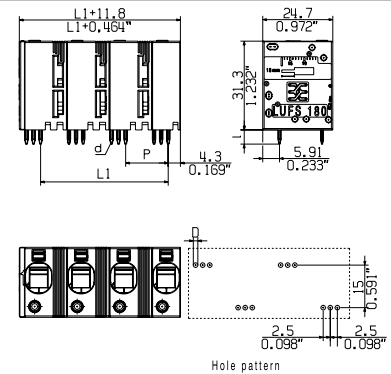
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

**LUF5 15.00/./180V**



**Dimensioned drawing**



**Accessories**

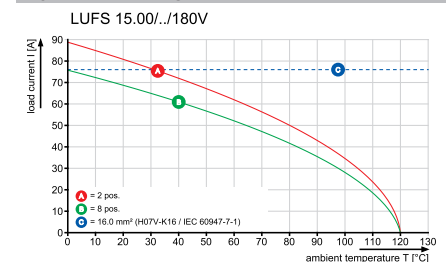
**Note:** Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	<b>9008400000</b>
	SDS 0.8X4.0X100	<b>9008340000</b>
Test plug		
	PS 2.0 MC	<b>0310000000</b>

**Ordering data**

<b>Solder pin length</b>		<b>5 mm</b>		
<b>Colour</b>		<b>Black</b>		
<b>Pitch</b>		<b>15.00 mm</b>		
Pol.	L1	(inch)	Qty.	Order No.
2	15.00	0.590	40	<b>2491820000</b>
3	30.00	1.181	30	<b>2492220000</b>
4	45.00	1.772	25	<b>2492230000</b>
5	60.00	2.362	20	<b>2492240000</b>
6	75.00	2.953	10	<b>2492250000</b>
7	90.00	3.543	10	<b>2492260000</b>
8	105.00	4.134	10	<b>2492270000</b>

**Representative deratings curve**





# OMNIMATE® Power PCB connectors

**OMNIMATE® Power  
PCB connectors**

OMNIMATE® Power

Explanation K.2

OMNIMATE® Power Hybrid

Explanation K.4

Quick selection K.6

Product selection K.8

OMNIMATE® Power IT

Explanation K.46

Quick selection K.50

Product selection K.52

OMNIMATE® Power HP to 2.5 mm<sup>2</sup> / 24 A

Explanation K.76

Quick selection K.80

Product selection K.82

OMNIMATE® Power HP to 6 mm<sup>2</sup> / 41 A

Explanation K.100

Quick selection K.108

Product selection K.110

OMNIMATE® Power HP 16 mm<sup>2</sup> / 76 A

Explanation K.180

Quick selection K.184

Product selection K.186



# OMNIMATE® Power on BOARD

## Integrated connection systems delivering innovative drive applications

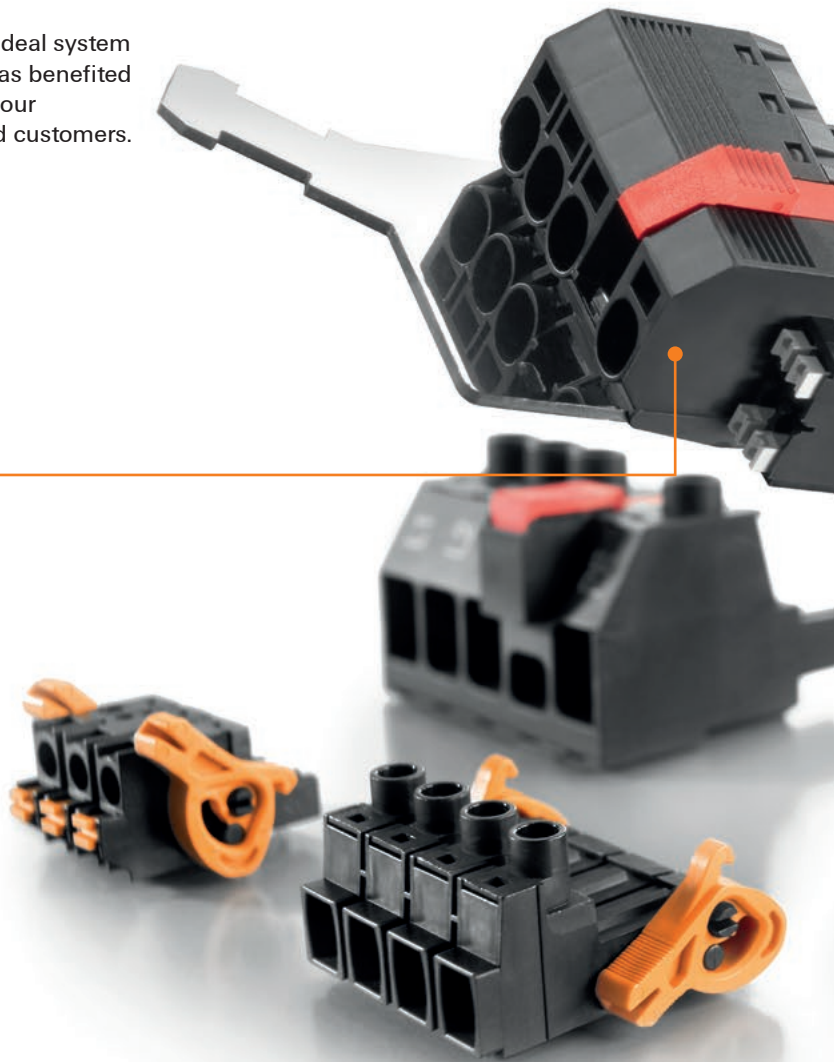
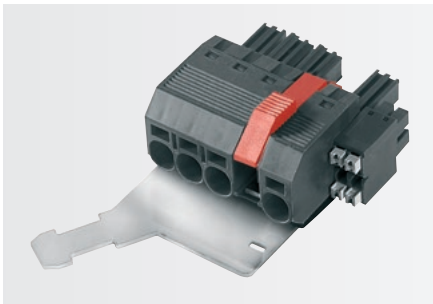
The OMNIMATE® Power system excels in power electronics and drive applications because it has implemented and incorporated customer and market requirements.

Custom-fit connection solutions for power electronics – resulting from the synergy between application-oriented components, individual services and competent design-in support.

The following pages show why OMNIMATE® Power is the ideal system for power electronics and drive applications. This system has benefited from our broader perspective of component directives and our consistent implementation of requests from the market and customers.

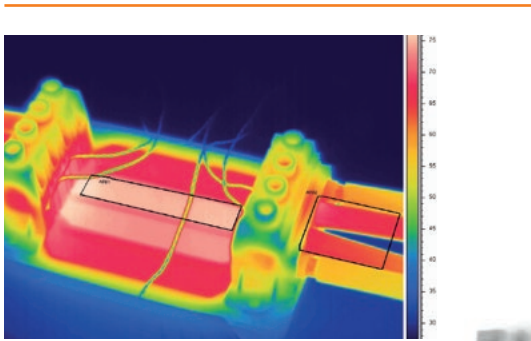
### Performance + Innovation

Designed with future requirements in mind whether for cars or servo-drives: hybrid design concepts create an efficient solution from two distinct elements.



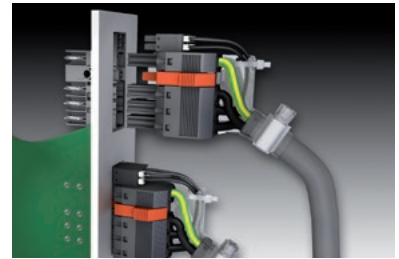
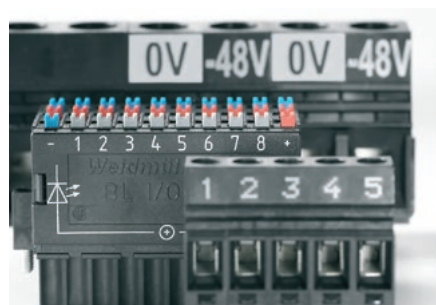
**Performance + Support**

Weidmüller delivers more than just components. Our design-in competence encompassing work from design and implementation to the market release phase delivers the top results.



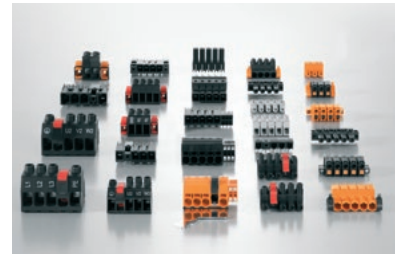
**Performance + Services**

Customised services supplement our comprehensive standard portfolio. The housing colour, printing, coding, contact surfaces, packaging and much more can be configured online with just a few mouse clicks.



**An overview of OMNIMATE® Power**

The single-source solution that omits no necessary components a result of Weidmüller's technology and application expertise delivers the optimal designed-in results. The following pages describe the individual product lines in detail.



**Design-In Services & Support**

The path to top results starts before component selection and does not end with delivery. More information can be found at <http://galaxy.weidmueller.com>



# OMNIMATE® Power BV/SV 7.62HP Hybrid – for power, signals and EMC

## Three functions in one!

The OMNIMATE® Power Hybrid connector provides developers and users with the perfect three-in-one solution.

The hybrid motor connector can simultaneously connect power, signals and a pluggable EMC shield. This allows you to save space on the circuit board, on the outside of the housing and in the electrical cabinet. The self-locking one-handed interlock mechanism requires only one plugging step and thus speeds up installation and maintenance procedures. It is easy to handle and interlocks automatically – even in difficult installation positions. The unique shielding shape with 30° cable entry enables a space savings of up to 10 cm between rows.

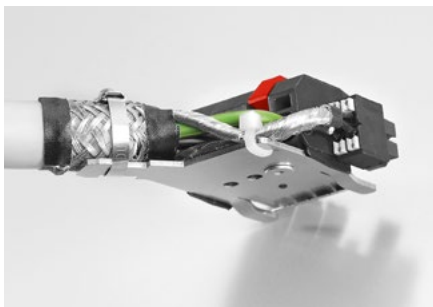
### Unique safety

Safe, EMC-compliant shield connection for any application situation and with no risk of error.



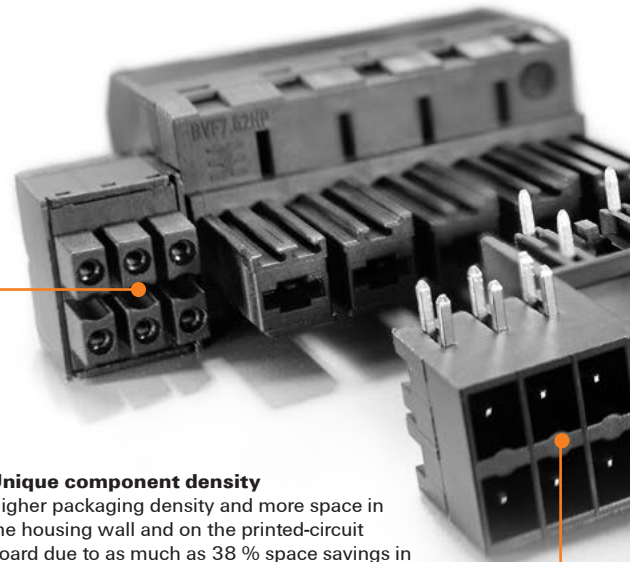
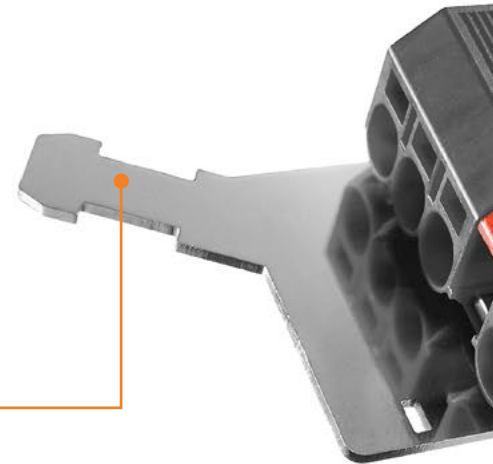
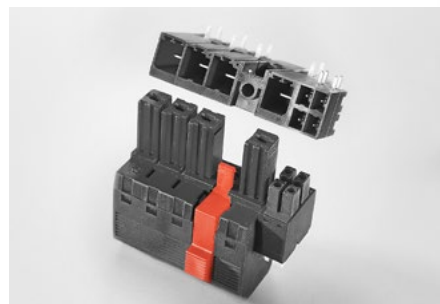
### Unique integration

Three-in-one solution: pluggable shield support, integrated signal contacts, and one-handed security flange.



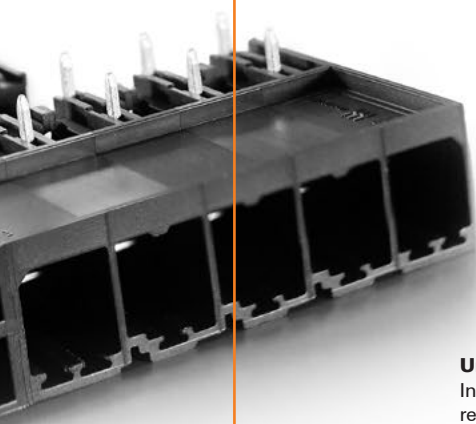
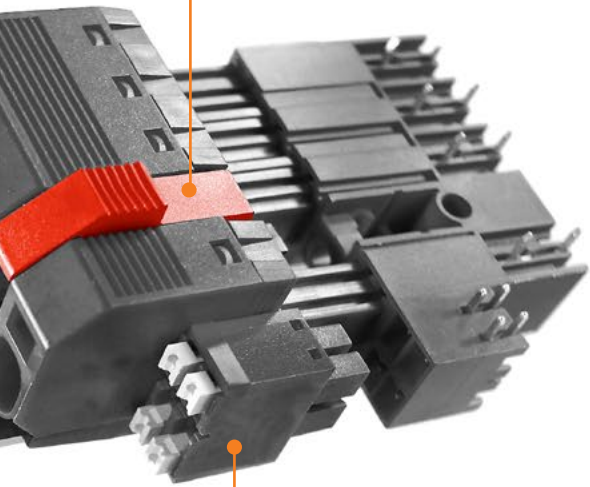
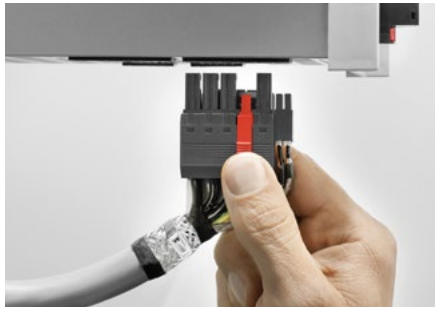
### Unique component density

Higher packaging density and more space in the housing wall and on the printed-circuit board due to as much as 38 % space savings in the construction width.



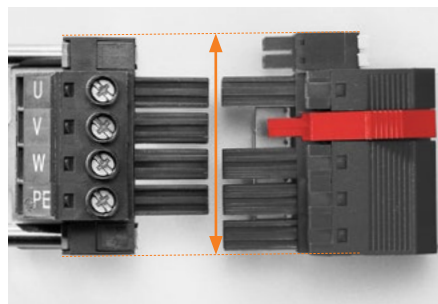
**Unique interaction**

Plug & Work with intuitive handling: featuring tool-free one-handed operation with automatic snap-in and also “blind” plugging of power, signals and shielding simultaneously.



**Unique innovation**

Integrating functions, optimising processes, and reducing complexity: The conventional 2 outer flanges have simply been replaced by 1 middle flange, 4 signal contacts and 1 pluggable shield support.



**EMC in theory and in the real world**

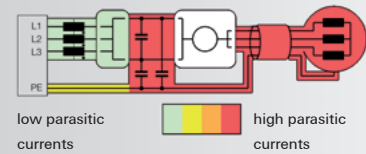
The motor feedback (signal feedback from temperature/encoder) in hybrid, shield-within-shield motor cables is usually made from over-sized power contacts or from disconnected I/O connectors. It also normally requires two separate shield connections. During installation and repairs (replacement), it is possible that the shield terminals could be incorrectly connected, left disconnected or lost. With conventional shielding, it can be quite difficult to tighten the flange screws when the connection is located at a difficult to reach location. So this step is often neglected in the real world.







**Reliably avoiding interferences**

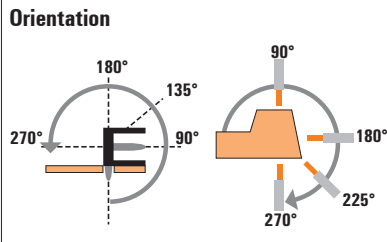
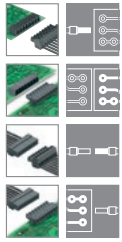
As a result, malfunctions can then be caused by the coupling of electromagnetic fields within the sensitive electronics. The pluggable, hybrid shield support features a special EMC spring-contact strip which ensures that the shield connection to the housing is permanent, vibration-proof and covers a large surface area. It allows the shielding braid from the power and signal wires to be connected separately – and enables this to be done automatically in one step so that it is not dependent on the user.

Topology of parasitic currents



<http://www.OMNIMATE.net>

-  = Wire-to-Board
-  = Board-to-Board
-  = Wire-to-Wire
-  = Board-to-Wire



Hybrid pin header

Hybrid pin header

Solder connection





Solder connection



**BV/SV 7.62 series**



Type	SV-SMT & SC 3.81	SV & SC 3.81	
	Orientation	90° / 270°	90° / 270°
	Flange options	G/MF/MSF	G/MF/MSF
	Product code numbers	IEC: 1000V / 41A UL: 300V / 35A	IEC: 1000V / 41A UL: 200V / 35A

Hybrid female connector	PUSH IN	Type			SV-SMT & SC 3.81		SV & SC 3.81	
		Product	Orientation	Flange options	Product code numbers	Product code numbers		
Hybrid female connector	PUSH IN		<b>BVFL &amp; BC 3.81</b>	180°	(G)/MF/MSF	IEC: 1000V / 41A / 0.2-10mm <sup>2</sup> UL: 600V / 35A / AWG 24-8	<input type="radio"/>	<input type="radio"/>
			<b>BVFL &amp; BC 3.81</b>	180°	(G)/MF/MSF	IEC: 1000V / 41A / 0.2-6mm <sup>2</sup> UL: 600V / 35A / AWG 24-8	<input type="radio"/>	<input type="radio"/>
Hybrid female connector	PUSH IN		<b>BVFL &amp; BC 3.81*</b>	180°	(G)/MF/MSF	IEC: 1000V / 41A / 0.2-10mm <sup>2</sup> UL: 600V / 35A / AWG 24-8	<input type="radio"/>	<input type="radio"/>
			<b>BVFL &amp; BC 3.81*</b>	180°	(G)/MF/MSF	IEC: 1000V / 41A / 0.2-6mm <sup>2</sup> UL: 600V / 35A / AWG 24-8	<input type="radio"/>	<input type="radio"/>

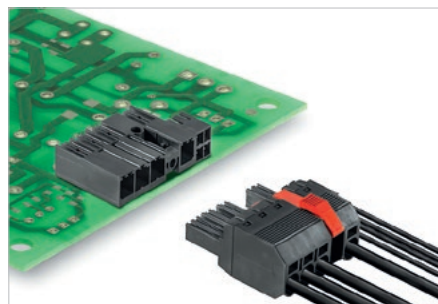
\* pluggable shield support as an accessory or fitted in advance by us

- G** = Closed (without flange)
- MF** = Centre flange for clasp
- MSF** = middle flange with screw and latching hook



**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV-SMT../90 & SC 3.81**



Hybrid male header with 90° outlet direction with power and signal contacts. Fulfills the enhanced requirements for 3 mm of finger safety on 400 V TNC(S) systems in accordance with IEC 61800-5-1 and allows UL approval for 600 V in accordance with UL61800-5-1/UL840. The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Variants: middle flange and middle screw flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Product data**

IEC: 1000 V / 41 A

UL:



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

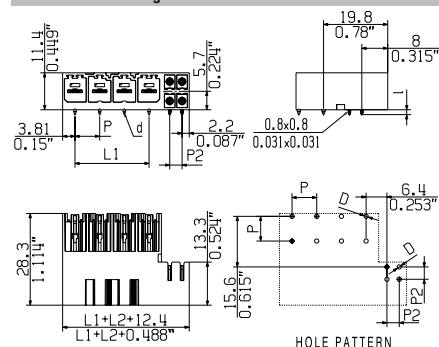
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SV-SMT../90 & SC 3.81**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>

<b>Rated voltage</b>			
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage			
Rated current			
AWG conductor	AWG		

<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000



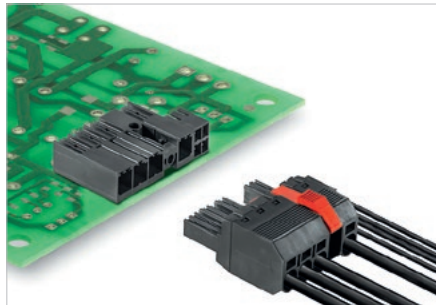
**Ordering data**

Solder pin length		2.6 mm			
Colour		Black			
Pitch		7.62 mm			
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.	
2 / 4	7.62	0.300	3.81	0.150 78	2528950000
2 / 6	7.62	0.300	11.43	0.450 66	2529030000
2 / 8	7.62	0.300	11.43	0.450 60	2529040000
3 / 4	15.24	0.600	3.81	0.150 60	2529050000
3 / 6	15.24	0.600	11.43	0.450 54	2529060000
3 / 8	15.24	0.600	11.43	0.450 48	2529070000
4 / 4	22.86	0.900	3.81	0.150 48	2529080000
4 / 6	22.86	0.900	11.43	0.450 42	2529090000
4 / 8	22.86	0.900	11.43	0.450 42	2529100000
5 / 4	30.48	1.200	3.81	0.150 36	2529110000
5 / 6	30.48	1.200	11.43	0.450 36	2529120000
5 / 8	30.48	1.200	11.43	0.450 30	2529130000



**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV-SMT/..90 & SC 3.81 MF**



Hybrid male header with 90° outlet direction with power and signal contacts. Fulfills the enhanced requirements for 3 mm of finger safety on 400 V TNC(S) systems in accordance with IEC 61800-5-1 and allows UL approval for 600 V in accordance with UL61800-5-1/UL840. The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Variants: middle flange and middle screw flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Product data**

IEC: 1000 V / 41 A  
 UL:



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

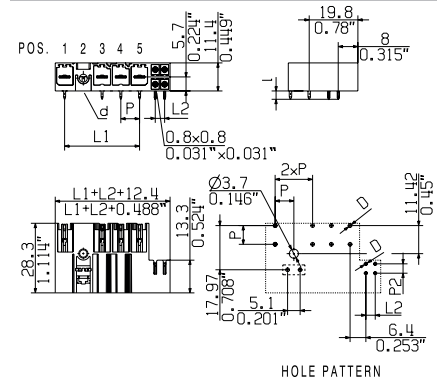
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SV-SMT/..90 & SC 3.81 MF2**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>

<b>Rated voltage</b>			
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>

Rated voltage		
Rated current		
AWG conductor	AWG	-

<b>General data</b>		
Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Copper alloy
Material of contact surface		tinned
Pin dimensions = d	mm	0.8 x 1.0
Solder eyelet Ø = D	mm	1.3
Solder eyelet Ø tolerance	mm	+ 0,1

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000



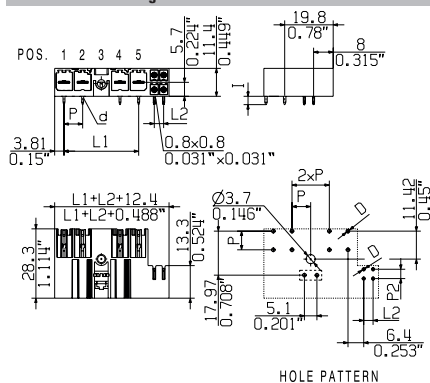
**Ordering data**

Solder pin length		2.6 mm	
Colour		Black	
Pitch		7.62 mm	
Poles	L1 (inch)	L2 (inch)	Qty. Order No.
2 / 4	15.24	0.600 3.81	0.150 60 <b>2529000000</b>
2 / 6	15.24	0.600 7.62	0.300 54 <b>2529720000</b>
2 / 8	15.24	0.600 11.43	0.450 48 <b>2529730000</b>
3 / 4	22.86	0.900 3.81	0.150 48 <b>2529740000</b>
3 / 6	22.86	0.900 7.62	0.300 42 <b>2529750000</b>
3 / 8	22.86	0.900 11.43	0.450 36 <b>2529760000</b>
4 / 4	30.48	1.200 3.81	0.150 36 <b>2626800000</b>
4 / 6	30.48	1.200 7.62	0.300 36 <b>2626850000</b>
4 / 8	30.48	1.200 11.43	0.450 30 <b>2626860000</b>
5 / 4	38.10	1.500 3.81	0.150 30 <b>2626870000</b>
5 / 6	38.10	1.500 7.62	0.300 30 <b>2626880000</b>
5 / 8	38.10	1.500 11.43	0.450 24 <b>2626890000</b>

SV-SMT../90 & SC 3.81 MF3



Dimensioned drawing



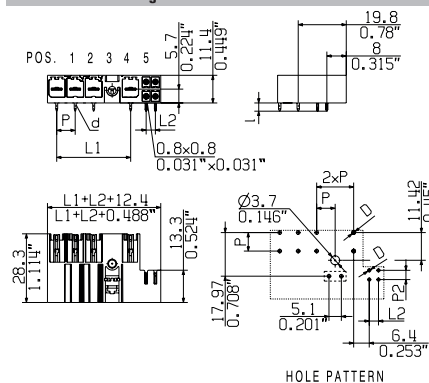
Ordering data

Solder pin length		2.6 mm		
Colour		Black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
3/4	22.86	0.900	3.81 0.150	48 <b>2529770000</b>
3/6	22.86	0.900	7.62 0.300	42 <b>2529780000</b>
3/8	22.86	0.900	11.43 0.450	36 <b>2529790000</b>
4/4	30.48	1.200	3.81 0.150	36 <b>2626900000</b>
4/6	30.48	1.200	7.62 0.300	36 <b>2626910000</b>
4/8	30.48	1.200	11.43 0.450	30 <b>2626920000</b>
5/4	38.10	1.500	3.81 0.150	30 <b>2529830000</b>
5/6	38.10	1.500	7.62 0.300	30 <b>2529840000</b>
5/8	38.10	1.500	11.43 0.450	30 <b>2529850000</b>

SV-SMT../90 & SC 3.81 MF4



Dimensioned drawing

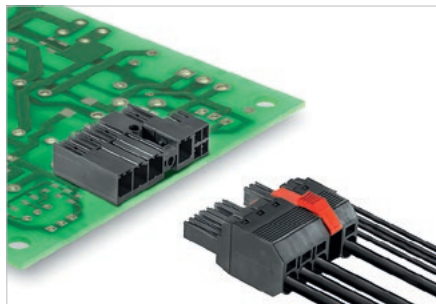


Ordering data

Solder pin length		2.6 mm		
Colour		Black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
4/4	30.48	1.200	3.81 0.150	36 <b>2529800000</b>
4/6	30.48	1.200	7.62 0.300	36 <b>2529810000</b>
4/8	30.48	1.200	11.43 0.450	30 <b>2529820000</b>
5/4	38.10	1.500	3.81 0.150	30 <b>2529860000</b>
5/6	38.10	1.500	7.62 0.300	30 <b>2529870000</b>
5/8	38.10	1.500	11.43 0.450	30 <b>2529880000</b>

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV-SMT/..90 & SC 3.81 MSF**



Hybrid male header with 90° outlet direction with power and signal contacts. Fulfills the enhanced requirements for 3 mm of finger safety on 400 V TNC(S) systems in accordance with IEC 61800-5-1 and allows UL approval for 600 V in accordance with UL61800-5-1/UL840. The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Variants: middle flange and middle screw flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Product data**

IEC: 1000 V / 41 A

UL:



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

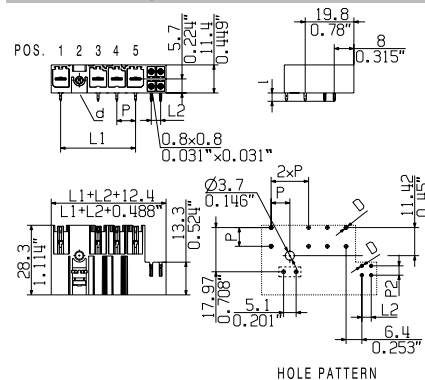
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SV-SMT/..90 & SC 3.81 MSF2**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>			
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage			
Rated current			
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000



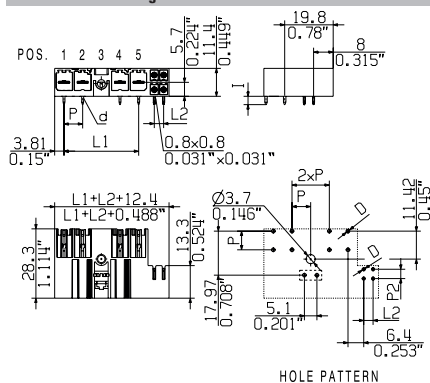
**Ordering data**

Solder pin length		2.6 mm	
Colour		Black	
Pitch		7.62 mm	
Poles	L1 (inch)	L2 (inch)	Qty. Order No.
2 / 4	15.24	0.600 3.81	0.150 60 <b>2529890000</b>
2 / 6	15.24	0.600 7.62	0.300 54 <b>2529900000</b>
2 / 8	15.24	0.600 11.43	0.450 48 <b>2529910000</b>
3 / 4	22.86	0.900 3.81	0.150 48 <b>2529920000</b>
3 / 6	22.86	0.900 7.62	0.300 42 <b>2529930000</b>
3 / 8	22.86	0.900 11.43	0.450 36 <b>2529940000</b>
4 / 4	30.48	1.200 3.81	0.150 36 <b>2626930000</b>
4 / 6	30.48	1.200 7.62	0.300 36 <b>2626940000</b>
4 / 8	30.48	1.200 11.43	0.450 30 <b>2626950000</b>
5 / 4	38.10	1.500 3.81	0.150 30 <b>2626960000</b>
5 / 6	38.10	1.500 7.62	0.300 30 <b>2626970000</b>
5 / 8	38.10	1.500 11.43	0.450 24 <b>2626980000</b>

SV-SMT../90 & SC 3.81 MSF3



Dimensioned drawing



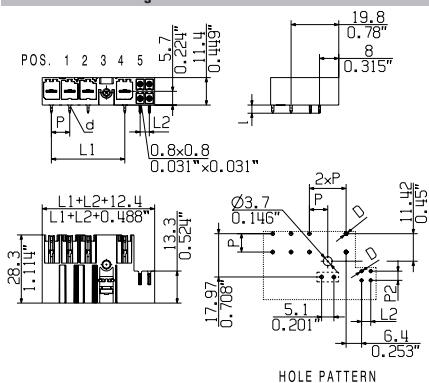
Ordering data

Solder pin length		2.6 mm		
Colour		Black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
3/4	22.86	0.900	3.81 0.150 48	2529950000
3/6	22.86	0.900	7.62 0.300 42	2529960000
3/8	22.86	0.900	11.43 0.450 36	2529970000
4/4	30.48	1.200	3.81 0.150 36	2626990000
4/6	30.48	1.200	7.62 0.300 36	2627000000
4/8	30.48	1.200	11.43 0.450 30	2627050000
5/4	38.10	1.500	3.81 0.150 30	2530010000
5/6	38.10	1.500	7.62 0.300 30	2530020000
5/8	38.10	1.500	11.43 0.450 30	2530030000

SV-SMT../90 & SC 3.81 MSF4



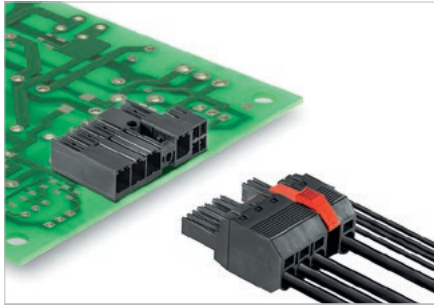
Dimensioned drawing



Ordering data

Solder pin length		2.6 mm		
Colour		Black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
4/4	30.48	1.200	3.81 0.150 36	2529980000
4/6	30.48	1.200	7.62 0.300 36	2529990000
4/8	30.48	1.200	11.43 0.450 30	2530000000
5/4	38.10	1.500	3.81 0.150 30	2530040000
5/6	38.10	1.500	7.62 0.300 30	2530050000
5/8	38.10	1.500	11.43 0.450 30	2530060000

SV-SMT../270 & SC 3.81



Hybrid male header with 270° outlet direction with power and signal contacts. Fulfils the enhanced requirements for 3 mm of finger safety on 400 V TNC(S) systems in accordance with IEC 61800-5-1 and allows UL approval for 600 V in accordance with UL61800-5-1/UL840. The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Variants: middle flange and middle screw flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>

<b>Rated voltage</b>			
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>	-	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>

Rated voltage			
Rated current			
AWG conductor	AWG	-	

<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A  
UL:



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

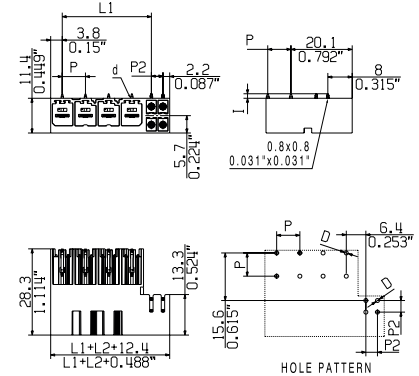
Note:

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SV-SMT../270 & SC 3.81



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

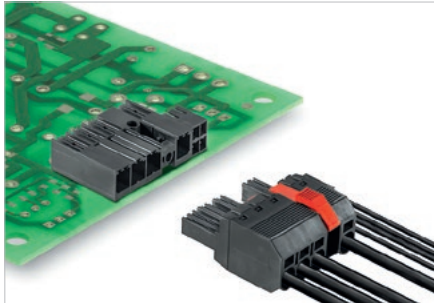
Ordering data

Solder pin length		2.6 mm				
Colour		Black				
Pitch		7.62 mm				
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	7.62	0.300	3.81	0.150	66	2528970000
2 / 6	7.62	0.300	11.43	0.450	66	2529260000
2 / 8	7.62	0.300	11.43	0.450	60	2529270000
3 / 4	15.24	0.600	3.81	0.150	60	2529280000
3 / 6	15.24	0.600	11.43	0.450	54	2529290000
3 / 8	15.24	0.600	11.43	0.450	48	2529300000
4 / 4	22.86	0.900	3.81	0.150	48	2529310000
4 / 6	22.86	0.900	11.43	0.450	42	2529320000
4 / 8	22.86	0.900	11.43	0.450	42	2529330000
5 / 4	30.48	1.200	3.81	0.150	36	2529340000
5 / 6	30.48	1.200	11.43	0.450	36	2529350000
5 / 8	30.48	1.200	11.43	0.450	36	2529360000



**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV-SMT../270 & SC 3.81 MF**



Hybrid male header with 270° outlet direction with power and signal contacts. Fulfils the enhanced requirements for 3 mm of finger safety on 400 V TNC(S) systems in accordance with IEC 61800-5-1 and allows UL approval for 600 V in accordance with UL61800-5-1/UL840. The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Variants: middle flange and middle screw flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Product data**

IEC: 1000 V / 41 A  
 UL:



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

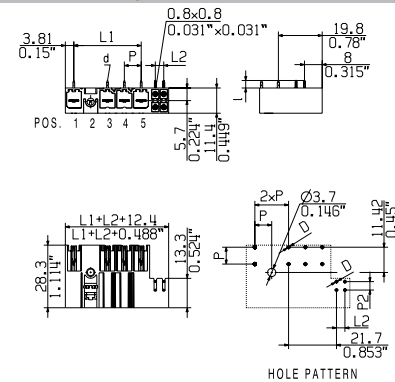
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SV-SMT../270 & SC 3.81 MF2**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>

<b>Rated voltage</b>			
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>

Rated voltage		
Rated current		
AWG conductor	AWG	-

<b>General data</b>		
Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Copper alloy
Material of contact surface		tinned
Pin dimensions = d	mm	0.8 x 1.0
Solder eyelet Ø = D	mm	1.3
Solder eyelet Ø tolerance	mm	+ 0,1

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000



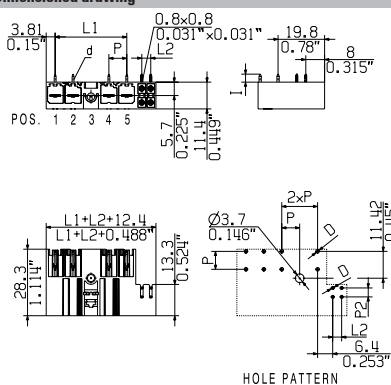
**Ordering data**

<b>Solder pin length</b>	2.6 mm				
<b>Colour</b>	Black				
<b>Pitch</b>	7.62 mm				
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.	
2 / 4	15.24	0.600	3.81 0.150	60	2529010000
2 / 6	15.24	0.600	7.62 0.300	54	2529370000
2 / 8	15.24	0.600	11.43 0.450	48	2529380000
3 / 4	22.86	0.900	3.81 0.150	48	2529390000
3 / 6	22.86	0.900	7.62 0.300	42	2529400000
3 / 8	22.86	0.900	11.43 0.450	36	2529410000
4 / 4	30.48	1.200	3.81 0.150	36	2627060000
4 / 6	30.48	1.200	7.62 0.300	36	2627090000
4 / 8	30.48	1.200	11.43 0.450	30	2627100000
5 / 4	38.10	1.500	3.81 0.150	30	2627110000
5 / 6	38.10	1.500	7.62 0.300	30	2627120000
5 / 8	38.10	1.500	11.43 0.450	24	2627130000

SV-SMT../270 & SC 3.81 MF3



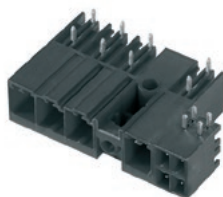
Dimensioned drawing



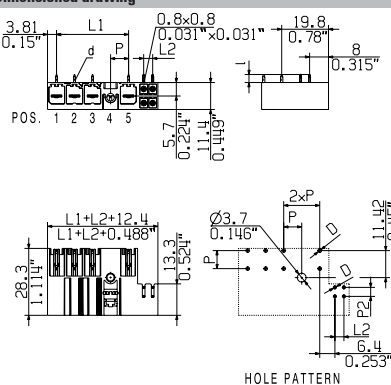
Ordering data

Solder pin length		2.6 mm		
Colour		Black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
3/4	22.86	0.900	3.81 0.150 48	2529420000
3/6	22.86	0.900	7.62 0.300 42	2529430000
3/8	22.86	0.900	11.43 0.450 36	2529440000
4/4	30.48	1.200	3.81 0.150 36	2627140000
4/6	30.48	1.200	7.62 0.300 36	2627150000
4/8	30.48	1.200	11.43 0.450 30	2627160000
5/4	38.10	1.500	3.81 0.150 30	2529480000
5/6	38.10	1.500	7.62 0.300 30	2529490000
5/8	38.10	1.500	11.43 0.450 30	2529500000

SV-SMT../270 & SC 3.81 MF4



Dimensioned drawing

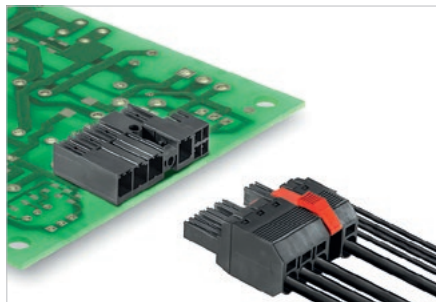


Ordering data

Solder pin length		2.6 mm		
Colour		Black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
4/4	30.48	1.200	3.81 0.150 36	2529450000
4/6	30.48	1.200	7.62 0.300 36	2529460000
4/8	30.48	1.200	11.43 0.450 30	2529470000
5/4	38.10	1.500	3.81 0.150 30	2529510000
5/6	38.10	1.500	7.62 0.300 30	2529520000
5/8	38.10	1.500	11.43 0.450 30	2529530000

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV-SMT../270 & SC 3.81 MSF**



Hybrid male header with 270° outlet direction with power and signal contacts. Fulfils the enhanced requirements for 3 mm of finger safety on 400 V TNC(S) systems in accordance with IEC 61800-5-1 and allows UL approval for 600 V in accordance with UL61800-5-1/UL840. The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Variants: middle flange and middle screw flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>

<b>Rated voltage</b>			
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>

Rated voltage			
Rated current			
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 1000 V / 41 A  
 UL:



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

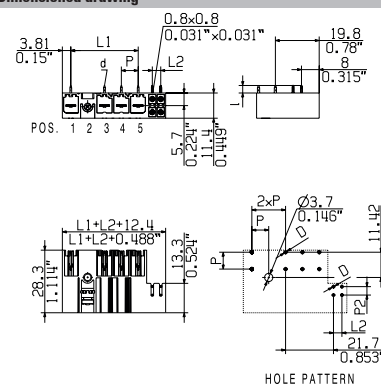
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SV-SMT../270 & SC 3.81 MSF2**



**Dimensioned drawing**



**K**

**7.62**

**270°**

**Accessories**

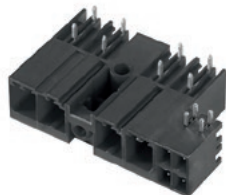
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000

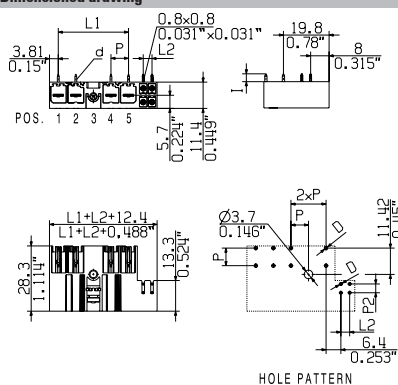
**Ordering data**

Solder pin length		2.6 mm	
Colour		Black	
Pitch		7.62 mm	
Poles	L1 (inch)	L2 (inch)	Qty. Order No.
2 / 4	15.24	0.600 3.81	0.150 60 <b>2529540000</b>
2 / 6	15.24	0.600 7.62	0.300 54 <b>2529550000</b>
2 / 8	15.24	0.600 11.43	0.450 48 <b>2529560000</b>
3 / 4	22.86	0.900 3.81	0.150 48 <b>2529570000</b>
3 / 6	22.86	0.900 7.62	0.300 42 <b>2529580000</b>
3 / 8	22.86	0.900 11.43	0.450 36 <b>2529590000</b>
4 / 4	30.48	1.200 3.81	0.150 36 <b>2627170000</b>
4 / 6	30.48	1.200 7.62	0.300 36 <b>2627180000</b>
4 / 8	30.48	1.200 11.43	0.450 30 <b>2627190000</b>
5 / 4	38.10	1.500 3.81	0.150 30 <b>2627200000</b>
5 / 6	38.10	1.500 7.62	0.300 30 <b>2627210000</b>
5 / 8	38.10	1.500 11.43	0.450 24 <b>2627220000</b>

SV-SMT../270 & SC 3.81 MSF3



Dimensioned drawing



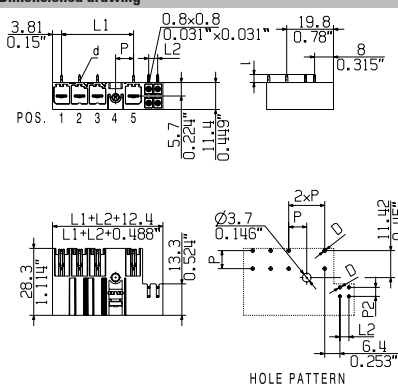
Ordering data

Solder pin length		2.6 mm		
Colour		Black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
3/4	22.86	0.900	3.81 0.150	48 <b>2529600000</b>
3/6	22.86	0.900	7.62 0.300	42 <b>2529610000</b>
3/8	22.86	0.900	11.43 0.450	36 <b>2529620000</b>
4/4	30.48	1.200	3.81 0.150	30 <b>2627230000</b>
4/6	30.48	1.200	7.62 0.300	30 <b>2627240000</b>
4/8	30.48	1.200	11.43 0.450	24 <b>2627250000</b>
5/4	38.10	1.500	3.81 0.150	30 <b>2529660000</b>
5/6	38.10	1.500	7.62 0.300	30 <b>2529670000</b>
5/8	38.10	1.500	11.43 0.450	30 <b>2529680000</b>

SV-SMT../270 & SC 3.81 MSF4



Dimensioned drawing

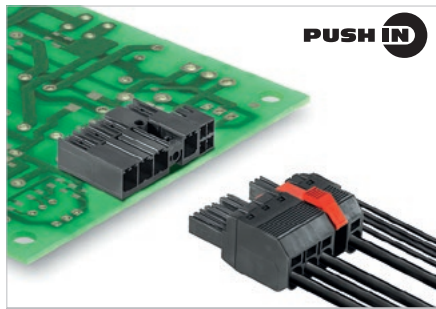


Ordering data

Solder pin length		2.6 mm		
Colour		Black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
4/4	30.48	1.200	3.81 0.150	36 <b>2529630000</b>
4/6	30.48	1.200	7.62 0.300	36 <b>2529640000</b>
4/8	30.48	1.200	11.43 0.450	30 <b>2529650000</b>
5/4	38.10	1.500	3.81 0.150	30 <b>2529690000</b>
5/6	38.10	1.500	7.62 0.300	30 <b>2529700000</b>
5/8	38.10	1.500	11.43 0.450	30 <b>2529710000</b>

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP../90 & SC 3.81**



Hybrid male header with 90° outlet direction with power and signal contacts. Meets the enhanced requirements for 3 mm of touch safety for 400 V TNC(S) systems in acc. with IEC 61800-5-1 and comes with UL approval for 600 V in acc. with UL508-5-1 / UL840.

The self-locking middle flange reduces the space requirements by one pitch width compared to conventional solutions.

Variants: flange, screw flange, middle flange and middle screw flange fastening.

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 35 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

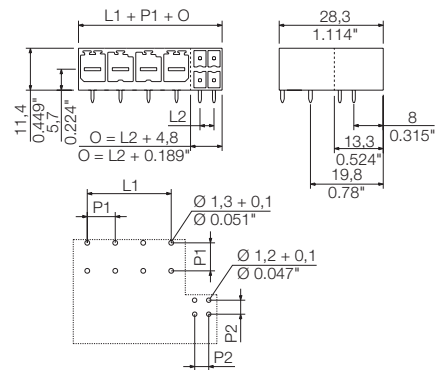
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SV 7.62HP../90 SC../R**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>	-	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	33	33 5
AWG conductor	AWG	-	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

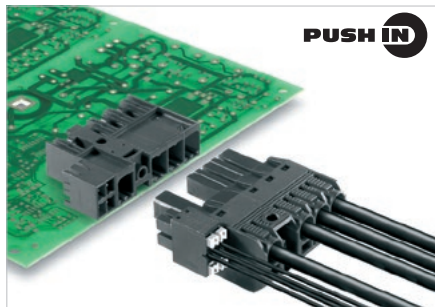
**Ordering data**

Solder pin length		3.5 mm			
Colour		Black			
Pitch		7.62 mm			
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.	
2 / 4	7.62	0.300	3.81 0.150	78	1089840000
2 / 6	7.62	0.300	7.62 0.300	66	1089920000
2 / 8	7.62	0.300	11.43 0.450	60	1157040000
3 / 4	15.24	0.600	3.81 0.150	60	1090040000
3 / 6	15.24	0.600	7.62 0.300	54	1090120000
3 / 8	15.24	0.600	11.43 0.450	48	1157050000
4 / 4	22.86	0.900	3.81 0.150	48	1090280000
4 / 6	22.86	0.900	7.62 0.300	42	1090360000
4 / 8	22.86	0.900	11.43 0.450	42	1157380000
5 / 4	30.48	1.200	3.81 0.150	36	1090520000
5 / 6	30.48	1.200	7.62 0.300	36	1090590000
5 / 8	30.48	1.200	11.43 0.450	30	1157080000



**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP../90 & SC 3.81MF**



**PUSH IN**

Hybrid male header with 90° outlet direction with power and signal contacts. Meets the enhanced requirements for 3 mm of touch safety for 400 V TNC(S) systems in acc. with IEC 61800-5-1 and comes with UL approval for 600 V in acc. with UL508-5-1 / UL840.

The self-locking middle flange reduces the space requirements by one pitch width compared to conventional solutions.

Variants: flange, screw flange, middle flange and middle screw flange fastening.

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 35 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

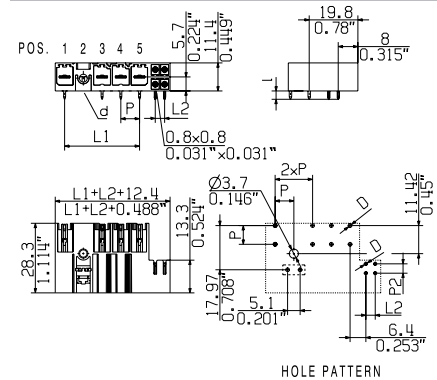
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SV 7.62HP../90MF2. SC../R**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	33	33 5
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000



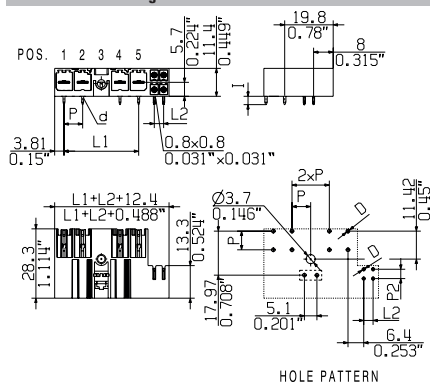
**Ordering data**

Solder pin length		3.5 mm	
Colour		Black	
Pitch 7.62 mm			
Poles	L1 (inch)	L2 (inch)	Qty. Order No.
2 / 4	15.24	0.600	3.81 0.150 60 <b>1089370000</b>
2 / 6	15.24	0.600	7.62 0.300 54 <b>1089410000</b>
2 / 8	15.24	0.600	11.43 0.450 48 <b>1156820000</b>
3 / 4	22.86	0.900	3.81 0.150 48 <b>1156230000</b>
3 / 6	22.86	0.900	7.62 0.300 42 <b>1156240000</b>
3 / 8	22.86	0.900	11.43 0.450 36 <b>1156840000</b>
4 / 4	30.48	1.200	3.81 0.150 36 <b>2627670000</b>
4 / 6	30.48	1.200	7.62 0.300 36 <b>2628150000</b>
4 / 8	30.48	1.200	11.43 0.450 30 <b>2628160000</b>
5 / 4	38.10	1.500	3.81 0.150 30 <b>2628170000</b>
5 / 6	38.10	1.500	7.62 0.300 30 <b>2628180000</b>
5 / 8	38.10	1.500	11.43 0.450 24 <b>2628190000</b>

SV 7.62HP../90MF3. SC../R



Dimensioned drawing



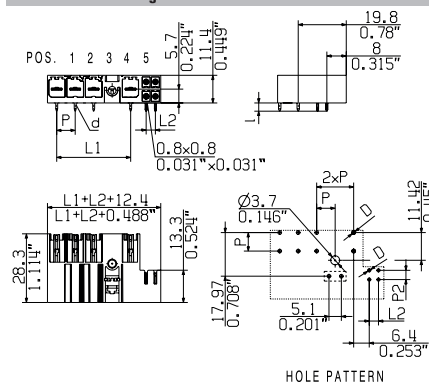
Ordering data

Solder pin length		3.5 mm			
Colour		Black			
Pitch		7.62 mm			
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.	
3/4	22.86	0.900	3.81 0.150	48	1089660000
3/6	22.86	0.900	7.62 0.300	42	1089730000
3/8	22.86	0.900	11.43 0.450	36	1156850000
4/4	30.48	1.200	3.81 0.150	36	2628200000
4/6	30.48	1.200	7.62 0.300	36	2628210000
4/8	30.48	1.200	11.43 0.450	30	2628220000
5/4	38.10	1.500	3.81 0.150	30	1156910000
5/6	38.10	1.500	7.62 0.300	30	1156930000
5/8	38.10	1.500	11.43 0.450	30	1156950000

SV 7.62HP../90MF4. SC../R



Dimensioned drawing

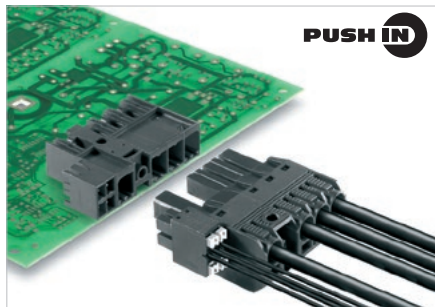


Ordering data

Solder pin length		3.5 mm			
Colour		Black			
Pitch		7.62 mm			
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.	
4/4	30.48	1.200	3.81 0.150	36	1090130000
4/6	30.48	1.200	7.62 0.300	36	1090210000
4/8	30.48	1.200	11.43 0.450	30	1156890000
5/4	38.10	1.500	3.81 0.150	30	1090600000
5/6	38.10	1.500	7.62 0.300	30	1090670000
5/8	38.10	1.500	11.43 0.450	30	1156980000

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP../90 & SC 3.81MSF**



**PUSH IN**

Hybrid male header with 90° outlet direction with power and signal contacts. Meets the enhanced requirements for 3 mm of touch safety for 400 V TNC(S) systems in acc. with IEC 61800-5-1 and comes with UL approval for 600 V in acc. with UL508-5-1 / UL840.

The self-locking middle flange reduces the space requirements by one pitch width compared to conventional solutions.

Variants: flange, screw flange, middle flange and middle screw flange fastening.

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 35 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

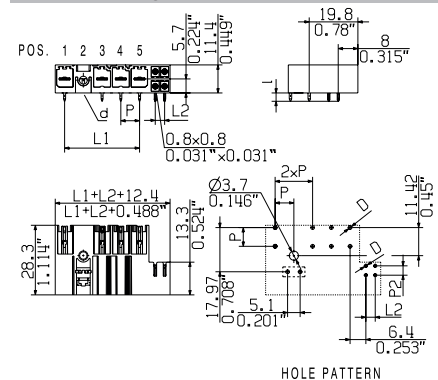
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SV 7.62HP../90MSF2. SC../R**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	33	33 5
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000

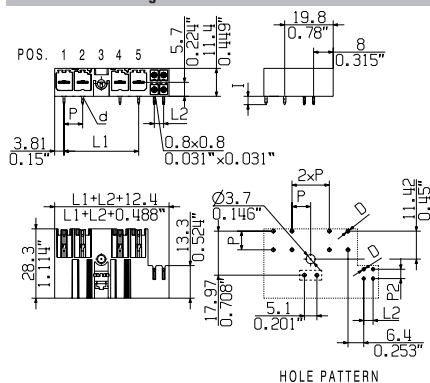
**Ordering data**

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Poles	L1 (inch)	L2 (inch)	Qty. Order No.
2 / 4	15.24	0.600	3.81 0.150 60 <b>1089510000</b>
2 / 6	15.24	0.600	7.62 0.300 54 <b>1089570000</b>
2 / 8	15.24	0.600	11.43 0.450 48 <b>1156830000</b>
3 / 4	22.86	0.900	3.81 0.150 48 <b>1156250000</b>
3 / 6	22.86	0.900	7.62 0.300 42 <b>1156270000</b>
3 / 8	22.86	0.900	11.43 0.450 36 <b>1156870000</b>
4 / 4	30.48	1.200	3.81 0.150 36 <b>2628230000</b>
4 / 6	30.48	1.200	7.62 0.300 36 <b>2628240000</b>
4 / 8	30.48	1.200	11.43 0.450 30 <b>2628250000</b>
5 / 4	38.10	1.500	3.81 0.150 30 <b>2628260000</b>
5 / 6	38.10	1.500	7.62 0.300 30 <b>2628270000</b>
5 / 8	38.10	1.500	11.43 0.450 24 <b>2628280000</b>

SV 7.62HP../90MSF3.SC../R



Dimensioned drawing



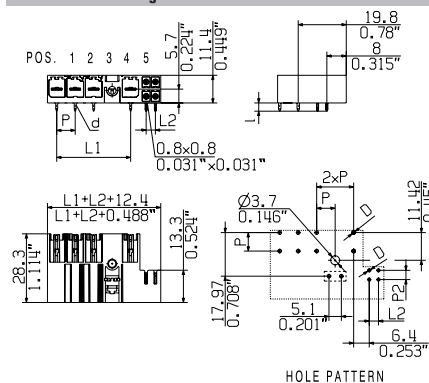
Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
3/4	22.86	0.900	3.81 0.150 48	1089890000
3/6	22.86	0.900	7.62 0.300 42	1089970000
3/8	22.86	0.900	11.43 0.450 36	1156880000
4/4	30.48	1.200	3.81 0.150 36	2628290000
4/6	30.48	1.200	7.62 0.300 36	2628300000
4/8	30.48	1.200	11.43 0.450 30	2628310000
5/4	38.10	1.500	3.81 0.150 30	1157000000
5/6	38.10	1.500	7.62 0.300 30	1157010000
5/8	38.10	1.500	11.43 0.450 30	1157020000

SV 7.62HP../90MSF4.SC../R



Dimensioned drawing

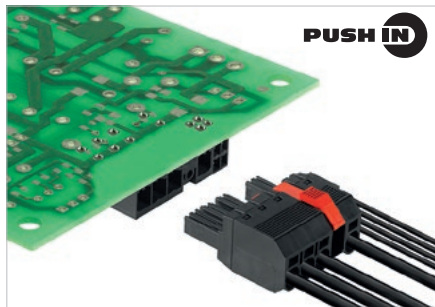


Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
4/4	30.48	1.200	3.81 0.150 36	1090370000
4/6	30.48	1.200	7.62 0.300 36	1090450000
4/8	30.48	1.200	11.43 0.450 30	1156900000
5/4	38.10	1.500	3.81 0.150 30	1090830000
5/6	38.10	1.500	7.62 0.300 30	1090900000
5/8	38.10	1.500	11.43 0.450 30	1157030000

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP../270 & SC 3.81**



Hybrid male header with 270° outlet direction with power and signal contacts. Meets the enhanced requirements for 3 mm of touch safety for 400 V TNC(S) systems in acc. with IEC 61800-5-1 and comes with UL approval for 600 V in acc. with UL508-5-1 / UL840.

The self-locking middle flange reduces the space requirements by one pitch width compared to conventional solutions.

Variants: middle flange and middle screw flange fastening.

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 35 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

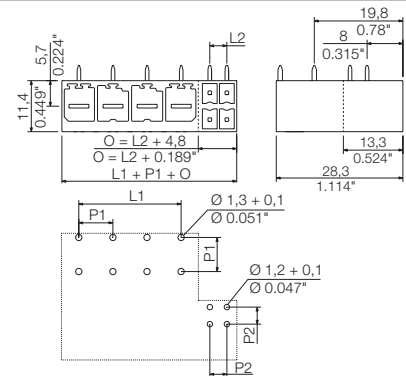
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SV 7.62HP../270 SC../R**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**


Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>

<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	33	33 5
AWG conductor	AWG		

<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000

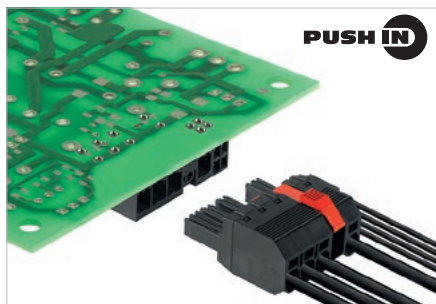
**Ordering data**

Solder pin length		3.5 mm				
Colour		Black				
Pitch		7.62 mm				
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	7.62	0.300	3.81	0.150	78	1090770000
2 / 6	7.62	0.300	7.62	0.300	66	1090850000
2 / 8	7.62	0.300	11.43	0.450	60	1156920000
3 / 4	15.24	0.600	3.81	0.150	60	1090950000
3 / 6	15.24	0.600	7.62	0.300	54	1091010000
3 / 8	15.24	0.600	11.43	0.450	48	1156940000
4 / 4	22.86	0.900	3.81	0.150	48	1091120000
4 / 6	22.86	0.900	7.62	0.300	42	1091160000
4 / 8	22.86	0.900	11.43	0.450	42	1156970000
5 / 4	30.48	1.200	3.81	0.150	36	1091240000
5 / 6	30.48	1.200	7.62	0.300	36	1091260000
5 / 8	30.48	1.200	11.43	0.450	36	1156990000



**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP/./270 & SC 3.81MF**



Hybrid male header with 270° outlet direction with power and signal contacts. Meets the enhanced requirements for 3 mm of touch safety for 400 V TNC(S) systems in acc. with IEC 61800-5-1 and comes with UL approval for 600 V in acc. with UL508-5-1 / UL840.

The self-locking middle flange reduces the space requirements by one pitch width compared to conventional solutions.

Variants: middle flange and middle screw flange fastening.

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 35 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

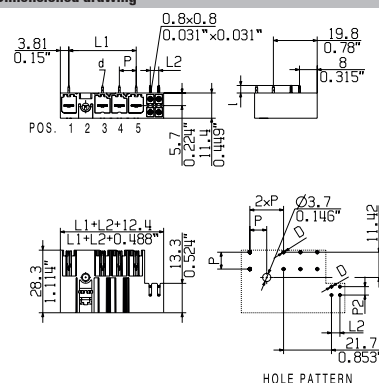
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SV 7.62HP/./270MF2. SC/..R**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	33	33 5
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000



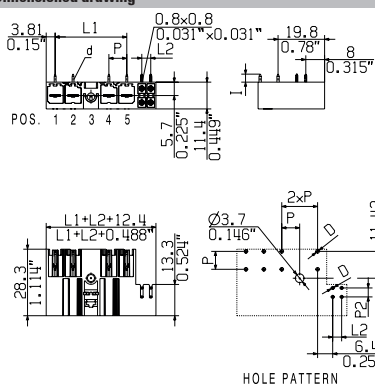
**Ordering data**

Solder pin length		3.5 mm	
Colour		Black	
Pitch 7.62 mm			
Poles	L1 (inch)	L2 (inch)	Qty. Order No.
2 / 4	15.24	0.600	3.81 0.150 60 <b>1089260000</b>
2 / 6	15.24	0.600	7.62 0.300 54 <b>1089280000</b>
2 / 8	15.24	0.600	11.43 0.450 48 <b>1156120000</b>
3 / 4	22.86	0.900	3.81 0.150 48 <b>1156140000</b>
3 / 6	22.86	0.900	7.62 0.300 42 <b>1156150000</b>
3 / 8	22.86	0.900	11.43 0.450 36 <b>1156170000</b>
4 / 4	30.48	1.200	3.81 0.150 36 <b>2627960000</b>
4 / 6	30.48	1.200	7.62 0.300 36 <b>2627970000</b>
4 / 8	30.48	1.200	11.43 0.450 30 <b>2627980000</b>
5 / 4	38.10	1.500	3.81 0.150 30 <b>2627990000</b>
5 / 6	38.10	1.500	7.62 0.300 30 <b>2628000000</b>
5 / 8	38.10	1.500	11.43 0.450 24 <b>2628010000</b>

SV 7.62HP../270MF3. SC/..R



Dimensioned drawing



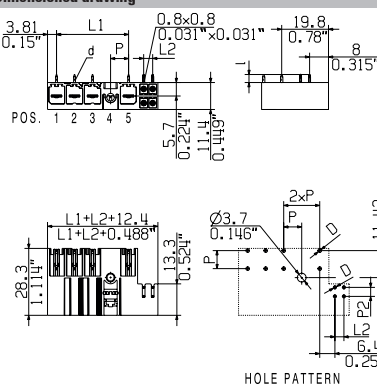
Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
3/4	22.86	0.900	3.81 0.150 48	1089440000
3/6	22.86	0.900	7.62 0.300 42	1089490000
3/8	22.86	0.900	11.43 0.450 36	1156180000
4/4	30.48	1.200	3.81 0.150 36	2628020000
4/6	30.48	1.200	7.62 0.300 36	2628030000
4/8	30.48	1.200	11.43 0.450 30	2628040000
5/4	30.48	1.500	3.81 0.150 30	1156300000
5/6	38.10	1.500	7.62 0.300 30	1156310000
5/8	38.10	1.500	11.43 0.450 30	1156320000

SV 7.62HP../270MF4. SC/..R



Dimensioned drawing

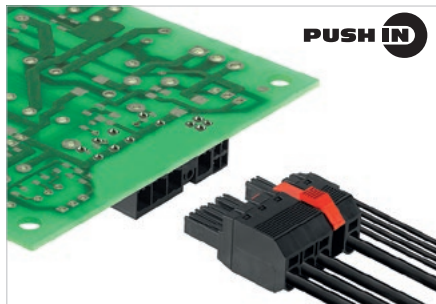


Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
4/4	30.48	0.900	3.81 0.150 36	1089820000
4/6	30.48	1.200	7.62 0.300 36	1089910000
4/8	30.48	1.200	11.43 0.450 30	1156280000
5/4	38.10	1.500	3.81 0.150 30	1090300000
5/6	38.10	1.500	7.62 0.300 30	1090380000
5/8	38.10	1.500	11.43 0.450 30	1156340000

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP../270 & SC 3.81MSF**



Hybrid male header with 270° outlet direction with power and signal contacts. Meets the enhanced requirements for 3 mm of touch safety for 400 V TNC(S) systems in acc. with IEC 61800-5-1 and comes with UL approval for 600 V in acc. with UL508-5-1 / UL840.

The self-locking middle flange reduces the space requirements by one pitch width compared to conventional solutions.

Variants: middle flange and middle screw flange fastening.

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 35 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

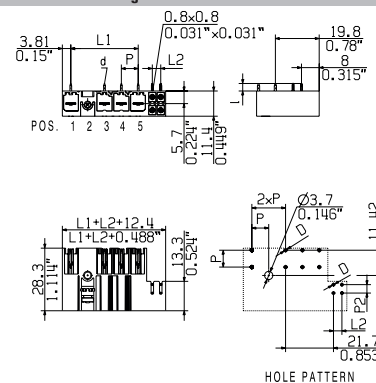
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SV 7.62HP../270MSF2, SC../R**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade			mm
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	33	33 5
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000



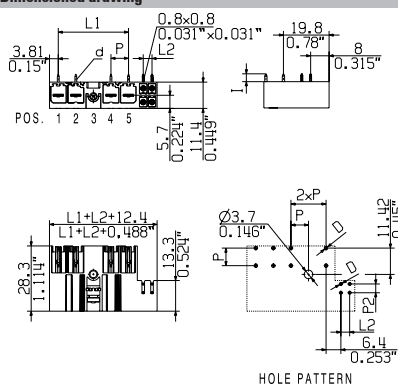
**Ordering data**

<b>Solder pin length</b>	3.5 mm					
<b>Colour</b>	Black					
<b>Pitch</b>	7.62 mm					
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	60	1089340000
2 / 6	15.24	0.600	7.62	0.300	54	1089380000
2 / 8	15.24	0.600	11.43	0.450	48	1156130000
3 / 4	22.86	0.900	3.81	0.150	48	1156190000
3 / 6	22.86	0.900	7.62	0.300	42	1156200000
3 / 8	22.86	0.900	11.43	0.450	36	1156210000
4 / 4	30.48	1.200	3.81	0.150	36	2628050000
4 / 6	30.48	1.200	7.62	0.300	36	2628060000
4 / 8	30.48	1.200	11.43	0.450	30	2628070000
5 / 4	38.10	1.500	3.81	0.150	30	2628080000
5 / 6	38.10	1.500	7.62	0.300	30	2628090000
5 / 8	38.10	1.500	11.43	0.450	24	2628100000

SV 7.62HP../270MSF3. SC/..R



Dimensioned drawing



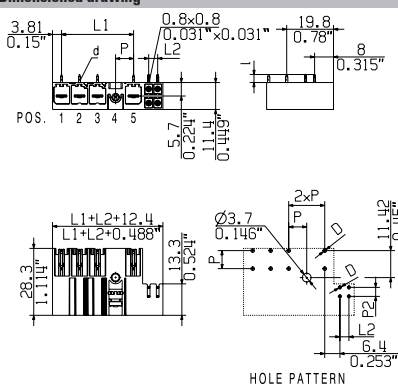
Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
3/4	22.86	0.900	3.81 0.150	48 <b>1089610000</b>
3/6	22.86	0.900	7.62 0.300	42 <b>1089670000</b>
3/8	22.86	0.900	11.43 0.450	36 <b>1156220000</b>
4/4	30.48	1.200	3.81 0.150	36 <b>2628110000</b>
4/6	30.48	1.200	7.62 0.300	36 <b>2628120000</b>
4/8	30.48	1.200	11.43 0.450	30 <b>2628130000</b>
5/4	38.10	1.500	3.81 0.150	30 <b>1156370000</b>
5/6	38.10	1.500	7.62 0.300	30 <b>1156390000</b>
5/8	38.10	1.500	11.43 0.450	30 <b>1156410000</b>

SV 7.62HP../270MSF4. SC/..R



Dimensioned drawing

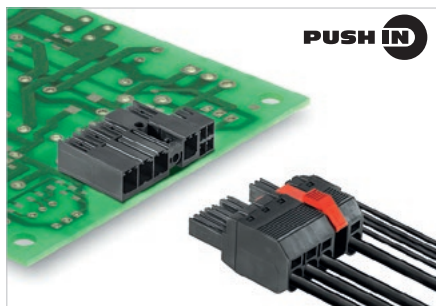


Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.
4/4	30.48	1.200	3.81 0.150	36 <b>1090060000</b>
4/6	30.48	1.200	7.62 0.300	36 <b>1090140000</b>
4/8	30.48	1.200	11.43 0.450	30 <b>1156290000</b>
5/4	38.10	1.500	3.81 0.150	30 <b>1090540000</b>
5/6	38.10	1.500	7.62 0.300	30 <b>1090610000</b>
5/8	38.10	1.500	11.43 0.450	30 <b>1156430000</b>

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVF 7.62HP../180 & BCF 3.81**



**PUSH IN**

Hybrid female plug with power and signal contacts with PUSH IN connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1. The pluggable shield connection establishes a large contact area on the device housing and does not need to be screwed on separately.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...10</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>38</b>	<b>34</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG		24-8
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 38 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

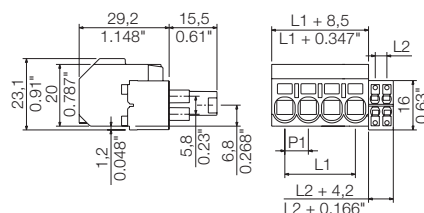
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**BVF 7.62HP../180 BCF../R**



**Dimensioned drawing**



**Accessories**

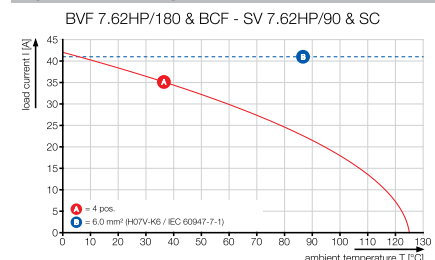
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	<b>1937590000</b>
<b>Screwdriver</b>	
SDS 0.8X4.5X125	<b>9009020000</b>
<b>Crimping tool</b>	
PZ 6/5	<b>9011460000</b>

**Ordering data**

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	7.62	0.300	3.81	0.150	65	<b>1080550000</b>
2 / 6	7.62	0.300	7.62	0.300	55	<b>1080320000</b>
2 / 8	7.62	0.300	11.43	0.450	50	<b>1156440000</b>
3 / 4	15.24	0.600	3.81	0.150	50	<b>1080490000</b>
3 / 6	15.24	0.600	7.62	0.300	45	<b>1080570000</b>
3 / 8	15.24	0.600	11.43	0.450	40	<b>1156450000</b>
4 / 4	22.86	0.900	3.81	0.150	40	<b>1080510000</b>
4 / 6	22.86	0.900	7.62	0.300	35	<b>1080440000</b>
4 / 8	22.86	0.900	11.43	0.450	30	<b>1156470000</b>
5 / 8	30.48	1.200	11.43	0.450	25	<b>1156480000</b>

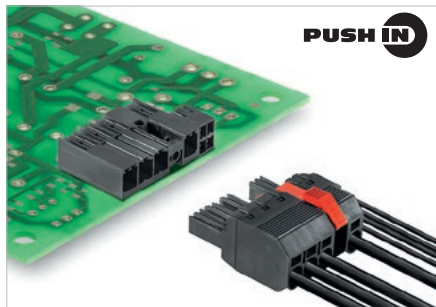
**Representative deratings curve**





**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVF 7.62HP../180MF & BCF 3.81**



Hybrid female plug with power and signal contacts with PUSH IN connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1. The self-fastening middle flange reduces the space requirements by one pole.

The pluggable shield connection establishes a large contact area on the device housing and does not need to be screwed on separately.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...10</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>38</b>	<b>34</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG		24-8
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 38 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

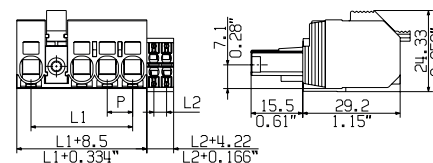
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**BVF 7.62HP../180MF2, BCF../R**



**Dimensioned drawing**



**Accessories**

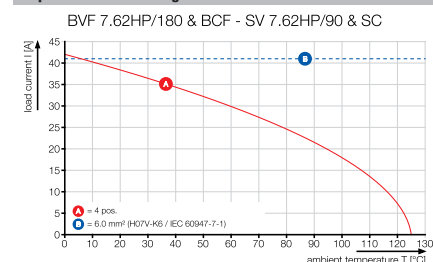
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
<b>Shielding</b>	
BVF 7.62HP SH150 4-6 KIT	1118480000
BVF 7.62HP SH180 4-6 KIT	1118470000
BVF 7.62HP SH210 4-6 KIT	1118490000
<b>Screwdriver</b>	
SDS 0.8X4.5X125	9009020000
<b>Crimping tool</b>	
PZ 6/5	9011460000

**Ordering data**

Solder pin length						
Colour					Black	
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	50	1081610000
2 / 6	15.24	0.600	7.62	0.300	45	1081030000
2 / 8	15.24	0.600	11.43	0.450	40	1157090000
3 / 4	22.86	0.900	3.81	0.150	40	1157110000
3 / 6	22.86	0.900	7.62	0.300	35	1157120000
3 / 8	22.86	0.900	11.43	0.450	30	1157130000
4 / 4	30.48	1.200	3.81	0.150	36	2628320000
4 / 6	30.48	1.200	7.62	0.300	36	2628340000
4 / 8	30.48	1.200	11.43	0.450	30	2628350000
5 / 4	38.10	1.500	3.81	0.150	30	2628390000
5 / 6	38.10	1.500	7.62	0.300	30	2628400000
5 / 8	38.10	1.500	11.43	0.450	24	2628410000

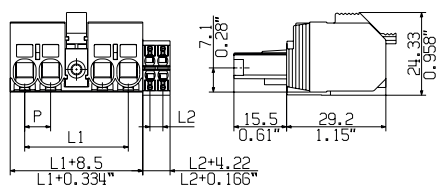
**Representative deratings curve**



**BVF 7.62HP../180MF3. BCF../R**



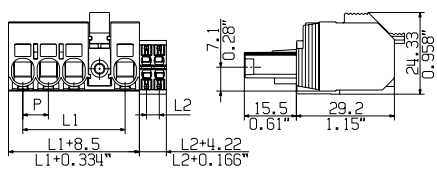
Dimensioned drawing



**BVF 7.62HP../180MF4. BCF../R**



Dimensioned drawing



**Ordering data**

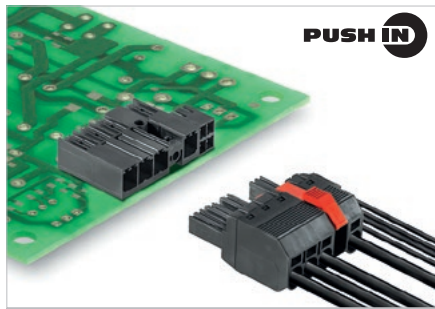
Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
3/4	22.86	0.900	3.81	0.150	40	1081630000
3/6	22.86	0.900	7.62	0.300	35	1081720000
3/8	22.86	0.900	11.43	0.450	30	1157170000
4/4	30.48	1.200	3.81	0.150	36	2628450000
4/6	30.48	1.200	7.62	0.300	36	2628460000
4/8	30.48	1.200	11.43	0.450	30	2628470000
5/4	38.10	1.500	3.81	0.150	25	1157220000
5/6	38.10	1.500	7.62	0.300	25	1157230000
5/8	38.10	1.500	11.43	0.450	25	1157240000

**Ordering data**

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
4/4	30.48	1.200	3.81	0.150	30	1081150000
4/6	30.48	1.200	7.62	0.300	30	1082020000
4/8	30.48	1.200	11.43	0.450	25	1157200000
5/4	38.10	1.500	3.81	0.150	25	1082140000
5/6	38.10	1.500	7.62	0.300	25	1081760000
5/8	38.10	1.500	11.43	0.450	25	1157250000

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVF 7.62HP../180MSF & BCF 3.81**



Hybrid female plug with power and signal contacts with PUSH IN connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1. The self-fastening middle flange reduces the space requirements by one pole.

The pluggable shield connection establishes a large contact area on the device housing and does not need to be screwed on separately.

**Product data**

IEC: 1000 V / 38 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

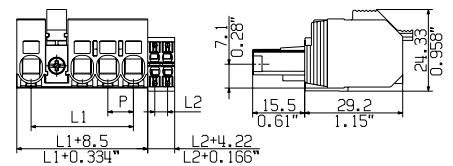
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**BVF 7.62HP../180MSF2. BCF../R**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...10</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>38</b>	<b>34</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG		24-8
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Accessories**

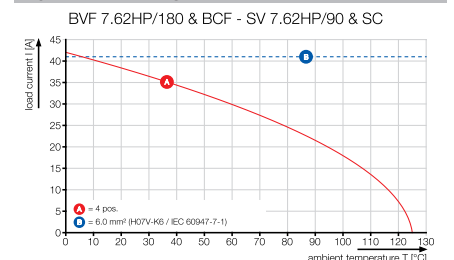
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
<b>Shielding</b>	
BVF 7.62HP SH150 4-6 KIT	1118480000
BVF 7.62HP SH180 4-6 KIT	1118470000
BVF 7.62HP SH210 4-6 KIT	1118490000
<b>Screwdriver</b>	
SDS 0.8x4.5x125	9009020000
<b>Crimping tool</b>	
PZ 6/5	9011460000

**Ordering data**

Solder pin length						
Colour					Black	
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	50	1081930000
2 / 6	15.24	0.600	7.62	0.300	45	1082080000
2 / 8	15.24	0.600	11.43	0.450	40	1157100000
3 / 4	22.86	0.900	3.81	0.150	40	1157440000
3 / 6	22.86	0.900	7.62	0.300	35	1157450000
3 / 8	22.86	0.900	11.43	0.450	30	1157470000
4 / 4	30.48	1.200	3.81	0.150	36	2628510000
4 / 6	30.48	1.200	7.62	0.300	36	2628520000
4 / 8	30.48	1.200	11.43	0.450	30	2628530000
5 / 4	38.10	1.500	3.81	0.150	30	2628570000
5 / 6	38.10	1.500	7.62	0.300	30	2628580000
5 / 8	38.10	1.500	11.43	0.450	24	2628590000

**Representative deratings curve**



**BVF 7.62HP../180MSF3. BCF../R**

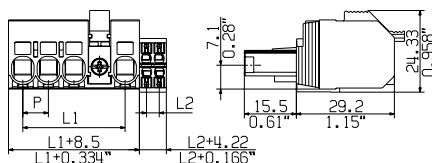
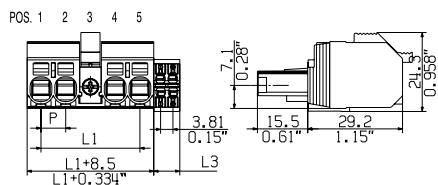


Dimensioned drawing

**BVF 7.62HP../180MSF4. BCF../R**



Dimensioned drawing



**Ordering data**

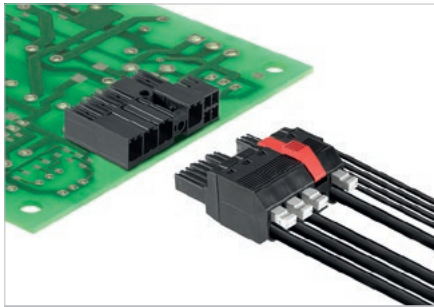
Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
3/4	22.86	0.900	3.81	0.150	40	1082110000
3/6	22.86	0.900	7.62	0.300	35	1081730000
3/8	22.86	0.900	11.43	0.450	30	1157190000
4/4	30.48	1.200	3.81	0.150	36	2628630000
4/6	30.48	1.200	7.62	0.300	36	2628640000
4/8	30.48	1.200	11.43	0.450	30	2628650000
5/4	38.10	1.500	3.81	0.150	25	1157270000
5/6	38.10	1.500	7.62	0.300	25	1157280000
5/8	38.10	1.500	11.43	0.450	25	1157290000

**Ordering data**

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
4/4	30.48	1.200	3.81	0.150	30	1081660000
4/6	30.48	1.200	7.62	0.300	30	1081750000
4/8	30.48	1.200	11.43	0.450	25	1157210000
5/4	38.10	1.500	3.81	0.150	25	1080940000
5/6	38.10	1.500	7.62	0.300	25	1080720000
5/8	38.10	1.500	11.43	0.450	25	1157300000

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVFL 7.62HP../180 BCF 3.81**



Hybrid female connector with power and signal contacts and adjustable actuator (pusher) featuring PUSH IN spring connection technology. Enables simultaneous connection of power, signals and shielding. Ideal for connecting servo and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement guarantees more than 3 mm of touch-safety in accordance with IEC 61800-5-1. The snap-on middle flange decreases the space required by one pitch width.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>38</b>	<b>34</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	II
Pollution severity		3	2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000</b>
Rated impulse voltage	kV	8	6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C</b>
Rated voltage	V	600	600
Rated current	A	33	5
AWG conductor	AWG	24-8	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 38 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

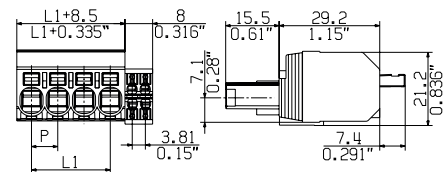
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request

**BVFL 7.62HP../180 BCF 3.81**



**Dimensioned drawing**



**Accessories**

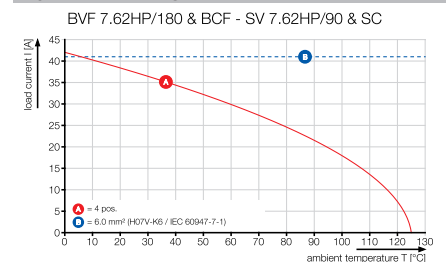
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
<b>Shielding</b>	
BVF 7.62HP SH150 4-6 KIT	1118480000
BVF 7.62HP SH180 4-6 KIT	1118470000
BVF 7.62HP SH210 4-6 KIT	1118490000
<b>Screwdriver</b>	
SDS 0.8X4.5X125	9009020000
<b>Crimping tool</b>	
PZ 6/5	9011460000

**Ordering data**

Solder pin length						
Colour					Black	
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	7.62	0.300	3.81	0.150	78	2549310000
3 / 4	15.24	0.600	3.81	0.150	45	2549400000
3 / 6	15.24	0.600	7.62	0.300	40	2549410000
3 / 8	15.24	0.600	11.43	0.450	35	2549420000
4 / 4	22.86	0.900	3.81	0.150	48	1547560000
4 / 6	30.48	1.200	7.62	0.300	35	2549430000
4 / 8	30.48	1.200	11.43	0.450	30	2549440000
5 / 4	30.48	1.200	3.81	0.150	30	2549450000

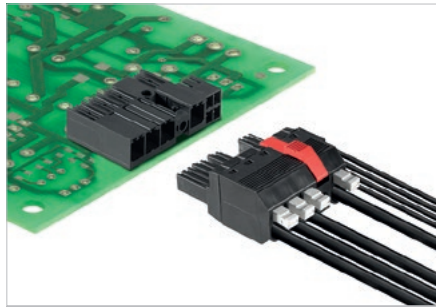
**Representative deratings curve**





**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVFL 7.62HP../180 BCF 3.81**



Hybrid female connector with power and signal contacts and adjustable actuator (pusher) featuring PUSH IN spring connection technology. Enables simultaneous connection of power, signals and shielding. Ideal for connecting servo and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement guarantees more than 3 mm of touch-safety in accordance with IEC 61800-5-1. The snap-on middle flange decreases the space required by one pitch width.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>38</b>	<b>34</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG		24-8
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 38 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

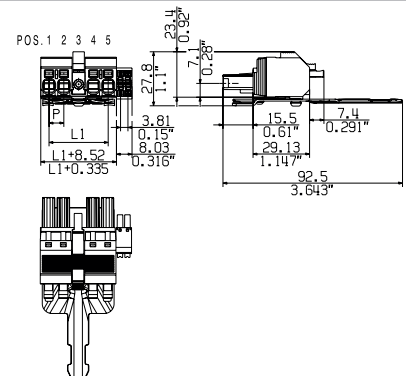
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**BVFL 7.62HP../180 BCF 3.81 MF SO**



**Dimensioned drawing**



**Ordering data**

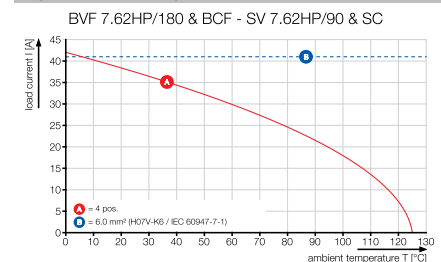
Solder pin length						
Colour						Black
Pitch		7.62 mm				
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
4 / 4	30.48	1.200	3.81	0.150	20	2427960000

**Accessories**

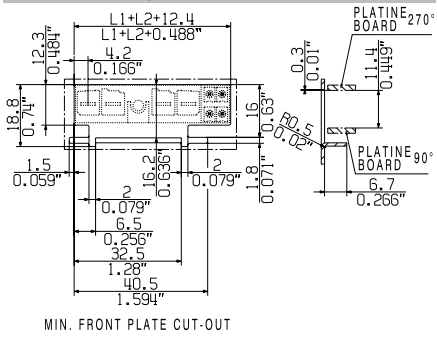
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
<b>Crimping tool</b>	
PZ 6/5	9011460000
<b>Screwdriver</b>	
SDS 0.6X3.5X100	9008330000
SCT 4_6/127 C	1699800000
WSM TOOL AUTOMATIK	1774470000

**Representative deratings curve**

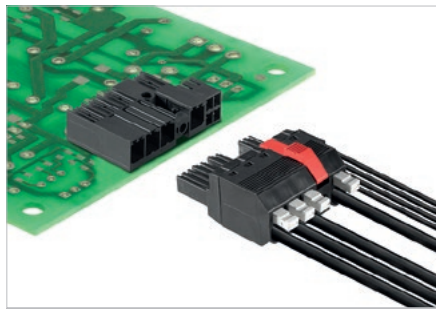


Dimensioned drawing



**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVFL 7.62HP/./180 BCF 3.81 MF**



Hybrid female connector with power and signal contacts and adjustable actuator (pusher) featuring PUSH IN spring connection technology. Enables simultaneous connection of power, signals and shielding. Ideal for connecting servo and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement guarantees more than 3 mm of touch-safety in accordance with IEC 61800-5-1. The snap-on middle flange decreases the space required by one pitch width.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

**Product data**

IEC: 1000 V / 38 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

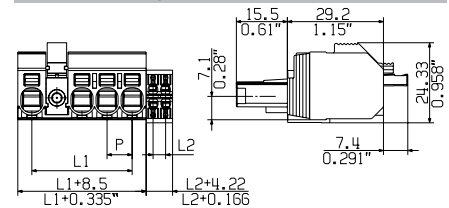
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request
- MFx and MSFx: X= Position of the middle flange e.g. MF2, MSF3

**BVFL 7.62HP/./180 BCF 3.81 MF2**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>38</b>	<b>34</b>
At ambient temperature	20°C		40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG		24-8
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Accessories**

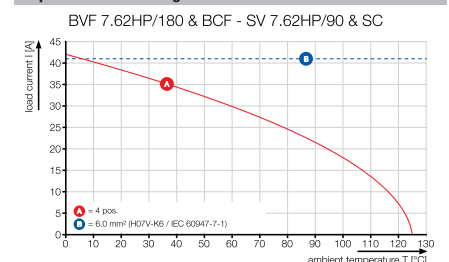
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
<b>Shielding</b>		
	BVF 7.62HP SH150 4-6 KIT	1118480000
	BVF 7.62HP SH180 4-6 KIT	1118470000
	BVF 7.62HP SH210 4-6 KIT	1118490000
<b>Crimping tool</b>		
	PZ 6/5	9011460000
<b>Screwdriver</b>		
	SDS 0.6X3.5X100	9008330000
	SDS 0.8X4.5X125	

**Ordering data**

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	36	2549320000
2 / 6	15.24	0.600	7.62	0.300	36	2628330000
2 / 8	15.24	0.600	11.43	0.450	40	2628690000
3 / 4	22.86	0.900	3.81	0.150	40	2628720000
3 / 6	22.86	0.900	7.62	0.300	35	2628730000
3 / 8	22.86	0.900	11.43	0.450	30	2628740000
4 / 4	30.48	1.200	3.81	0.150	30	2628780000
4 / 6	30.48	1.200	7.62	0.300	30	2628790000
4 / 8	30.48	1.200	11.43	0.450	25	2628800000
5 / 4	38.10	1.500	3.81	0.150	25	2628840000
5 / 6	38.10	1.500	7.62	0.300	25	2628850000
5 / 8	38.10	1.500	11.43	0.450	20	2628860000

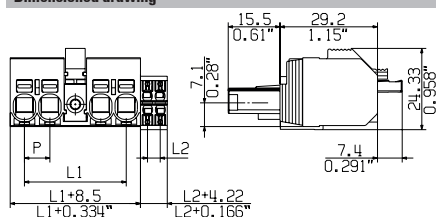
**Representative deratings curve**



**BVFL 7.62HP../180 BCF 3.81 MF3**



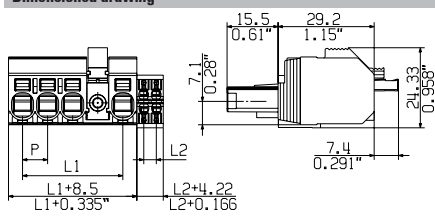
Dimensioned drawing



**BVFL 7.62HP../180 BCF 3.81 MF4**



Dimensioned drawing



**Ordering data**

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
3/4	22.86	0.900	3.81	0.150	28	2549460000
3/6	22.86	0.900	7.62	0.300	28	2549470000
3/8	22.86	0.900	11.43	0.450	24	2549480000
4/4	30.48	1.200	3.81	0.150	30	2628900000
4/6	30.48	1.200	7.62	0.300	30	2628910000
4/8	30.48	1.200	11.43	0.450	25	2628920000
5/4	38.10	1.500	3.81	0.150	30	2628960000
5/6	38.10	1.500	7.62	0.300	25	2628970000
5/8	38.10	1.500	11.43	0.450	25	2628980000

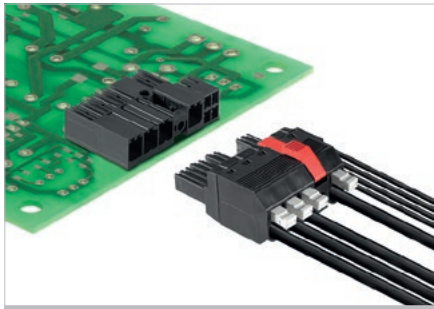
**Ordering data**

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
4/4	30.48	1.200	3.81	0.150	24	1547590000
4/6	30.48	1.200	7.62	0.300	24	2549490000
4/8	30.48	1.200	11.43	0.450	20	2549500000
5/4	38.10	1.500	3.81	0.150	20	2549510000
5/6	38.10	1.500	7.62	0.300	20	2549520000
5/8	38.10	1.500	11.43	0.450	20	2549530000

Additional pole combinations on request

**Connectors in 7.62 mm pitch**  
**Series BV/SV 7.62 - connection up to 6 mm<sup>2</sup>**

**BVFL 7.62HP/./180 BCF 3.81 MSF**



Hybrid female connector with power and signal contacts and adjustable actuator (pusher) featuring PUSH IN spring connection technology. Enables simultaneous connection of power, signals and shielding. Ideal for connecting servo and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement guarantees more than 3 mm of touch-safety in accordance with IEC 61800-5-1. The snap-on middle flange decreases the space required by one pitch width.

The pluggable shield connection has a wide contact area on the device housing and does not need to be bolted.

**Product data**

IEC: 1000 V / 38 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

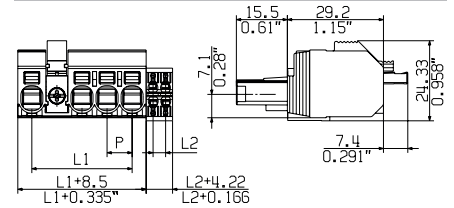
**Note:**

- Technical specifications refer to the power contacts
- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request
- MF2 and MSFX: X= Position of the middle flange e.g. MF2, MSFX3

**BVFL 7.62HP/./180 BCF 3.81 MSF2**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>38</b>	<b>34</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG		24-8
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Accessories**

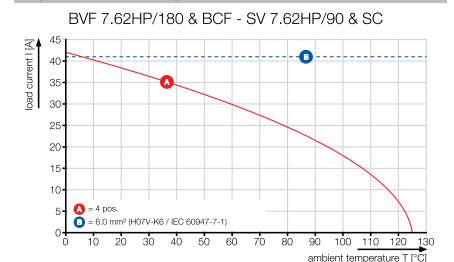
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	<b>1937590000</b>
<b>Shielding</b>	
BVF 7.62HP SH150 4-6 KIT	<b>1118480000</b>
BVF 7.62HP SH180 4-6 KIT	<b>1118470000</b>
BVF 7.62HP SH210 4-6 KIT	<b>1118490000</b>
<b>Crimping tool</b>	
PZ 6/5	<b>9011460000</b>
<b>Screwdriver</b>	
SDS 0.6X3.5X100	<b>9008330000</b>
SDS 0.8X4.5X125	

**Ordering data**

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	36	<b>2549330000</b>
2 / 6	15.24	0.600	7.62	0.300	45	<b>2629020000</b>
2 / 8	15.24	0.600	11.43	0.450	40	<b>2629030000</b>
3 / 4	22.86	0.900	3.81	0.150	35	<b>2629060000</b>
3 / 6	22.86	0.900	7.62	0.300	30	<b>2629070000</b>
3 / 8	22.86	0.900	11.43	0.450	40	<b>2629080000</b>
4 / 4	30.48	1.200	3.81	0.150	30	<b>2629120000</b>
4 / 6	30.48	1.200	7.62	0.300	25	<b>2629130000</b>
4 / 8	30.48	1.200	11.43	0.450	30	<b>2629140000</b>
5 / 4	38.10	1.500	3.81	0.150	25	<b>2629180000</b>
5 / 6	38.10	1.500	7.62	0.300	20	<b>2629190000</b>
5 / 8	38.10	1.500	11.43	0.450	25	<b>2629200000</b>

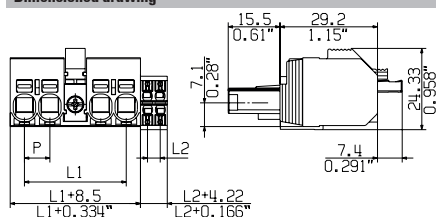
**Representative deratings curve**



**BVFL 7.62HP../180 BCF 3.81 MSF3**



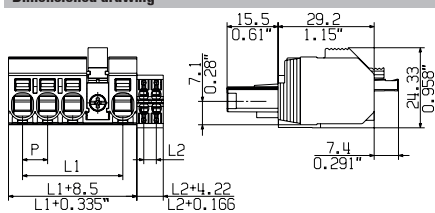
Dimensioned drawing



**BVFL 7.62HP../180 BCF 3.81 MSF4**



Dimensioned drawing



**Ordering data**

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
3/4	22.86	0.900	3.81	0.150	28	2549540000
3/6	22.86	0.900	7.62	0.300	28	2549550000
3/8	22.86	0.900	11.43	0.450	24	2549560000
4/4	30.48	1.200	3.81	0.150	30	2629240000
4/6	30.48	1.200	7.62	0.300	30	2629250000
4/8	30.48	1.200	11.43	0.450	25	2629260000
5/4	38.10	1.500	3.81	0.150	25	2629300000
5/6	38.10	1.500	7.62	0.300	25	2629310000
5/8	38.10	1.500	11.43	0.450	25	2629320000

**Ordering data**

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
4/4	30.48	1.200	3.81	0.150	42	1547600000
4/6	30.48	1.200	7.62	0.300	24	2549570000
4/8	30.48	1.200	11.43	0.450	20	2549580000
5/4	38.10	1.500	3.81	0.150	20	2549590000
5/6	38.10	1.500	7.62	0.300	20	2549600000
5/8	38.10	1.500	11.43	0.450	20	2549610000

Additional pole combinations on request

# OMNIMATE® Power for IT systems - scalable from 25 A to 76 A

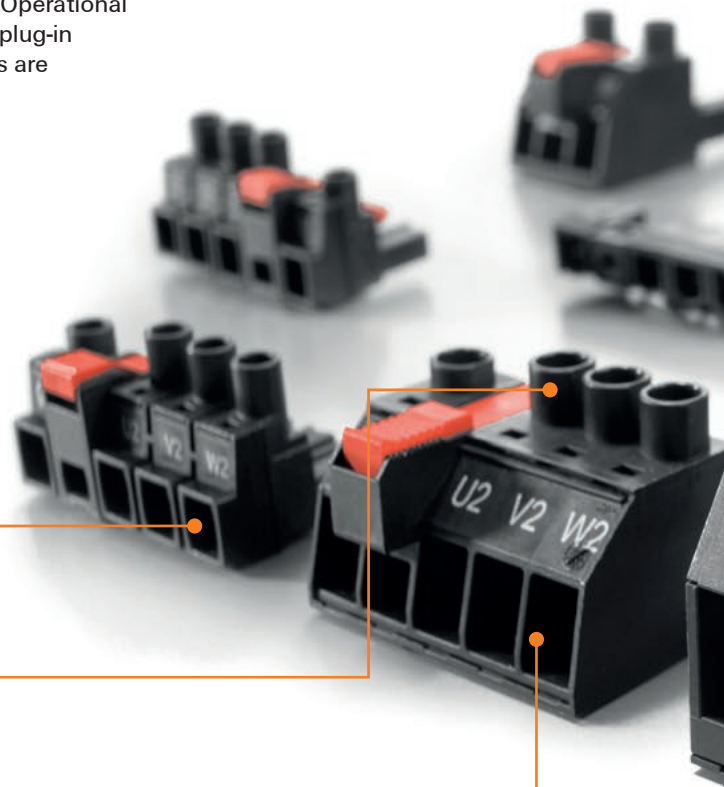
## Custom-fit solutions for special requirements

**Increased compliance with standards and fewer compromises: OMNIMATE® Power for IT systems establishes a new level of excellence with its standard integrated details. These attributes streamline the design-in and approval processes and result in safer operations.**

Results for the application and advantages for the user: unlimited use in 400-V IT systems and touch safety according to IEC 61800-5-1 (+ 5 mm). The self-snapping one-handed safety flange enables intuitive and safe usage. Operational reliability is guaranteed by the automatic interlock feature during the plug-in process. The application-oriented design means that no compromises are necessary during the approval process.

### Uncompromised scalability

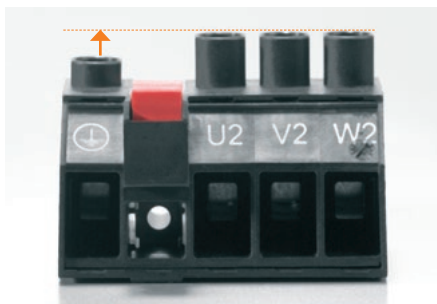
As much power as required, as little cost as needed: a device series for every power level and power type: scalable from 25 A/2.5 mm<sup>2</sup> to 41 A/6 mm<sup>2</sup> to 76 A/16 mm<sup>2</sup>.



K

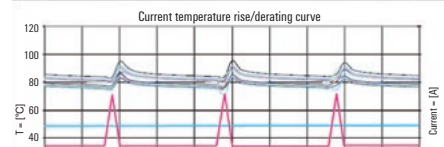
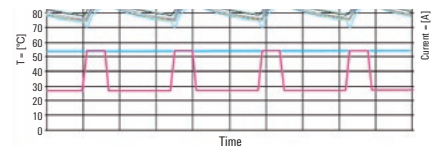
### IEC 61800-5-1 approval

No additional measures or compromises in the system suitable, touch-safe certification according to IEC 61800-5-1:  
+ 3.0 mm for 400 V TN systems,  
+ 5.5 mm for 400 V IT networks.



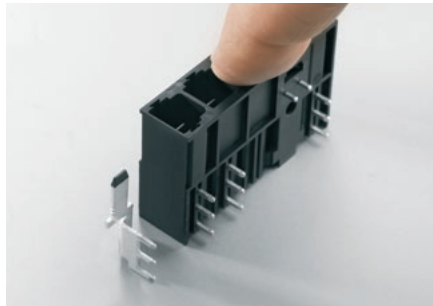
### Uncompromised power capabilities

Uncompromised means high power reserves for superior overload capacity even under the high ambient temperatures of real-world applications.

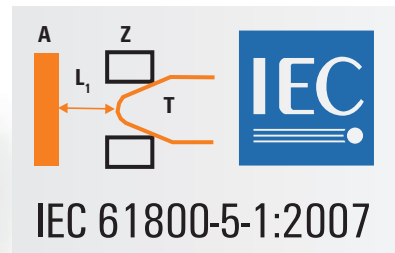


**Uncompromised safety**

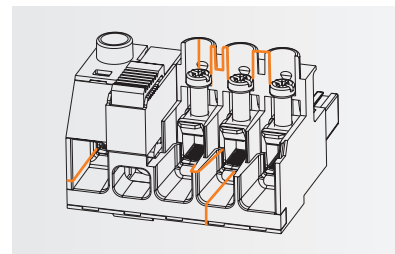
Details such as insulated contact tips that ensure the pin header is touch-safe and automatic snap-in for a secure interlocking connection.

**Finger safety according to DIN EN 61800-5-1**

Since the end of 2007, device approval according to IEC Directive "Adjustable speed electrical power drive systems – Part 5-1: Safety requirements" requires that – regardless of the line-to-earth voltage – an additional finger safety interval exists (for example, + 3 mm for 400 V-TN systems (wire-to-earth voltage = 230 V), or + 5.5 mm for 400-V IT systems (wire-to-earth voltage up to 400 V in event of error)). An additional cover is required if the connection system, as a device section, does not fulfil these requirements. The OMNIMATE® Power HP product line already complies with the stricter IEC requirements for additional touch protection.

**Clearance and creepage distances, acc. to UL**

A 600-V connector must have the approval of the UL 1059 component directive – but the potential installation situations must first be taken into consideration. This allows you to avoid making approval compromises – such as UL 508C or incorporating complex additions such as coatings or protective hoods. The OMNIMATE® Power HP product line already complies with the UL requirements for 600-V creepage and clearance distances.

**UL approval without compromise**

No limitation for UL approval with 600-V applications: with optimised creepage and clearance distance even under difficult installation situations.

600 V

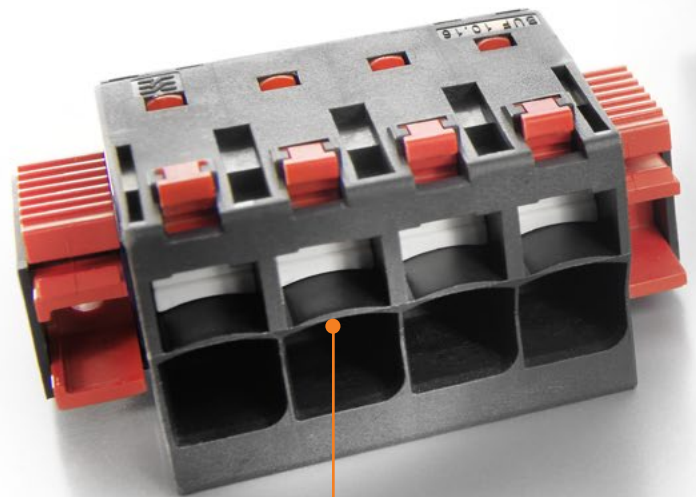
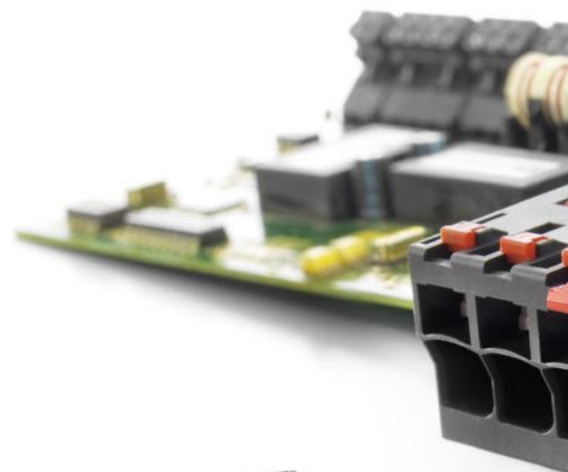


# Secure and efficient connection of power electronics devices

## PUSH IN connector with wire-ready function

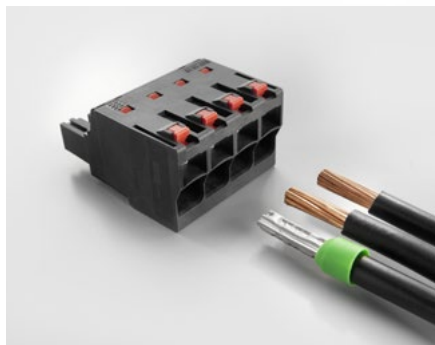
High power applications necessitate connection by wires with huge cross sections, which are typically inflexible. Large PUSH IN connections are therefore difficult to plug in. Special tools are often needed for installation in narrow areas or for wiring with flexible wires without ferrules.

BUF 10.16 facilitates and accelerates this process and does not require additional tools. The operating lever which can be locked in the open position (pusher) makes it possible to insert conductors with short cladding or rigid insulation into the open terminal. This means that the proven PUSH IN function remains unrestricted while the terminal point, fixed in an open position, allows a comfortable and easy connection under difficult conditions. The result is a noticeable saving of time.



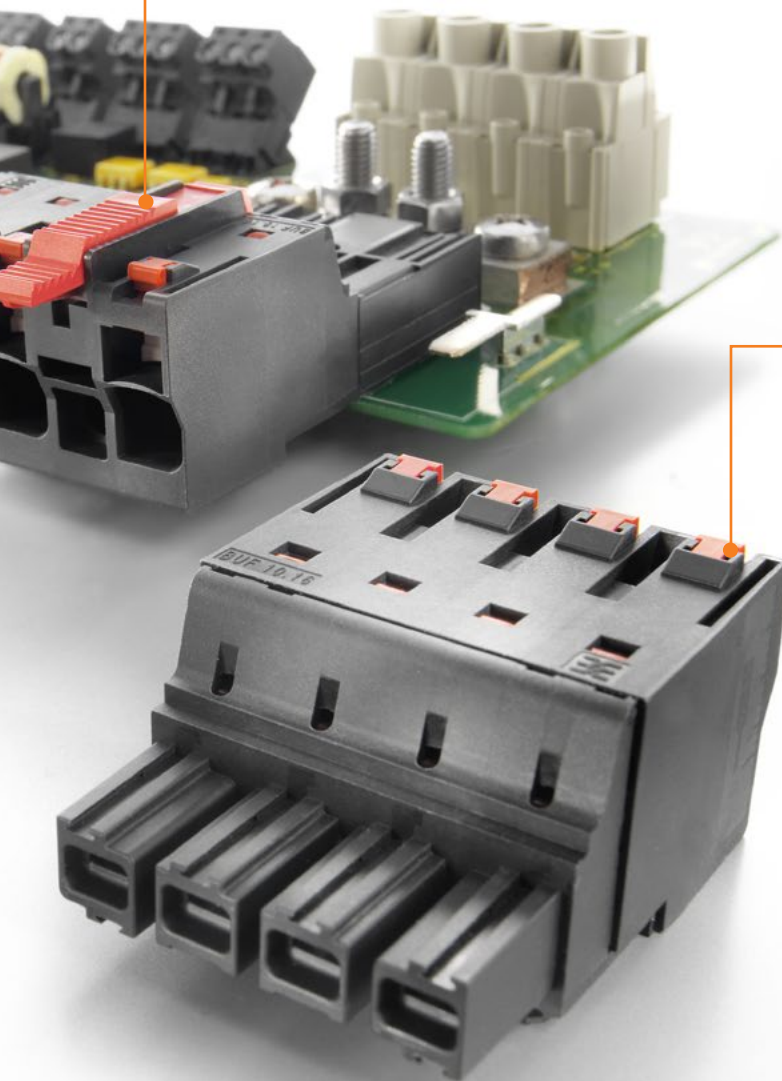
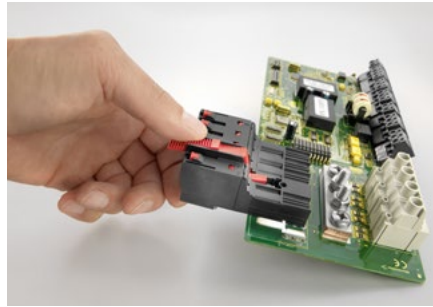
### Easy installation

PUSH IN technology with open position fixed clamping point for easy wiring of flexible wires without ferrules and wires with rigid insulation.

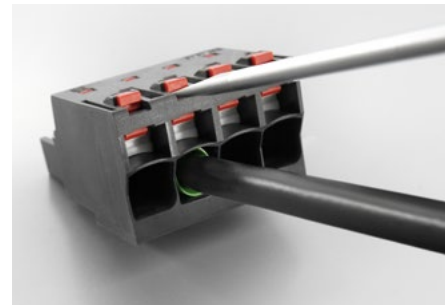


**Easy one hand operation**

Automatic locking by a centre flange with detent fixing and optional screw fixing.

**Fast wiring**

The PUSH IN connection system allows tool-free connection of solid wires or wires with ferrules.





**Your special advantages**

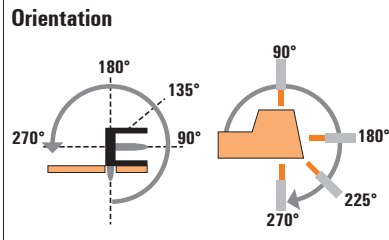
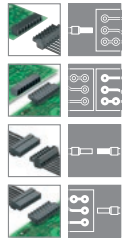
- PUSH IN-technology with open position fixed clamping point
- Tool-free wiring of flexible wires without ferrules and wires with rigid insulation
- Easy one-hand operation of the connector
- Automatic locking by a centre flange with detent fixing and optional screw fixing



**Webcode: # 11407**

<http://www.OMNIMATE.net>

-  = Wire-to-Board
-  = Board-to-Board
-  = Wire-to-Wire
-  = Board-to-Wire



Pitch 7.62 mm



For IT networks



Type	SL	SL
Orientation	90°	90°
Flange options	MF2	MF3
Product code numbers	IEC: 630 V/24 A UL: 300 V/20 A	IEC: 630 V/24 A UL: 300 V/20 A

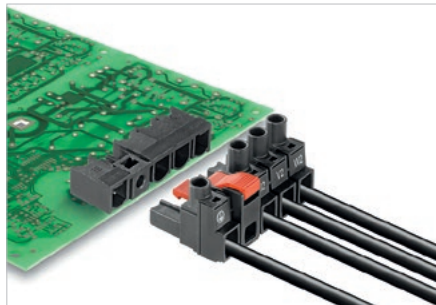
Type	Orientation	Flange options	Product code numbers				
			IEC: 630 V/24 A UL: 300 V/20 A	IEC: 630 V/24 A UL: 300 V/20 A			
Screw Clamping yoke	180°	MF2	IEC: 630 V/24 A/0.08 - 4 mm <sup>2</sup> UL: 600 V/20 A/AWG 28 - 12				
		MF3	IEC: 630 V/24 A/0.08 - 4 mm <sup>2</sup> UL: 600 V/20 A/AWG 28 - 12				
		MF4	IEC: 630 V/24 A/0.08 - 4 mm <sup>2</sup> UL: 600 V/20 A/AWG 28 - 12				
		MF2	IEC: 1.000 V/41 A/0.2 - 6 mm <sup>2</sup> UL: 600 V/40.5 A/AWG 24 - 8				
		MF3	IEC: 1.000 V/41 A/0.2 - 6 mm <sup>2</sup> UL: 600 V/40.5 A/AWG 24 - 8				
		MF4	IEC: 1.000 V/41 A/0.2 - 6 mm <sup>2</sup> UL: 600 V/40.5 A/AWG 24 - 8				
		MF2	IEC: 1.000 V/76 A/0.2 - 16 mm <sup>2</sup> UL: 600 V/60 A/AWG 22 - 4				
		MF3	IEC: 1.000 V/76 A/0.2 - 16 mm <sup>2</sup> UL: 600 V/60 A/AWG 22 - 4				
		MF4	IEC: 1.000 V/76 A/0.2 - 16 mm <sup>2</sup> UL: 600 V/60 A/AWG 22 - 4				
		Spring PUSH IN	180°	MF2	IEC: 1.000 V/76 A/0.2 - 16 mm <sup>2</sup> UL: 600 V/55 A/AWG 22 - 6		
				MF3	IEC: 1.000 V/76 A/0.2 - 16 mm <sup>2</sup> UL: 600 V/55 A/AWG 22 - 6		
				MF4	IEC: 1.000 V/76 A/0.2 - 16 mm <sup>2</sup> UL: 600 V/55 A/AWG 22 - 6		

MF2 = Centre snap flange at position 2  
 MF3 = Centre snap flange at position 3  
 MF4 = Centre snap flange at position 4



**Plug-in connector for IT power networks, pitch 7.62 mm**  
**BL/SL 7.62 IT series - connection up to 4 mm<sup>2</sup>**

**SL 7.62IT/./90MF**



Male header available with 90° outlet direction and an optional solder flange attachment for IT power networks. UL approval in accordance with UL840 for 600 V with leading contact. In conjunction with the female plug BLZ 7.62 IT, meets the enhanced requirements for 5.5 mm touch-safety for IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. When no female plug is present, the mating profile ensures that at least >1 mm of finger safety is present with a finger pressure of 20 N.

The middle-flange interlock feature decreases the space required by one pitch width compared to other standard solutions.

Available on request with screw flange mounting block or without flange.

**Product data**

IEC: 630 V / 29 A  
 UL: 300 V / 20 A

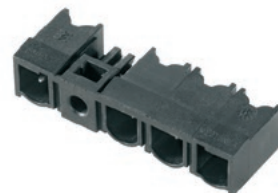


For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

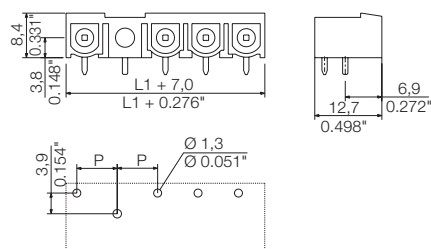
**Note:**

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MF2 and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SL 7.62IT/./90MF2**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>29</b>	<b>25</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III
Pollution severity		3	2
<b>Rated voltage</b>	<b>V</b>	<b>400</b>	<b>500</b>
Rated impulse voltage	kV	6	6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20</b>
<b>AWG conductor</b>	<b>AWG</b>	-	-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C</b>
Rated voltage	V	300	300
Rated current	A	20	20
AWG conductor	AWG	-	-
<b>General data</b>			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

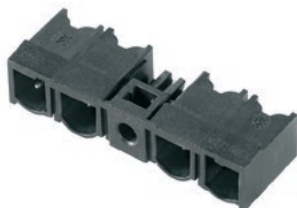
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO OR BX	1573010000
BLZ/SL KO BK BX	1545710000

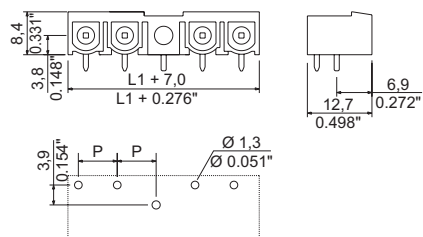
**Ordering data**

Solder pin length		3.2 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	100	1173610000
3	22.86	0.900	100	1173640000
4	30.48	1.200	100	1173730000
5	38.10	1.500	100	2629360000
6	45.72	1.800	100	2629480000

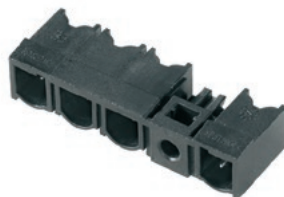
SL 7.62IT../90MF3



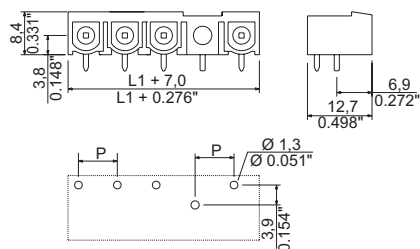
Dimensioned drawing



SL 7.62IT../90MF4



Dimensioned drawing



Ordering data

Solder pin length		3.2 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	100	1173690000	
4	30.48	1.200	100	2629490000	
5	38.10	1.500	40	1398820000	
6	45.72	1.800	40	1398840000	

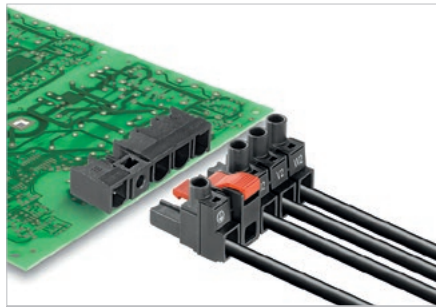
Ordering data

Solder pin length		3.2 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	100	1173770000	
5	38.10	1.500	40	1398830000	
6	45.72	1.800	100	2629500000	



**Plug-in connector for IT power networks, pitch 7.62 mm**  
**BL/SL 7.62 IT series - connection up to 4 mm<sup>2</sup>**

**BLZ 7.62IT../180MF**



Female plug with 180° outlet direction for IT power networks. Meets the requirements of UL1059 for 600 V Use Group C. Leading contact in conjunction with the male header SL 7.62 IT. Meets the enhanced requirements for 5.5 mm touch-safety for IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth.

The self-snapping middle flange, which is optionally available with an additional fastening screw, decreases the space required by one pitch width compared to other standard solutions.

Optionally available without middle flange interlock

**Product data**

IEC: 630 V / 29 A / 0.08 - 4 mm<sup>2</sup>  
 UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

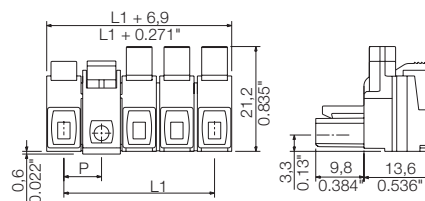
**Note:**

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**BLZ 7.62IT../180MF2**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.	mm <sup>2</sup>	0.08...4
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.08...4</b>
Stranded H07 V-R		
Flexible H05(07) V-K	mm <sup>2</sup>	0.08...4
Flexible with ferrule	mm <sup>2</sup>	0.2...2.5
Ferrule with plastic collar	mm <sup>2</sup>	0.2...2.5
Stripping length	mm	7
Screwdriver blade	mm	0.6 x 3.5
According to norm		DIN 5264
Tightening torque range	Nm	0.4...0.5

**Rated current, max.** A 29 25  
 At ambient temperature 20°C 40°C

For conductor cross-section	mm <sup>2</sup>	2.5
Overtoltage category		III III II
Pollution severity		3 2 2

**Rated voltage** V 400 500 630  
 Rated impulse voltage kV 6 6 4

**UL / CUL (Use Group)** B C D

**Rated voltage** V 600 600 600

**Rated current** A 20 20 5

**AWG conductor** AWG 20-12

**CSA (Use Group)** B C D

Rated voltage V 600 600 600

Rated current A 20 20 5

AWG conductor AWG 20-12

**General data**

Type of insulation material		PBT
UL 94 flammability rating		V-0
Contact base material		Copper alloy
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

**Accessories**

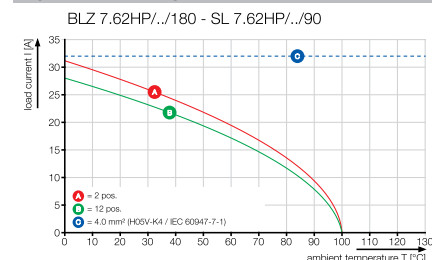
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO OR BX	1573010000
BLZ/SL KO BK BX	1545710000
Screwdriver	
SDS 0.6X3.5X100	9008330000
SDIS 0.6X3.5X100	9008390000

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	70	1173490000
3	22.86	0.900	50	1173500000
4	30.48	1.200	40	1173520000
5	38.10	1.500	50	2629690000
6	45.72	1.800	50	2629740000

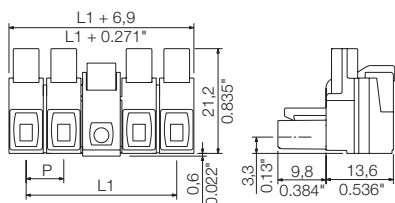
**Representative deratings curve**



BLZ 7.62IT../180MF3



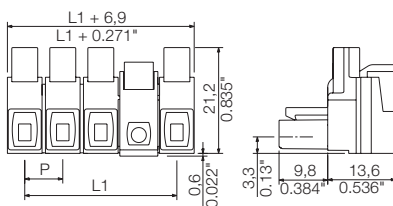
Dimensioned drawing



BLZ 7.62IT../180MF4



Dimensioned drawing



Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1173510000	
4	30.48	1.200	50	2629750000	
5	38.10	1.500	30	1398880000	
6	45.72	1.800	25	1398900000	

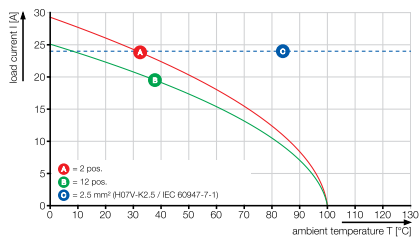
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	40	1173530000	
5	38.10	1.500	30	1398890000	
6	45.72	1.800	25	1398910000	



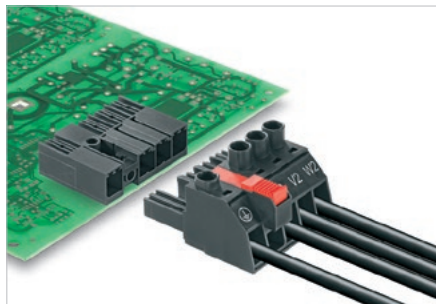
Additional deratings curves

BLZ 7.62HP../180 - SL 7.62HP../90



**Plug-in connector for IT power networks, pitch 7.62 mm**  
**BV/SV 7.62 IT series - connection up to 6 mm<sup>2</sup>**

**SV-SMT 7.62IT/./90MF**



Male header with 90° outlet direction with optional solder flange attachment and leading PE contact for IT networks. UL approval in accordance with UL840 for 600 V. In combination with the female plug BVZ 7.62IT meets the enhanced requirements for 5.5 mm of touch safety for IT networks in acc. with IEC61800-5-1 for 400 V relative to earth. If no female plug is present, the mating profile still ensures that at least > 1 mm of finger safety is present with a finger pressure of 20 N.

Variants: flange, screw flange and middle flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Product data**

IEC: 1000 V / 41 A  
 UL:



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

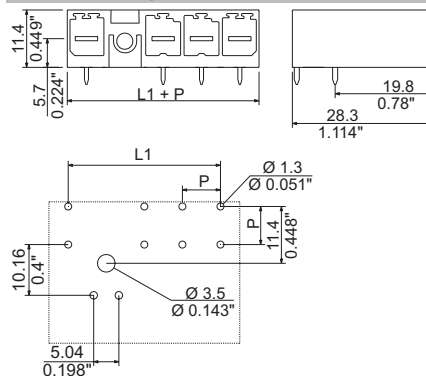
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SV-SMT 7.62IT/./90MF2 Box**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>

<b>Rated voltage</b>			
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>

Rated voltage		
Rated current		
AWG conductor	AWG	-
<b>General data</b>		
Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Copper alloy
Material of contact surface		tinned
Pin dimensions = d	mm	0.8 x 1.0
Solder eyelet Ø = D	mm	1.3
Solder eyelet Ø tolerance	mm	+ 0,1

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000



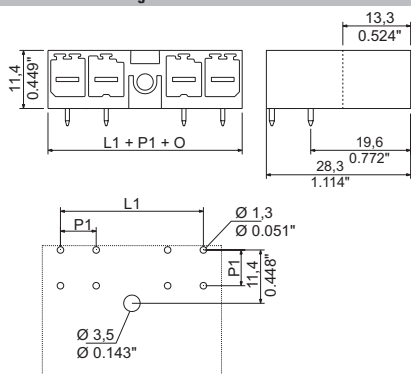
**Ordering data**

<b>Solder pin length</b>	2.6 mm			
<b>Colour</b>	Black			
<b>Pitch</b>	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	50	2499530000
3	22.86	0.900	50	2499720000
4	30.48	1.200	48	2499740000
5	38.10	1.800	50	2499760000

SV-SMT 7.62IT../90MF3 Box



Dimensioned drawing



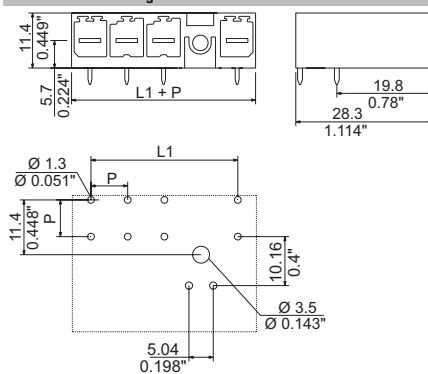
Ordering data

Solder pin length		2.6 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
3	22.86	0.900	50 2499730000
4	30.48	1.200	48 2499750000
5	38.10	1.800	50 2499770000

SV-SMT 7.62IT../90MF4 Box



Dimensioned drawing

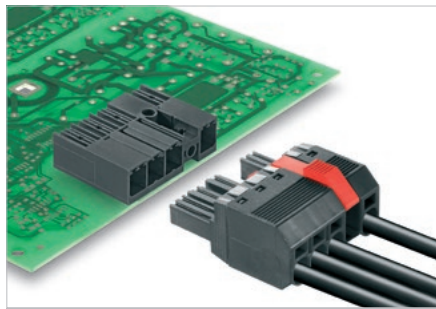


Ordering data

Solder pin length		2.6 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
4	30.48	1.200	48 2454110000
5	38.10	1.800	50 2499780000

**Plug-in connector for IT power networks, pitch 7.62 mm**  
**BV/SV 7.62 IT series - connection up to 6 mm<sup>2</sup>**

**SV-SMT 7.62IT/./270MF**



Male header with 270° outlet direction with optional solder flange attachment and leading PE contact for IT networks. UL approval in accordance with UL840 for 600 V. In combination with the female plug BVZ 7.62IT meets the enhanced requirements for 5.5 mm of touch safety for IT networks in acc. with IEC61800-5-1 for 400 V relative to earth. When no female plug is present, the mating profile ensures that at least > 1 mm of finger safety is present with a finger pressure of 20 N.

Variants: flange, screw flange and middle flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>

<b>Rated voltage</b>			
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>

Rated voltage			
Rated current			
AWG conductor	AWG		

<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 1000 V / 41 A  
 UL:



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

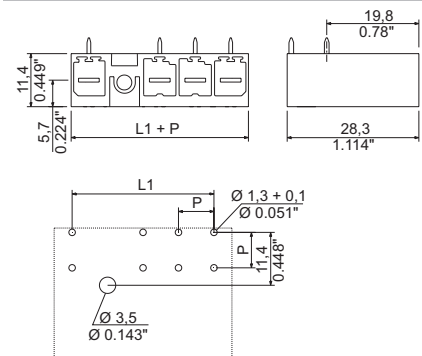
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SV-SMT 7.62IT/./270MF2 Box**



**Dimensioned drawing**



**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000



**Ordering data**

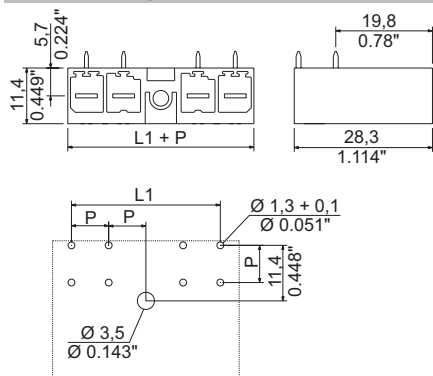
<b>Solder pin length</b>	3.5 mm			
<b>Colour</b>	Black			
<b>Pitch</b>	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	50	2498800000
3	22.86	0.900	50	2499010000
4	30.48	1.200	50	2499030000



SV-SMT 7.62IT../270MF3 Box



Dimensioned drawing



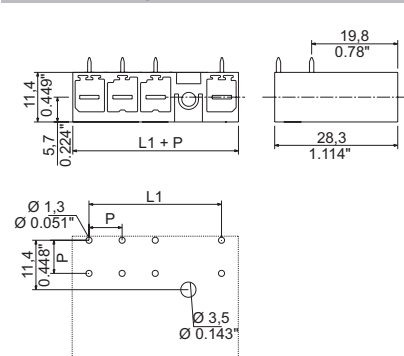
Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	50	2499020000
4	30.48	1.200	50	2499040000

SV-SMT 7.62IT../270MF4 Box



Dimensioned drawing

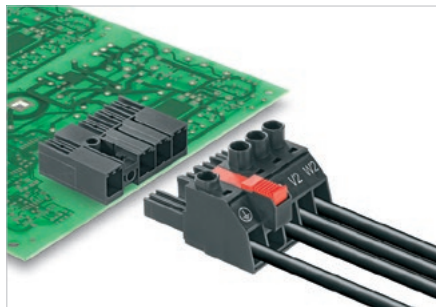


Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	50	2499050000

**Plug-in connector for IT power networks, pitch 7.62 mm**  
**BV/SV 7.62 IT series - connection up to 6 mm<sup>2</sup>**

**SV 7.62IT/./90MF**



Male header with 90° outlet direction with optional solder flange attachment and leading PE contact for IT power networks. UL approval in accordance with UL840 for 600 V In combination with the female plug BVZ 7.62 IT meets the enhanced requirements for 5.5 mm of touch safety for IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. Even when no female plug is present, the mating profile ensures that at least >1 mm of touch safety is present with a finger pressure of 20 N.

The middle-flange interlock feature decreases the space required by one pitch width compared to other standard solutions.

Available on request with screw flange mounting block or without flange.

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**Technical data**

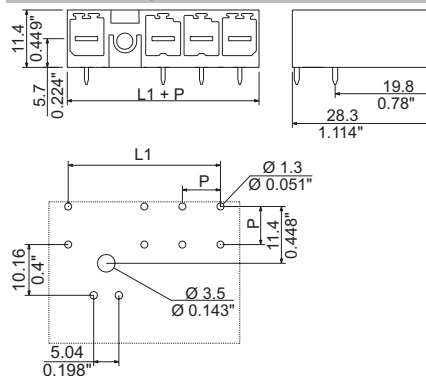
**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**SV 7.62IT/./90MF2**



**Dimensioned drawing**




**Ordering data**

<b>Solder pin length</b>	3.5 mm			
<b>Colour</b>	Black			
<b>Pitch</b>	7.62 mm			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
2	15.24	0.600	78	1156540000
3	22.86	0.900	60	1156550000
4	30.48	1.200	48	1156580000

**Accessories**

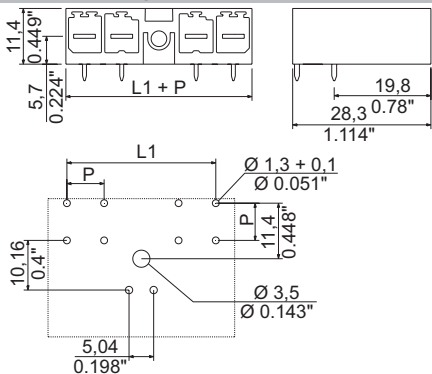
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
 BV/SV 7.62HP KO	1937590000
<b>Mounting foot</b>	
BV/SV7.62HP MOFU GR	1937600000

SV 7.62IT/./90MF3



Dimensioned drawing



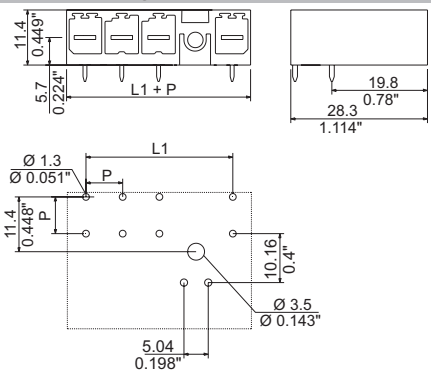
Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	60	1156570000
4	30.48	1.200	48	1519190000

SV 7.62IT/./90MF4



Dimensioned drawing

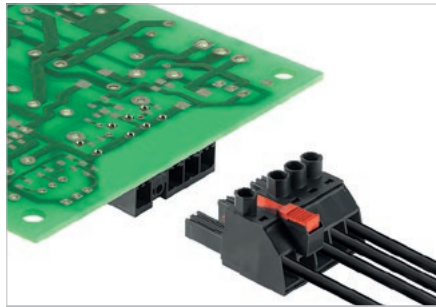


Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	48	1156590000

**Plug-in connector for IT power networks, pitch 7.62 mm**  
**BV/SV 7.62 IT series - connection up to 6 mm<sup>2</sup>**

**SV 7.62IT/./270MF**



Male header with 270° outlet direction with a leading PE contact for IT power networks. UL approval in accordance with UL840 for 600 V In combination with the female plug BVZ 7.62 IT meets the enhanced requirements for 5.5 mm of touch safety for IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. Even when no female plug is present, the mating profile ensures that at least >1 mm of touch safety is present with a finger pressure of 20 N.

The middle-flange interlock feature decreases the space required by one pitch width compared to other standard solutions.

Available on request with screw flange mounting block or without flange.

**Product data**

IEC: 1000 V / 41 A  
 UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

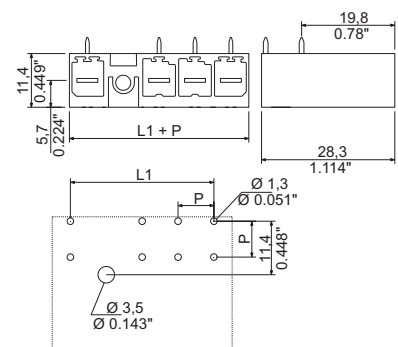
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SV 7.62IT/./270MF2**



**Dimensioned drawing**




**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000
	
<b>Mounting foot</b>	
BV/SV7.62HP MOFU GR	1937600000

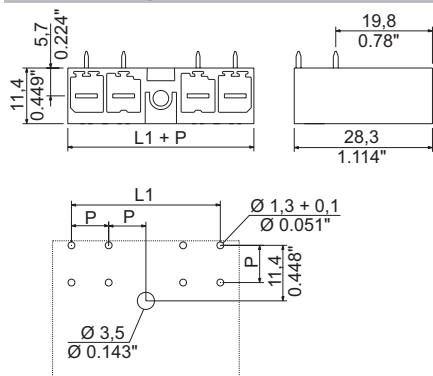
**Ordering data**

<b>Solder pin length</b>	3.5 mm			
<b>Colour</b>	Black			
<b>Pitch</b>	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	78	1156490000
3	22.86	0.900	60	1156500000
4	30.48	1.200	48	1156520000

SV 7.62IT../270MF3



Dimensioned drawing



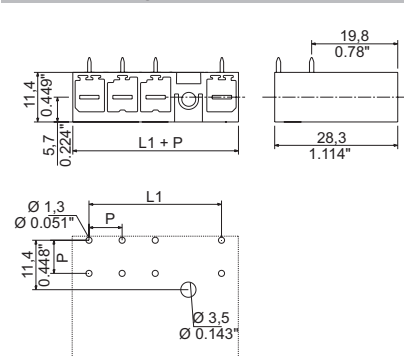
Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	60	1156510000
4	30.48	1.200	48	1519200000

SV 7.62IT../270MF4



Dimensioned drawing

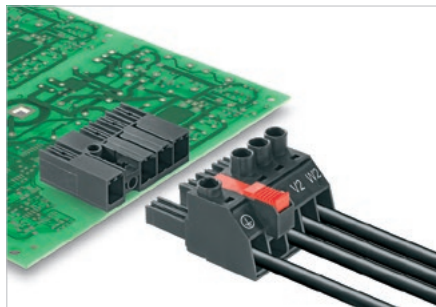


Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	48	1156530000

**Plug-in connector for IT power networks, pitch 7.62 mm**  
**BV/SV 7.62 IT series - connection up to 6 mm<sup>2</sup>**

**BVZ 7.62IT../180MF**



Female plug for IT power networks. Meets the requirements of UL1059 for 600 V Use Group C. Leading PE contact in combination with the male header SV 7.62 IT. Meets the enhanced requirements for 5.5 mm of touch safety for IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth.

The self-locking middle flange which can also be optionally screwed, reduces the space requirements by one pitch width compared to conventional solutions.

Optionally available without middle flange interlock.

**Product data**

IEC: 1000 V / 41 A / 0.2 - 6 mm<sup>2</sup>  
 UL: 600 V / 40.5 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

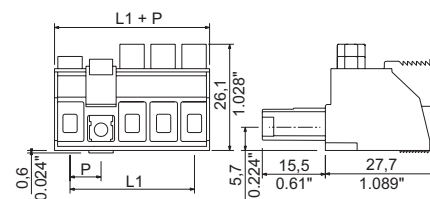
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**BVZ 7.62IT../180MF2**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.	mm <sup>2</sup>	0.2...10
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...6</b>
Stranded H07 V-R		
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6
Flexible with ferrule	mm <sup>2</sup>	0.25...6
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6
Stripping length	mm	12
Screwdriver blade	mm	0.6 x 3.5

According to norm

Tightening torque range	Nm	0.5...0.6
<b>Rated current, max.</b>		<b>41 41</b>
At ambient temperature	20°C 40°C	
For conductor cross-section	mm <sup>2</sup>	6
Overvoltage category	III III II	
Pollution severity	3 2 2	
<b>Rated voltage</b>	<b>V</b>	<b>800 1000 1000</b>
Rated impulse voltage	kV	8 8 6
<b>UL / CUL (Use Group)</b>		<b>B C D</b>

<b>Rated voltage</b>	<b>V</b>	<b>600 600 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5 40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B C D</b>
Rated voltage	V	600 600 600
Rated current	A	40.5 40.5 5
AWG conductor	AWG	24-8

**General data**

Type of insulation material	PA GF
UL 94 flammability rating	V-0
Contact base material	Copper alloy
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

**Accessories**

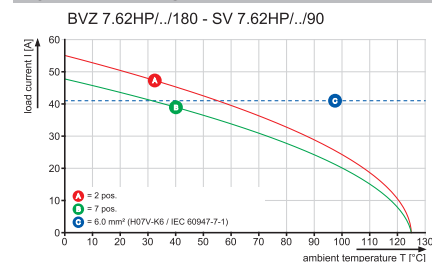
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
<b>Strain relief</b>	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
<b>Screwdriver</b>	
SDS 0.8X4.5X125	9009020000
<b>Crosshead screwdriver</b>	
SDK PH1	9008480000

**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>Black</b>			
<b>Pitch</b>	<b>7.62 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	52	1156710000
3	22.86	0.900	40	1156720000
4	30.48	1.200	32	1156740000

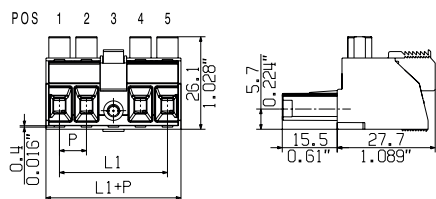
**Representative deratings curve**



**BVZ 7.62IT../180MF3**



Dimensioned drawing



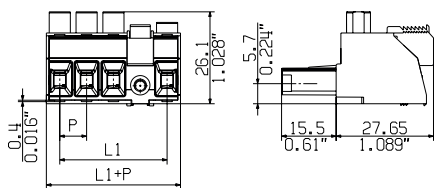
**Ordering data**

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	40	1156730000	
4	30.48	1.200	32	1312730000	

**BVZ 7.62IT../180MF4**



Dimensioned drawing



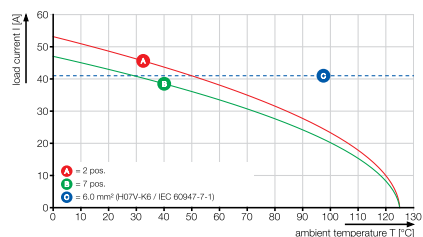
**Ordering data**

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	32	1156750000	



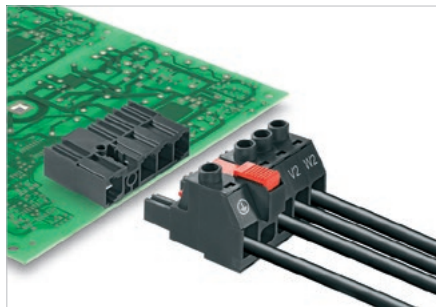
**Additional deratings curves**

BVZ 7.62HP../180 - SV 7.62HP../180



**Plug-in connector for IT power networks, pitch 10.16 mm**  
**BU/SU 10.16 IT series - connection up to 16 mm<sup>2</sup>**

**SU 10.16IT../90MF**



Male header with 90° outlet direction and optional solder flange with leading PE contact. UL approval in accordance with UL840 for 600 V. In combination with the female plug BUZ 10.16 IT meets the enhanced requirements for 5.5 mm of touch safety on IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. Even when no female plug is present, the mating profile ensures that at least >1 mm of touch safety is present with a finger pressure of 20 N.

The middle-flange interlock feature decreases the space required by one pitch width compared to other standard solutions.

Available on request with screw flange mounting block or without flange.

**Product data**

IEC: 1000 V / 78.3 A  
 UL: 300 V / 60 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>690</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	60	60 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

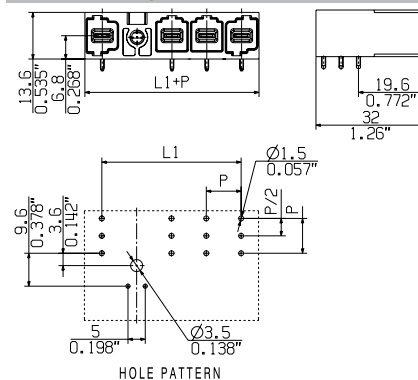
Coding	Order No.
KO BU/SU10.16HP / BV/SV7.62	1824410000
KO BU/SU10.16HP WT	2592600000



**SU 10.16IT../90MF2**



**Dimensioned drawing**



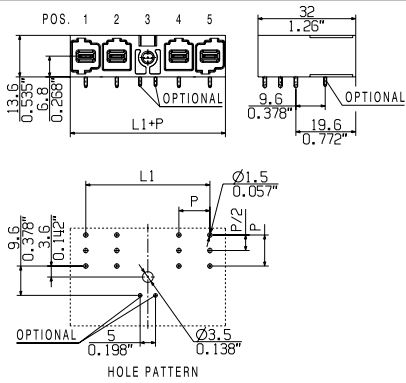
**Ordering data**

<b>Solder pin length</b>	3.5 mm		
<b>Colour</b>	Black		
<b>Pitch</b>	10.16 mm		
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty. Order No.</b>
2	20.32	0.800	60 1156650000
3	30.48	1.200	42 1156670000
4	40.64	1.600	36 1156690000

SU 10.16IT../90MF3



Dimensioned drawing



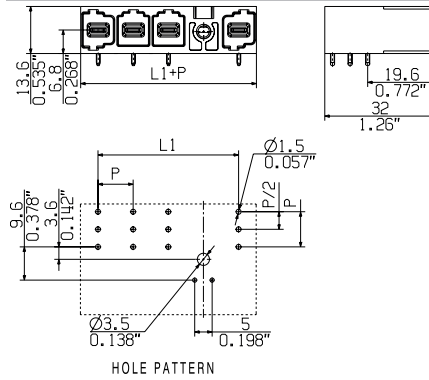
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
3	30.48	1.200	42 <b>1156680000</b>
4	20.32	0.800	36 <b>2629730000</b>

SU 10.16IT../90MF4



Dimensioned drawing

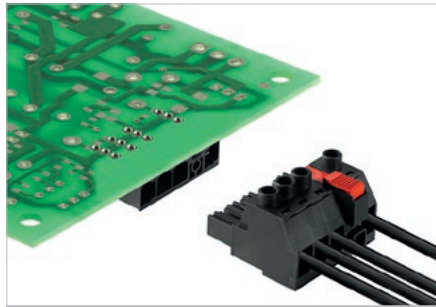


Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
4	40.64	1.600	36 <b>1156700000</b>

**Plug-in connector for IT power networks, pitch 10.16 mm**  
**BU/SU 10.16 IT series - connection up to 16 mm<sup>2</sup>**

**SU 10.16IT../270MF**



Male header with 270° outlet direction with leading PE contact. UL approval in accordance with UL840 for 600 V. In combination with the female plug BUZ 10.16 IT meets the enhanced requirements for 5.5 mm of touch safety on IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth. Even when no female plug is present, the mating profile ensures that at least >1 mm of touch safety is present with a finger pressure of 20 N.

The middle-flange interlock feature decreases the space required by one pitch width compared to other standard solutions.

Available on request with screw flange mounting block or without flange.

**Product data**

IEC: 1000 V / 78.3 A  
 UL: 300 V / 60 A

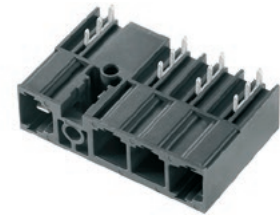


For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

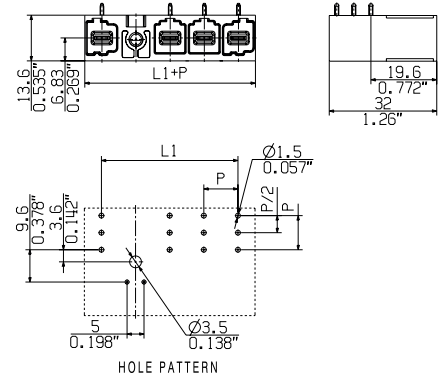
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SU 10.16IT../270MF2**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>690</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	60	60 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP / BV/SV7.62	18244 10000
KO BU/SU10.16HP WT	259260000



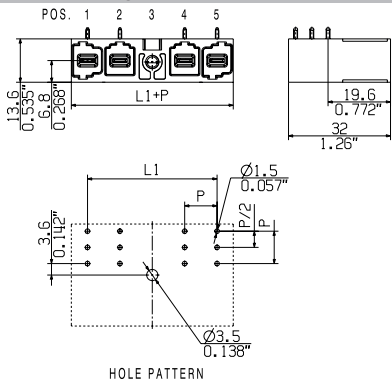
**Ordering data**

<b>Solder pin length</b>	3.5 mm		
<b>Colour</b>	Black		
<b>Pitch</b>	10.16 mm		
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty. Order No.</b>
2	20.32	0.800	60 1157310000
3	30.48	1.200	42 1157320000
4	40.64	1.600	36 1157340000

SU 10.16IT../270MF3



Dimensioned drawing



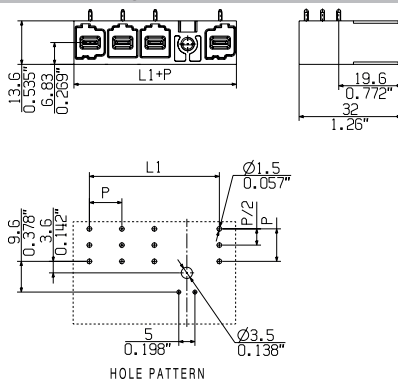
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
3	30.48	1.200	42 <b>1157330000</b>
4	20.32	0.800	36 <b>2630190000</b>

SU 10.16IT../270MF4



Dimensioned drawing

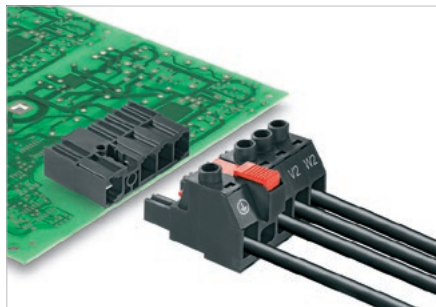


Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
4	40.64	1.600	36 <b>1157350000</b>

**Plug-in connector for IT power networks, pitch 10.16 mm**  
**BU/SU 10.16 IT series - connection up to 16 mm<sup>2</sup>**

**BUZ 10.16IT../180MF**



Female plug with 180° outlet direction for IT power networks. Meets the requirements of UL1059 for 600 V Use Group C. Leading PE contact in combination with the male header SU 7.62 IT. Meets the enhanced requirements for 5.5 mm of touch safety on IT power networks in acc. with IEC 61800-5-1 for 400 V relative to earth.

The self-locking middle flange which can also be optionally screwed, reduces the space requirements by one pitch width compared to conventional solutions.

Optionally available without middle flange interlock.

**Product data**

IEC: 1000 V / 78.3 A / 0.2 - 16 mm<sup>2</sup>  
 UL: 600 V / 60 A / AWG 22 - 4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

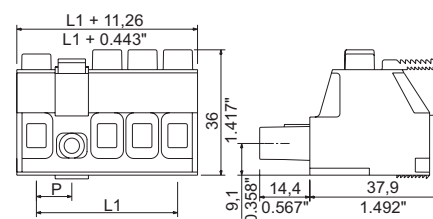
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**BUZ 10.16IT../180MF2**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.2...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...16</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.25...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...16	
Stripping length	mm	12	
Screwdriver blade	mm	1.0 x 5.5	
According to norm			
Tightening torque range	Nm	1.2...1.5	
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>22-4</b>
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	300	600 600
Rated current	A	60	60 5
AWG conductor	AWG		22-4
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Accessories**

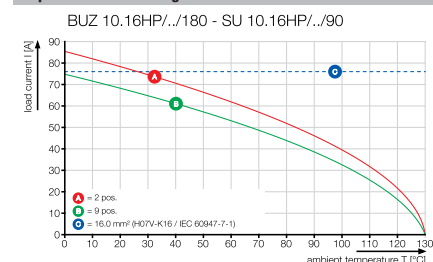
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP / BV/SV7.62	<b>18244 10000</b>
KO BU/SU10.16HP WT	<b>259260000</b>
<b>Screwdriver</b>	
SDIS 1.0X5.5X125	<b>90084 10000</b>
SDK PZ2	<b>9008540000</b>
<b>Crosshead screwdriver</b>	
SDIK PZ2	<b>9008890000</b>

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	20.32	0.800	30	<b>1156600000</b>
3	30.48	1.200	21	<b>1156610000</b>
4	40.64	1.600	18	<b>1156630000</b>

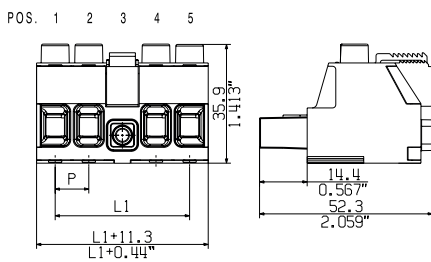
**Representative deratings curve**



**BUZ 10.16IT../180MF3**



Dimensioned drawing



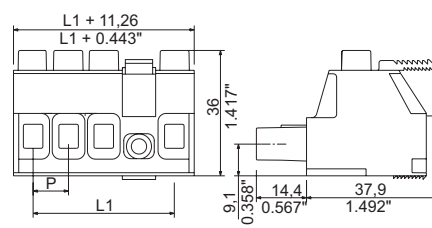
**Ordering data**

Solder pin length				
Colour		Black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
3	30.48	1.200	21	1156620000
4	40.64	1.600	18	2000430000

**BUZ 10.16IT../180MF4**



Dimensioned drawing

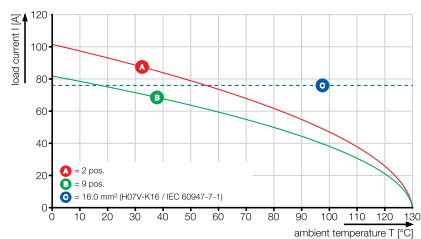


**Ordering data**

Solder pin length				
Colour		Black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	40.64	1.600	18	1156640000

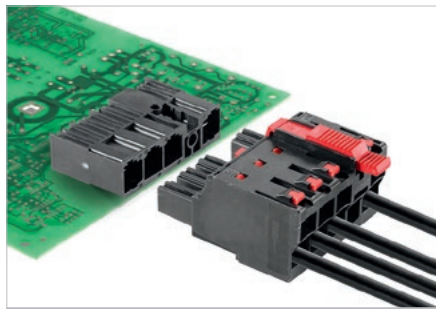
**Additional deratings curves**

BUZ 10.16HP../180 - SU 10.16HP../180



**Plug-in connector for IT power networks, pitch 10.16 mm**  
**BU/SU 10.16 IT series - connection up to 16 mm<sup>2</sup>**

**BUF 10.16IT../180MF**



Female plug in 180° outlet direction for IT networks. Fulfills the requirements of UL1059 for 600 V Use Group C with leading PE contact when used with SU 10.16 IT male header. Fulfills the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1.

The middle flange interlocks automatically and is optionally available with screw connection. It decreases the space required by one pole when compared to other solutions.

Available optionally without middle flange interlock.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	2.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>2.5...10</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	2.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm		DIN 5264	
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>70</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B C D</b>	
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>55</b>	<b>55</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>12-4</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B C D</b>	
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 76 A / 2.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 55 A / AWG 12 - 4



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

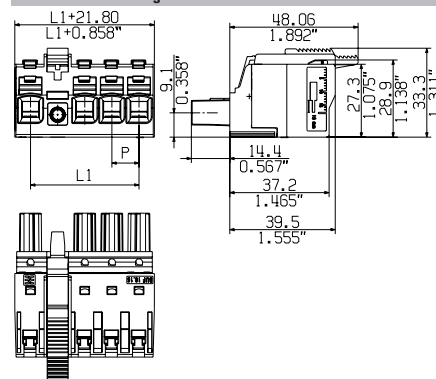
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**BUF 10.16IT../180MF2**



**Dimensioned drawing**



**Ordering data**

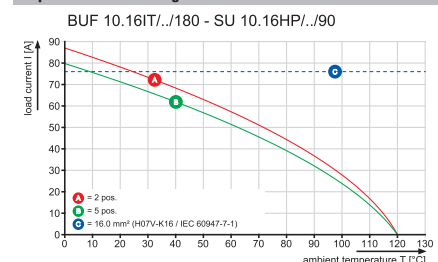
Solder pin length				
Colour	Black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	20.32	0.800	36	2493160000
3	30.48	1.200	28	2493180000
4	40.64	1.600	24	2493200000
5	50.80	2.000	36	2586660000
6	60.96	2.400	50	2586770000

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP / BV/SV7.62	1824410000
KO BU/SU10.16HP WT	2592600000
Screwdriver	
SDS 0.8X4.5X125	9009020000

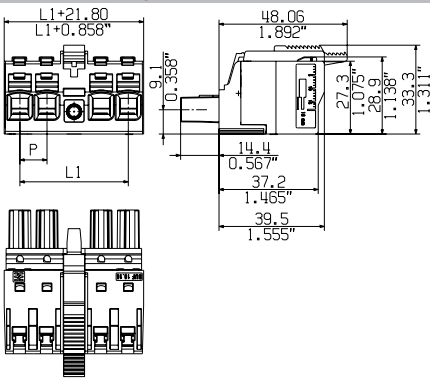
**Representative deratings curve**



BUF 10.16IT../180MF3



Dimensioned drawing



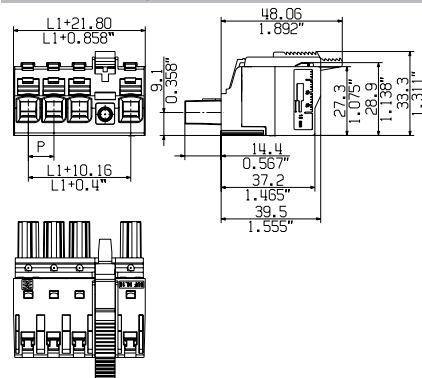
Ordering data

Solder pin length					
Colour					Black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	30.48	1.200	28	2493190000	
4	40.64	1.600	24	2493210000	
5	50.80	2.000	50	2586700000	
6	60.96	2.400	50	2586780000	

BUF 10.16IT../180MF4



Dimensioned drawing

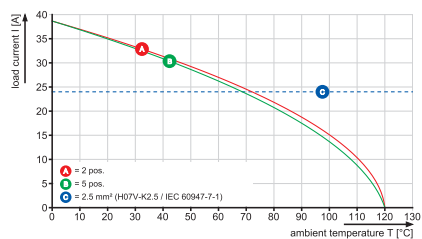


Ordering data

Solder pin length					
Colour					Black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	40.64	1.600	24	2544950000	
5	50.80	2.000	50	2586710000	
6	60.96	2.400	50	2586790000	

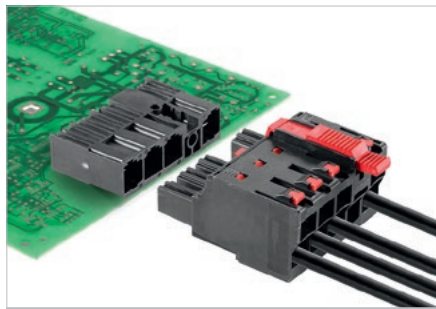
Additional deratings curves

BUF 10.16IT../180 - SU 10.16HP../90



**Plug-in connector for IT power networks, pitch 10.16 mm**  
**BU/SU 10.16 IT series - connection up to 16 mm<sup>2</sup>**

**BUF 10.16IT../180MSF**



Female plug in 180° outlet direction for IT networks. Fulfills the requirements of UL1059 for 600 V Use Group C with leading PE contact when used with SU 10.16 IT male header. Fulfills the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1.

The middle flange interlocks automatically and is optionally available with screw connection. It decreases the space required by one pole when compared to other solutions.

Available optionally without middle flange interlock.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.	mm <sup>2</sup>	2.5...16
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>2.5...10</b>
Stranded H07 V-R		...16
Flexible H05(07) V-K	mm <sup>2</sup>	2.5...16
Flexible with ferrule	mm <sup>2</sup>	2.5...16
Ferrule with plastic collar	mm <sup>2</sup>	2.5...16
Stripping length	mm	18
Screwdriver blade	mm	0.8 x 4.0
According to norm		DIN 5264
Tightening torque range		
<b>Rated current, max.</b>	<b>A</b>	<b>76 70</b>
At ambient temperature	20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16
Overvoltage category		III III II
Pollution severity		3 2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000 1000 1000</b>
Rated impulse voltage	kV	8 8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B C D</b>

<b>Rated voltage</b>	<b>V</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>55 55</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>12-4</b>
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B C D</b>
Rated voltage	V	
Rated current	A	
AWG conductor	AWG	-

<b>General data</b>		
Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Copper alloy
Material of contact surface		silver-plated
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

**Product data**

IEC: 1000 V / 76 A / 2.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 55 A / AWG 12 - 4



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

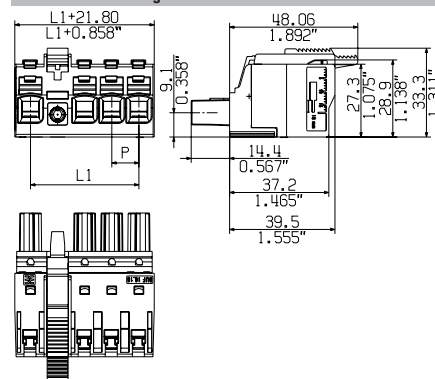
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**BUF 10.16IT../180MSF2**



**Dimensioned drawing**



**Accessories**

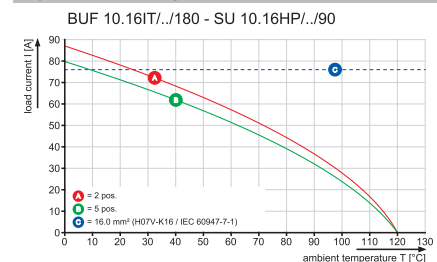
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP / BV/SV7.62	<b>1824410000</b>
KO BU/SU10.16HP WT	<b>2592600000</b>
Screwdriver	
SDS 0.8X4.5X125	<b>9009020000</b>

**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>Black</b>			
<b>Pitch</b>	<b>10.16 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
2	20.32	0.800	36	<b>2493230000</b>
3	30.48	1.200	28	<b>2493240000</b>
4	40.64	1.600	24	<b>2493260000</b>
5	50.80	2.000	50	<b>2586730000</b>
6	60.96	2.400	50	<b>2586820000</b>

**Representative deratings curve**



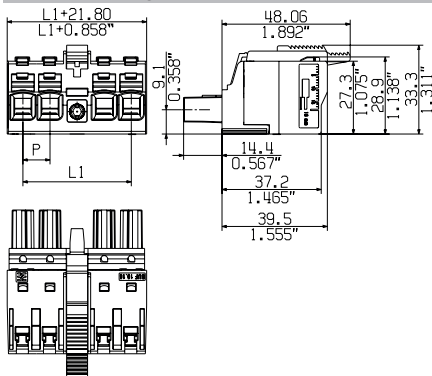
**BUF 10.16IT../180MSF3**



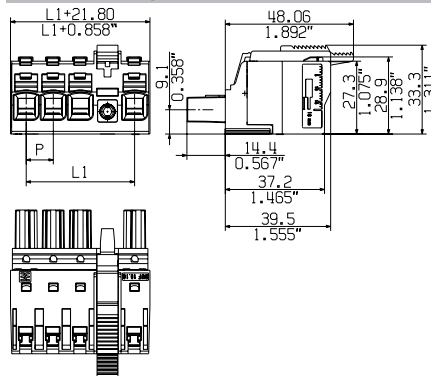
**BUF 10.16IT../180MSF4**



**Dimensioned drawing**



**Dimensioned drawing**



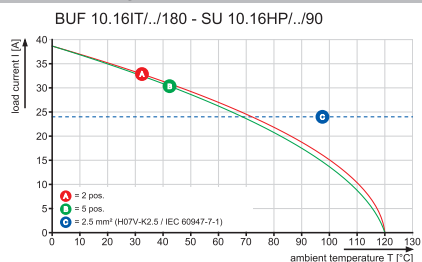
**Ordering data**

Solder pin length					
Colour					Black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	30.48	1.200	28	2493250000	
4	40.64	1.600	24	2493270000	
5	50.80	2.000	50	2586740000	
6	60.96	2.400	50	2586830000	

**Ordering data**

Solder pin length					
Colour					Black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	40.64	1.600	24	2493280000	
5	50.80	2.000	50	2586750000	
6	60.96	2.400	50	2586840000	

**Additional deratings curves**

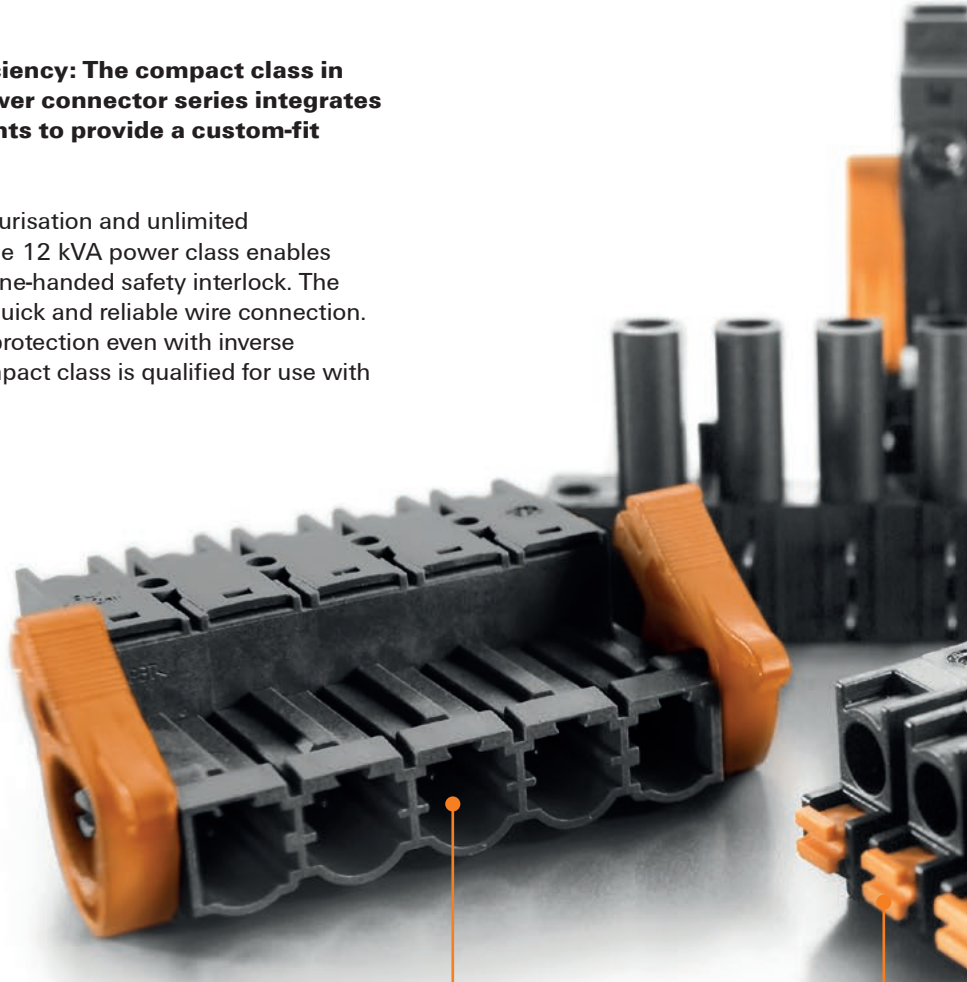


# OMNIMATE® Power BL/SL 7.62HP – power class up to 2.55 mm<sup>2</sup> and 24 A

## Custom-fit solutions for compact devices

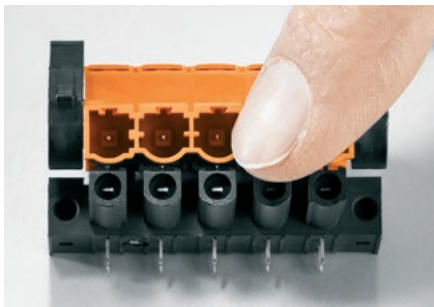
**Compact power for more safety and efficiency: The compact class in the OMNIMATE® Power BL/SL 7.62HP power connector series integrates previously-conflicting market requirements to provide a custom-fit solution for drive applications.**

This closes the gap between increasing miniaturisation and unlimited 600 V UL approval. The system extension to the 12 kVA power class enables a touch-safe, inverted motor connection with one-handed safety interlock. The "PUSH IN" connection system also provides a quick and reliable wire connection. Doublesided touch protection guarantees full protection even with inverse voltages. Thus even OMNIMATE® Power's compact class is qualified for use with the DC link bus.



### Compact safety

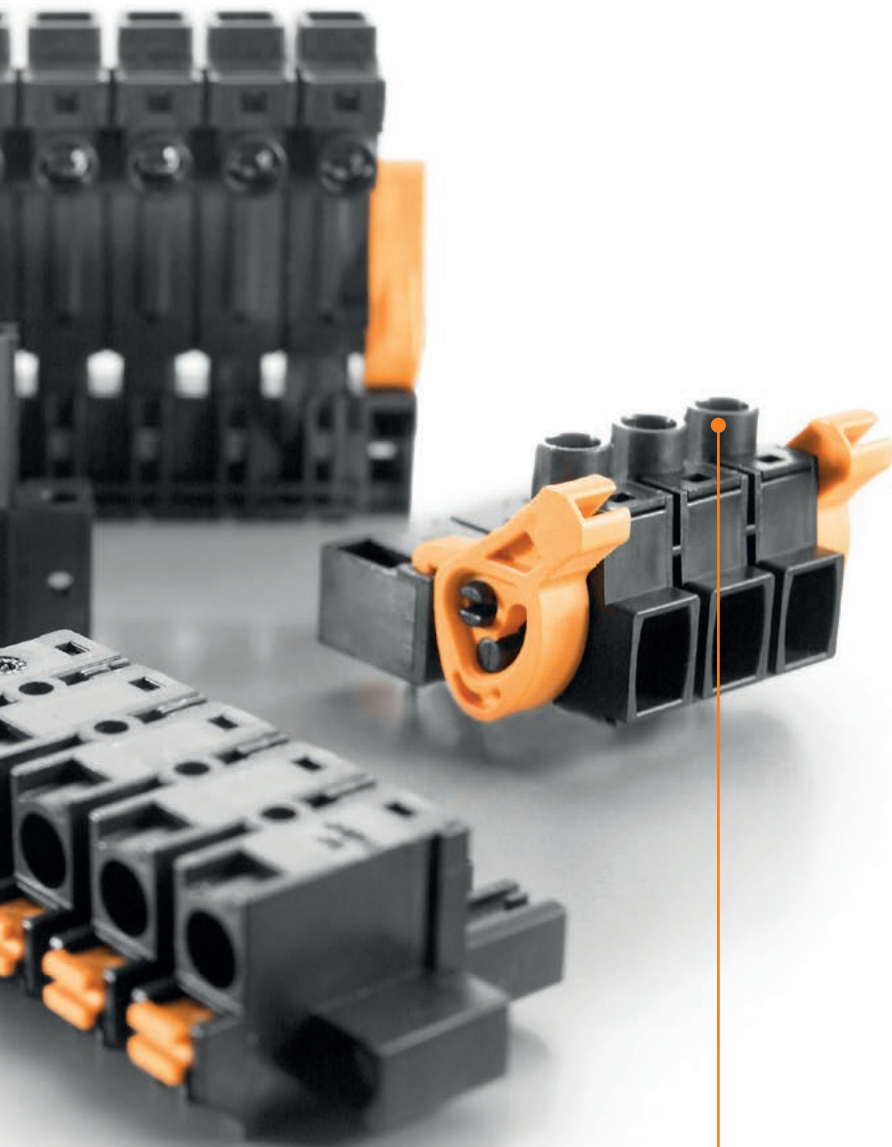
No additional measures required for DC links or inverse voltage: the inverted versions have finger-safe male header and female header even when not plugged in.



### Compact reliability

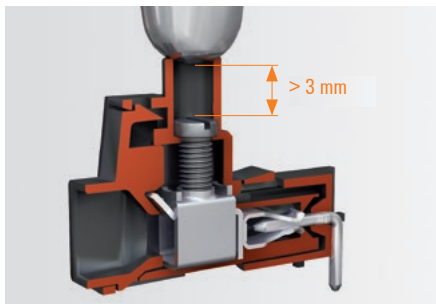
Maintenance-free and vibration-proof connections: quick and simple "PUSH IN" connections, or the self-fastening Weidmüller steel clamp with plus/minus screw and "Wire Guard".





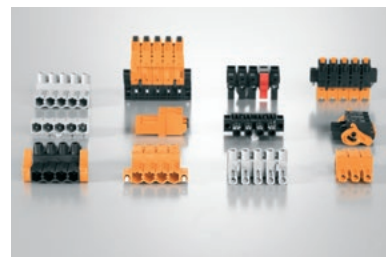
**Compact integration**

No compromises during design and approval: compact and standard-compliant with additional +3.0 mm finger safety, according to IEC 61800-5-1, and increased creepage and clearance distances according to UL.



**Compact system power**

An overview of OMNIMATE® Power's 12 kVA class: The compact system with either standard or inverted mating profile, with screw or "PUSH IN" wire connection; optionally with lock & release lever, screw flange or one-handed safety interlock.



**Unrivalled current-carrying capacity**

The highest load capacity in the 12 kVA compact class: with up to 29 A current-carrying capacity at 1.000 V (IEC) with a 4 mm<sup>2</sup> wire cross-section or 18.5 A at 600 V according to UL.



**Individualised configuration**

Standard + Services = custom design with simple configuration across the entire range of services: features include colour coding, application-oriented labelling and custom modifications or design. More information can be found at <http://galaxy.weidmueller.com>



## Ergonomic operation and simple front design

### OMNIMATE® Power opens up new 270° perspectives

With modular devices, the PCBs are often perpendicular, i.e. located on the right and left, close to the housing wall. Hence the need to arrange the male header in the device so that it points to the middle.

To avoid the need to change the direction of access during installation, we have developed a 270° male header. The combination of two opposing PCBs inside the housing, one with a 90° and the other with a 270° pin header. This allows you to keep the screwdriver comfortably in your right hand when wiring.

In addition to the ergonomic operation without the need to change hands, the consistent alignment of the connections also means that the layout of the front panel is particularly simple and clear.

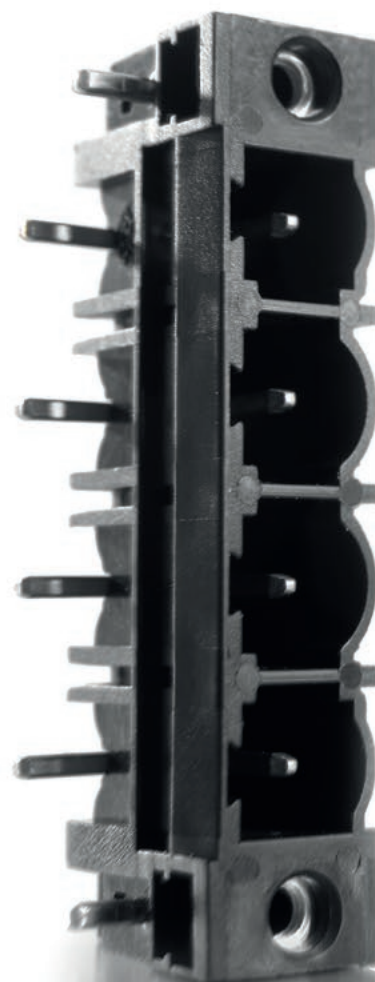
#### Your special advantages:

##### Compact and powerful

We offer you the smallest plug-in "PUSH IN" connection solution for field wiring up to 600 V UL with a connection cross-section of AWG 12 (2.5 mm<sup>2</sup>).



The solder flange solution for the pin connector on the PCB and the possible flange fixing of the plug section simplify the use of complex device applications with high mechanical demands



**Simple design, standard operation**

All "PUSH IN" connection components on the front panel are aligned in the same direction thanks to the 270° male header. This allows a continuous operation with the right hand.







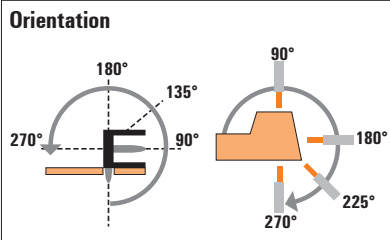
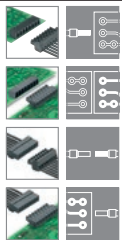
**A strong team**

Especially in industrial applications in a vibration environment, the combination of female header BLF7.62HP for 600 V UL and male header SL7.62HP are convincing as a strong "PUSH IN" solution.



<http://www.OMNIMATE.net>

-  = Wire-to-Board
-  = Board-to-Board
-  = Wire-to-Wire
-  = Board-to-Wire



Male header



**BL/SL 7.62 series**





Type	SL	SL
Orientation	90°/270°	180°
Flange options	G/F/LF	G/F/LF
Product code numbers	IEC: 800 V/24 A UL: 300 V/20 A	IEC: 800 V/24 A UL: 300 V/20 A

		SL	SL
Female plug	 <b>Screw Clamping yoke</b>	 <b>BLZ</b> 180° (G)/LR IEC: 630 V/24 A/0.08 - 2.5 mm <sup>2</sup> UL: 600 V/20 A/AWG 20 - 12	
	 <b>Spring PUSH IN</b>	 <b>BLF</b> 180° (G)/F/LR IEC: 1.000 V/24 A/0.08 - 2.5 mm <sup>2</sup> UL: 300 V/20 A/AWG 20	
Female header	 <b>Solder connection</b>	 <b>BLL</b> 90° (G)/F/LF IEC: 630 V/24 A UL: 300 V/20 A	
		 <b>BLL</b> 180° (G)/F/LF IEC: 630 V/24 A UL: 300 V/20 A	

**Female plug and header:**  
**(G)** = Closed (without flange)  
**F** = Screw flange with screw  
**LR** = Lock & Release lever

**Male header and plug:**  
**G** = Closed (without flange)  
**F** = Screw flange with nut  
**LF** = Solder flange with nut  
**LR** = Lock & Release lever

Male plug	
	
<b>Screw Clamping yoke</b>	<b>Spring PUSH IN</b>

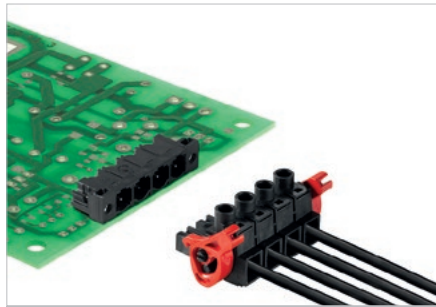


	<b>SLZ</b>	<b>SLF</b>
	180°	180°
	G/F/LR	G/F/LR
	IEC: 1.000 V/24 A/ 0.08 - 2.5 mm <sup>2</sup> UL: 600 V/17 A/ AWG 20 - 12	IEC: 1.000 V/24 A/ 0.08 - 2.5 mm <sup>2</sup> UL: 600 V/20 A/ AWG 20 - 12
	●	●
	●	●



**Plug-in connector, pitch 7.62 mm**  
**BL/SL 7.62 series - connection up to 4 mm<sup>2</sup>**

**SL 7.62HP/./90**



Male header with 90° outlet direction. The compact and efficient solution for UL-600 V applications in the lower power range in combination with a female plug fulfils the requirements for 600 V acc. to UL508 / UL840 and the enhanced electric shock protection requirements acc. to IEC 68100-5-1.

Variants: flange and solder flanges versions.

**Product data**

IEC: 630 V / 29 A  
 UL: 300 V / 20 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

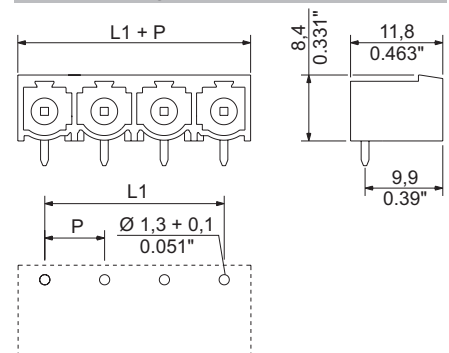
**Note:**

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SL 7.62HP/./90G**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>29</b>	<b>25</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>400</b>	<b>500 630</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	20	20 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO OR BX	1573010000
BLZ/SL KO BK BX	1545710000

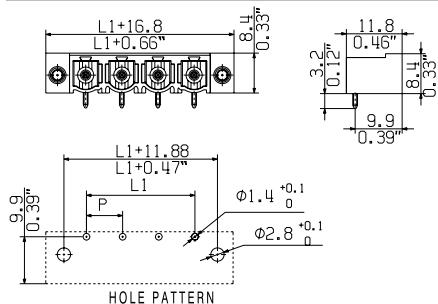
**Ordering data**

Solder pin length		3.2 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1026760000
3	15.24	0.600	100	1026770000
4	22.86	0.900	100	1026780000
5	30.48	1.200	50	1026790000
6	38.10	1.500	50	1059490000
7	45.72	1.800	50	1059500000
8	53.34	2.100	50	1059510000
9	60.96	2.400	50	1059520000
10	68.58	2.700	50	1059530000
11	76.20	3.000	50	1059550000
12	83.82	3.300	50	1059570000

SL 7.62HP/./90F



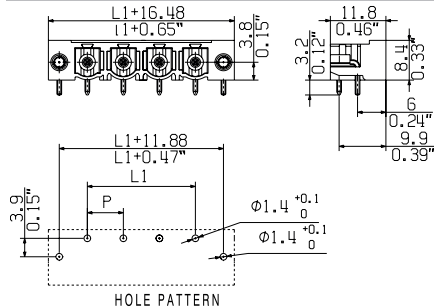
Dimensioned drawing



SL 7.62HP/./90LF



Dimensioned drawing



Ordering data

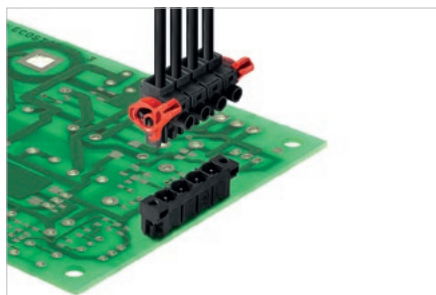
Solder pin length		3.2 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Order No.
2	7.62	0.300	1026850000
3	15.24	0.600	1026860000
4	22.86	0.900	1026870000
5	30.48	1.200	1026880000
6	38.10	1.500	1124250000
7	45.72	1.800	1124270000
8	53.34	2.100	1124280000
9	60.96	2.400	1124290000
10	68.58	2.700	1124300000
11	76.20	3.000	1124310000
12	83.82	3.300	1124320000

Ordering data

Solder pin length		3.2 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Order No.
2	7.62	0.300	1095920000
3	15.24	0.600	1095930000
4	22.86	0.900	1095940000
5	30.48	1.200	1095950000
6	38.10	1.500	1095960000
7	45.72	1.800	1095970000
8	53.34	2.100	1095980000
9	60.96	2.400	1095990000
10	68.58	2.700	1096000000
11	76.20	3.000	1096010000
12	83.82	3.300	1096020000

Plug-in connector, pitch 7.62 mm  
BL/SL 7.62 series - connection up to 4 mm<sup>2</sup>

SL 7.62HP/./180



Male header with 180° outlet direction. The compact and efficient solution for UL-600 V applications in the lower power range fulfils, in combination with a female plug, the requirements for 600 V in acc. with UL508-5-1 / UL840 and the enhanced electric shock protection requirements in acc. with IEC 68100-5-1.

Variants: flanges and solder flange versions.

Product data

IEC: 630 V / 29 A  
UL: 300 V / 20 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

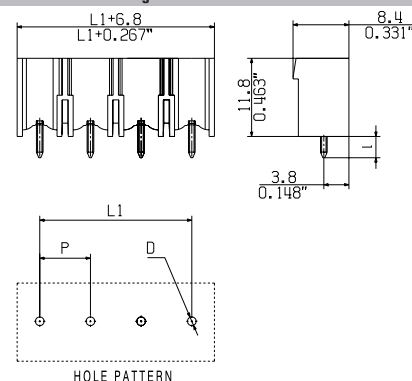
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 7.62HP/./180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>29</b>	<b>25</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>400</b>	<b>500 630</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 5</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	20	20 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO OR BX	1573010000
BLZ/SL KO BK BX	1545710000

Ordering data

Solder pin length		3.2 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1122550000
3	15.24	0.600	100	1122570000
4	22.86	0.900	100	1122580000
5	30.48	1.200	50	1048980000
6	38.10	1.500	50	1048990000
7	45.72	1.800	50	1122590000
8	53.34	2.100	50	1049000000
9	60.96	2.400	50	1122600000
10	68.58	2.700	50	1122610000
11	76.20	3.000	50	1122640000
12	83.82	3.300	50	1122650000

K

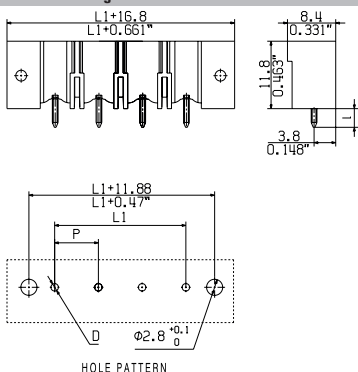
7.62

180°

SL 7.62HP../180F



Dimensioned drawing



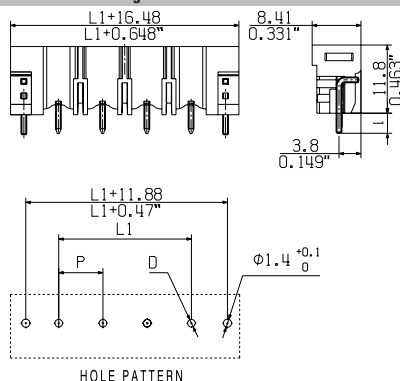
Ordering data

Solder pin length		3.2 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1140870000	
3	15.24	0.600	100	1140880000	
4	22.86	0.900	100	1140890000	
5	30.48	1.200	50	1140900000	
6	38.10	1.500	50	1140910000	
7	45.72	1.800	50	1140920000	
8	53.34	2.100	50	1140930000	
9	60.96	2.400	50	1140940000	
10	68.58	2.700	50	1140950000	
11	76.20	3.000	50	1140960000	
12	83.82	3.300	50	1140970000	

SL 7.62HP../180LF



Dimensioned drawing



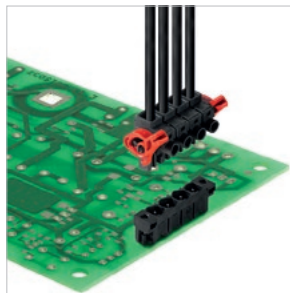
Ordering data

Solder pin length		3.2 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1141090000	
3	15.24	0.600	100	1141100000	
4	22.86	0.900	100	1141110000	
5	30.48	1.200	50	1141120000	
6	38.10	1.500	50	1141130000	
7	45.72	1.800	50	1141140000	
8	53.34	2.100	50	1141150000	
9	60.96	2.400	50	1141160000	
10	68.58	2.700	50	1141170000	
11	76.20	3.000	50	1141180000	
12	83.82	3.300	50	1141190000	



Plug-in connector, pitch 7.62 mm  
BL/SL 7.62 series - connection up to 4 mm<sup>2</sup>

SL 7.62HP/././270



Pin header with 270° outlet direction. This compact solution for UL-600 V applications in the lower performance range meets the requirements for 600 V in accordance with UL 508 / UL 840 as well as the more stringent touch-safety requirements of IEC 68100-5-1 for electrical drive systems when combined with a female plug.

Variants: solder flange versions.

Product data

IEC: 630 V / 27.5 A  
UL: 300 V / 20 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

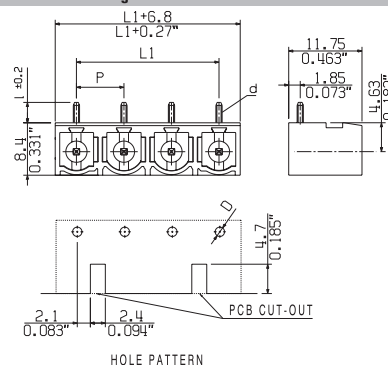
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 7.62HP/270G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>27.5</b>	<b>25</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III
Pollution severity		3	2
<b>Rated voltage</b>	<b>V</b>	<b>400</b>	<b>500</b>
Rated impulse voltage	kV	4	6
<b>UL / CUL (Use Group)</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20</b>
<b>AWG conductor</b>	<b>AWG</b>	-	-
<b>CSA (Use Group)</b>	<b>B</b>	<b>C</b>	<b>D</b>
Rated voltage	V	300	300
Rated current	A	20	20
AWG conductor	AWG	-	-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface			
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO OR BX	1573010000
BLZ/SL KO BK BX	1545710000

Ordering data

Solder pin length		3.2 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1472240000
3	15.24	0.600	100	1472250000
4	22.86	0.900	100	1472260000
5	30.48	1.200	50	1472270000
6	38.10	1.500	50	1472280000
7	45.72	1.800	50	1472290000
8	53.34	2.100	50	1472310000
9	60.96	2.400	50	1472320000
10	68.58	2.700	50	1472330000
11	76.20	3.000	50	1472340000
12	83.82	3.300	50	1472350000

K

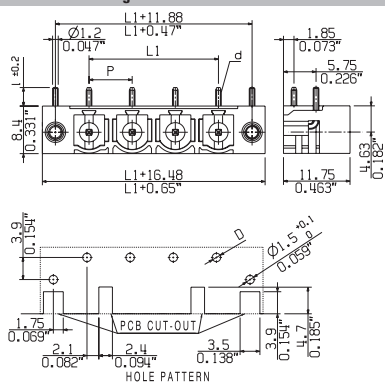
7.62

270°

SL 7.62HP/270LF



Dimensioned drawing

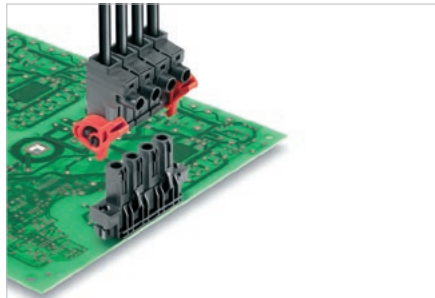


Ordering data

Solder pin length		3.2 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1472360000
3	15.24	0.600	100	1472370000
4	22.86	0.900	100	1472380000
5	30.48	1.200	50	1472390000
6	38.10	1.500	50	1472410000
7	45.72	1.800	50	1472420000
8	53.34	2.100	50	1472430000
9	60.96	2.400	50	1472440000
10	68.58	2.700	50	1472450000
11	76.20	3.000	50	1472460000
12	83.82	3.300	50	1472470000

**Plug-in connector, pitch 7.62 mm**  
**BL/SL 7.62 series - connection up to 4 mm<sup>2</sup>**

**SLZ 7.62HP../180**



Male plug with clamping yoke screw connection in 180° outlet direction. Also perfect for finger-safe solutions involving inverse voltages. Complies with UL1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC(S) systems.

- Available with screw flange (F) and lock and release-levers (LR).

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.	mm <sup>2</sup>	0.08...2.5
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...2.5</b>
Stranded H07 V-R		
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...2.5
Flexible with ferrule	mm <sup>2</sup>	0.5...2.5
Ferrule with plastic collar	mm <sup>2</sup>	0.5...1.5
Stripping length	mm	8
Screwdriver blade	mm	0.6 x 3.5
According to norm		DIN 5264
Tightening torque range	Nm	0.4...0.5
<b>Rated current, max.</b>	<b>A</b>	<b>20 17.5</b>
At ambient temperature	20°C	40°C
For conductor cross-section	mm <sup>2</sup>	2.5
Overvoltage category		III III II
Pollution severity		3 2 2
<b>Rated voltage</b>	<b>V</b>	<b>630 1000 1000</b>
Rated impulse voltage	kV	6 8 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	

<b>Rated voltage</b>	<b>V</b>	<b>600 600 600</b>
<b>Rated current</b>	<b>A</b>	<b>17 17 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-12</b>
<b>CSA (Use Group)</b>	<b>B C D</b>	
Rated voltage	V	600 600 600
Rated current	A	17 17 5
AWG conductor	AWG	20-12

**General data**

Type of insulation material	PBT
UL 94 flammability rating	V-0
Contact base material	Copper alloy
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

**Product data**

IEC: 1000 V / 20 A / 0.5 - 2.5 mm<sup>2</sup>  
 UL: 600 V / 17 A / AWG 20 - 12



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

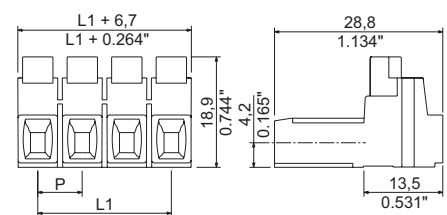
**Note:**

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SLZ 7.62HP../180G**



**Dimensioned drawing**



**Accessories**

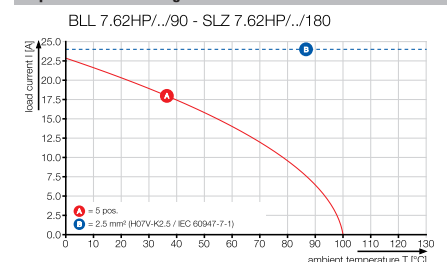
**Note:** Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDS 0.6X3.5X100	9008330000
	SDIS 0.6X3.5X100	9008390000

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	126	1043350000
3	15.24	0.600	84	1043360000
4	22.86	0.900	60	1043370000
5	30.48	1.200	48	1043380000

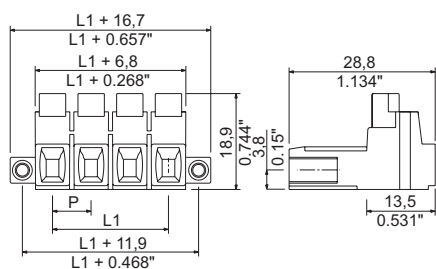
**Representative deratings curve**



SLZ 7.62HP../180F



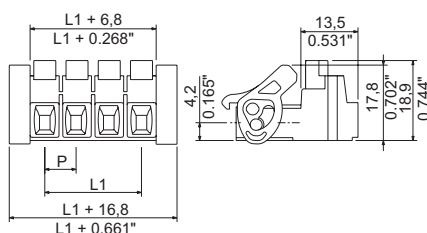
Dimensioned drawing



SLZ 7.62HP../180LR



Dimensioned drawing



Ordering data

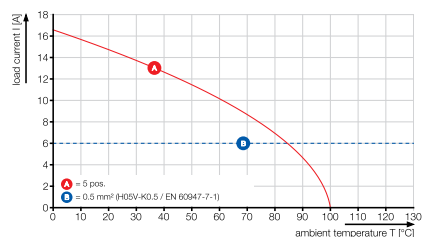
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043430000	
3	15.24	0.600	54	1043440000	
4	22.86	0.900	42	1043450000	
5	30.48	1.200	36	1043460000	

Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043510000	
3	15.24	0.600	54	1043520000	
4	22.86	0.900	42	1043530000	
5	30.48	1.200	36	1043540000	

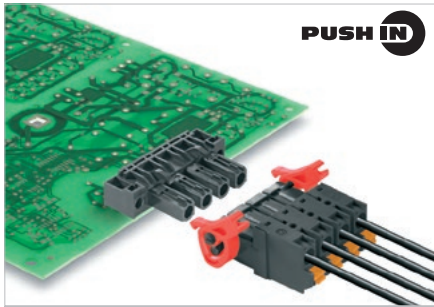
Additional deratings curves

BLL 7.62HP../90 - SLZ 7.62HP../180



**Plug-in connector, pitch 7.62 mm**  
**BL/SL 7.62 series - connection up to 4 mm<sup>2</sup>**

**SLF 7.62HP../180**



**PUSH IN**

Male plug with "PUSH IN" spring connection in 180° outlet direction. Also perfect for finger-safe solutions involving inverse voltages. Complies with UL1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC systems.

- Available with screw flange (F) and lock and release levers (LR).

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.08...2.5	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...2.5</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...2.5	
Flexible with ferrule	mm <sup>2</sup>	0.5...1.5	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...1.5	
Stripping length	mm	10	
Screwdriver blade	mm	0.6 x 3.5	
According to norm		DIN 5264	
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>24</b>	<b>23.8</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	2.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>1000 1000</b>
Rated impulse voltage	kV	6	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-12</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	20	20 5
AWG conductor	AWG	20-12	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 24 A / 0.5 - 2.5 mm<sup>2</sup>  
 UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

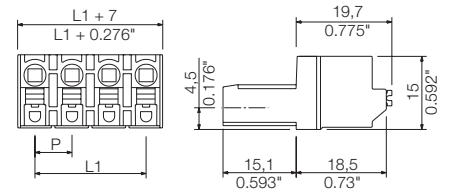
**Note:**

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SLF 7.62HP../180G**




**Dimensioned drawing**



**Accessories**

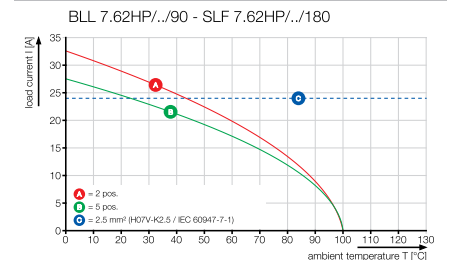
**Note:** Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDS 0.6X3.5X100	<b>9008330000</b>
	SDIS 0.6X3.5X100	<b>9008390000</b>

**Ordering data**

Solder pin length					
Colour					Black
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	126	<b>1043590000</b>	
3	15.24	0.600	84	<b>1043600000</b>	
4	22.86	0.900	60	<b>1043610000</b>	
5	30.48	1.200	48	<b>1043620000</b>	

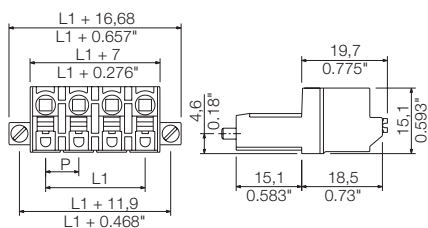
**Representative deratings curve**



SLF 7.62HP../180F



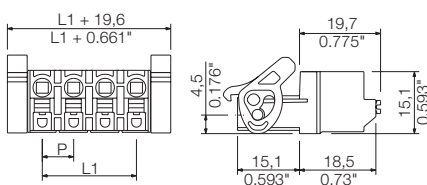
Dimensioned drawing



SLF 7.62HP../180LR



Dimensioned drawing



Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043670000	
3	15.24	0.600	54	1043680000	
4	22.86	0.900	42	1043690000	
5	30.48	1.200	36	1043700000	

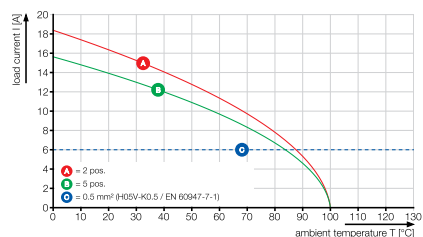
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043750000	
3	15.24	0.600	54	1043760000	
4	22.86	0.900	42	1043770000	
5	30.48	1.200	36	1043780000	



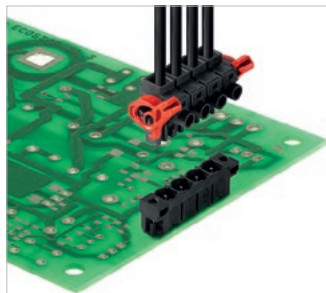
Additional deratings curves

BLL 7.62HP../90 - SLF 7.62HP../180



**Plug-in connector, pitch 7.62 mm**  
**BLZ/SL 7.62 series - connection up to 4 mm<sup>2</sup>**

**BLZ 7.62HP../180**



Female plug with clamping yoke screw connection in 180° outlet direction. Complies with UL1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC(S) systems.

- Available with lock and release-levers (LR) and screw flange on request.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.	mm <sup>2</sup>	0.08...4
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...4</b>
Stranded H07 V-R		
Flexible H05(07) V-K	mm <sup>2</sup>	0.2...4
Flexible with ferrule	mm <sup>2</sup>	0.2...2.5
Ferrule with plastic collar	mm <sup>2</sup>	0.2...2.5
Stripping length	mm	7
Screwdriver blade	mm	0.6 x 3.5
According to norm		DIN 5264
Tightening torque range	Nm	0.4...0.5
<b>Rated current, max.</b>	<b>A</b>	<b>29 25</b>
At ambient temperature	20°C	40°C
For conductor cross-section	mm <sup>2</sup>	2.5
Overtoltage category		III III II
Pollution severity		3 2 2
<b>Rated voltage</b>	<b>V</b>	<b>400 500 630</b>
Rated impulse voltage	kV	6 6 4
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	
<b>Rated voltage</b>	<b>V</b>	<b>600 600 600</b>
<b>Rated current</b>	<b>A</b>	<b>20 20 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-12</b>
<b>CSA (Use Group)</b>	<b>B C D</b>	
Rated voltage	V	600 600 600
Rated current	A	20 20 5
AWG conductor	AWG	20-12
<b>General data</b>		
Type of insulation material		PBT
UL 94 flammability rating		V-0
Contact base material		Copper alloy
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

**Product data**

IEC: 630 V / 29 A / 0.2 - 4 mm<sup>2</sup>  
 UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

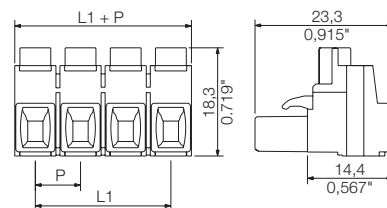
**Note:**

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**BLZ 7.62HP../180**



**Dimensioned drawing**



**K**

**7.62**

**180°**

**4 mm<sup>2</sup>**

**Accessories**

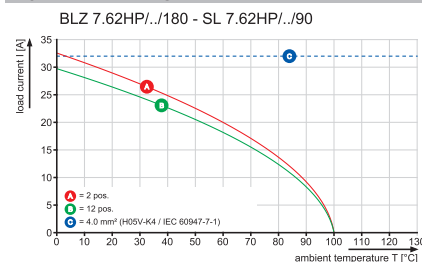
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO OR BX	<b>1573010000</b>
BLZ/SL KO BK BX	<b>1545710000</b>
Screwdriver	
SDS 0.6X3.5X100	<b>9008330000</b>
SDIS 0.6X3.5X100	<b>9008390000</b>

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	<b>1059580000</b>
3	15.24	0.600	100	<b>1059590000</b>
4	22.86	0.900	100	<b>1059600000</b>
5	30.48	1.200	50	<b>1049010000</b>
6	38.10	1.500	50	<b>1049020000</b>
7	45.72	1.800	50	<b>1059610000</b>
8	53.34	2.100	50	<b>1049030000</b>
9	60.96	2.400	50	<b>1059620000</b>
10	68.58	2.700	50	<b>1059630000</b>
11	76.20	3.000	50	<b>1059640000</b>
12	83.82	3.300	50	<b>1059670000</b>

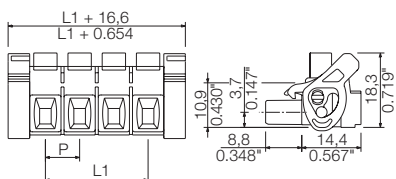
**Representative deratings curve**



BLZ 7.62HP../180LR



Dimensioned drawing



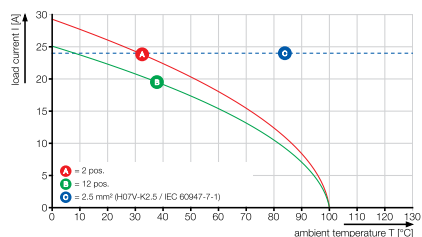
Ordering data

Solder pin length				
Colour				Black
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	60	1093430000
3	15.24	0.600	45	1093440000
4	22.86	0.900	35	1093450000
5	30.48	1.200	30	1093460000
6	38.10	1.500	25	1164960000
7	45.72	1.800	20	1164970000
8	53.34	2.100	20	1164980000
9	60.96	2.400	15	1164990000
10	68.58	2.700	15	1165000000
11	76.20	3.000	15	1165010000
12	83.82	3.300	15	1165020000



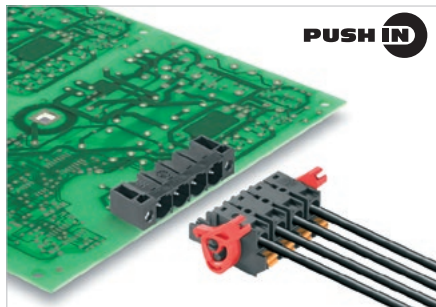
Additional deratings curves

BLZ 7.62HP../180 - SL 7.62HP../90



**Plug-in connector, pitch 7.62 mm**  
**BL/SL 7.62 series - connection up to 4 mm<sup>2</sup>**

**BLF 7.62HP../180**



Female plug with "PUSH IN" spring connection in 180 ° outlet direction. Complies with UL1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC(S) systems.

- Available with screw flange (F) and lock and release-levers (LR).

**Product data**

IEC: 1000 V / 24 A / 0.5 - 2.5 mm<sup>2</sup>  
 UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

**Note:**

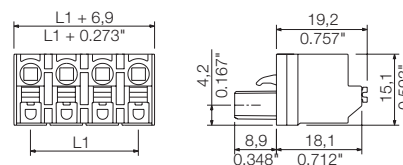
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**BLF 7.62HP../180**

with test point



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.	mm <sup>2</sup>	0.08...2.5
<b>Solid core H05(07) V-U</b>	mm <sup>2</sup>	<b>0.5...1.5</b>
Stranded H07 V-R		
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...2.5
Flexible with ferrule	mm <sup>2</sup>	0.5...2.5
Ferrule with plastic collar	mm <sup>2</sup>	0.5...2.5
Stripping length	mm	10
Screwdriver blade	mm	0.6 x 3.5

According to norm

Tightening torque range		
<b>Rated current, max.</b>	<b>A</b>	<b>24 23.8</b>
At ambient temperature	20°C	40°C

For conductor cross-section	mm <sup>2</sup>	2.5
Overtoltage category		III III II
Pollution severity		3 2 2

<b>Rated voltage</b>	<b>V</b>	<b>630 1000 1000</b>
Rated impulse voltage	kV	6 8 6

<b>UL / CUL (Use Group)</b>	<b>B C D</b>
-----------------------------	--------------

<b>Rated voltage</b>	<b>V</b>	<b>600 600 600</b>
----------------------	----------	--------------------

<b>Rated current</b>	<b>A</b>	<b>20 20 5</b>
----------------------	----------	----------------

<b>AWG conductor</b>	<b>AWG</b>	<b>20-12</b>
----------------------	------------	--------------

<b>CSA (Use Group)</b>	<b>B C D</b>
------------------------	--------------

Rated voltage	V	600 600 600
Rated current	A	21 21 5
AWG conductor	AWG	20-12

**General data**

Type of insulation material	PBT
UL 94 flammability rating	V-0
Contact base material	Copper alloy
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

**Accessories**

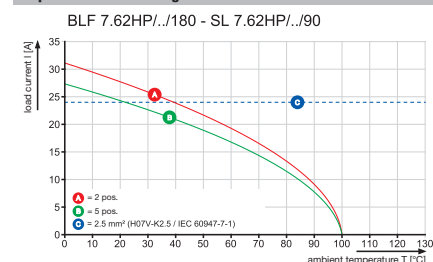
**Note:** Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDS 0.5X3.0X80	<b>9008320000</b>
	SDIS 0.5X3.0X100	<b>9008380000</b>
Crimping tool		
	PZ 6/5	<b>9011460000</b>

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	120	<b>1043830000</b>
3	15.24	0.600	78	<b>1043840000</b>
4	22.86	0.900	60	<b>1043850000</b>
5	30.48	1.200	48	<b>1043860000</b>
6	38.10	1.500	36	<b>1227340000</b>
7	45.72	1.800	30	<b>1227350000</b>
8	53.34	2.100	30	<b>1227360000</b>
9	60.96	2.400	24	<b>1227370000</b>
10	68.58	2.700	24	<b>1227380000</b>
11	76.20	3.000	18	<b>1227390000</b>
12	83.82	3.300	18	<b>1227410000</b>

**Representative deratings curve**

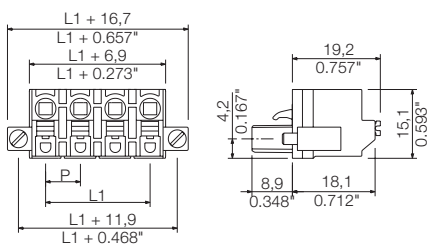


### BLF 7.62HP../180F

with test point



Dimensioned drawing

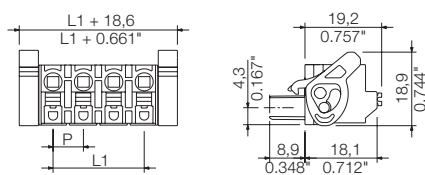


### BLF 7.62HP../180LR

with test point



Dimensioned drawing



#### Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043910000	
3	15.24	0.600	54	1043920000	
4	22.86	0.900	42	1043930000	
5	30.48	1.200	36	1043940000	
6	38.10	1.500	30	1227490000	
7	45.72	1.800	24	1227510000	
8	53.34	2.100	24	1227520000	
9	60.96	2.400	18	1227530000	
10	68.58	2.700	18	1227540000	

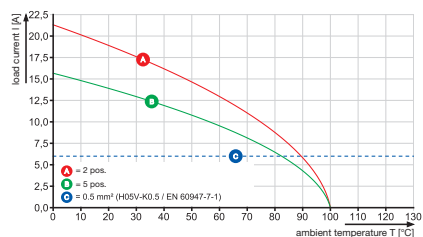
#### Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043990000	
3	15.24	0.600	54	1044000000	
4	22.86	0.900	42	1044010000	
5	30.48	1.200	36	1044020000	
6	38.10	1.500	30	1227420000	
7	45.72	1.800	24	1227430000	
8	53.34	2.100	24	1227440000	
9	60.96	2.400	18	1227450000	
10	68.58	2.700	18	1227460000	



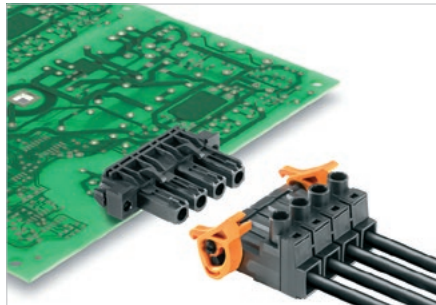
#### Additional deratings curves

BLF 7.62HP../180 - SL 7.62HP../90



**Plug-in connector, pitch 7.62 mm**  
**BL/SL 7.62 series - connection up to 4 mm<sup>2</sup>**

**BLL 7.62HP../90**



Touch-safe female header with 90° outlet direction for PCBs. Meets the requirements of IEC 61800-5-1 and comes with UL approval in accordance with UL508-5-1 / UL840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. The pin arrangement ensures more than 3 mm of touch-safety in accordance with IEC 61800-5-1.

Variants: flange and solder flange fastening.

**Product data**

IEC: 630 V / 24 A  
 UL: 300 V / 20 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

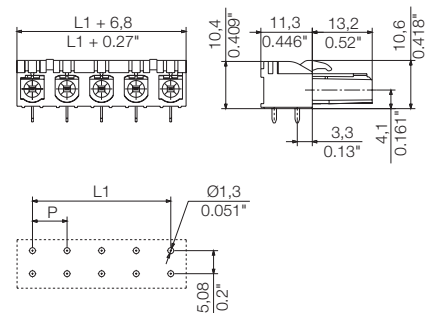
**Note:**

- Additional colours on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**BLL 7.62HP../90G**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with ferrule collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>24</b>	<b>24</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>400</b>	<b>630 630</b>
Rated impulse voltage	kV	6	6 4
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>150 300</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 10</b>
<b>AWG conductor</b>	<b>AWG</b>	-	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	300	150 300
Rated current	A	20	20 10
AWG conductor	AWG	-	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.4 x 1.00	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

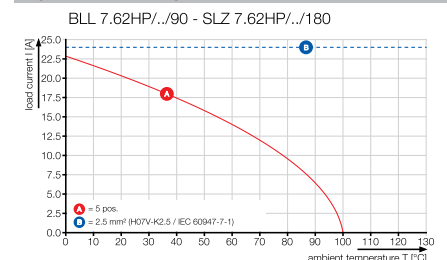
**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

**Ordering data**

<b>Solder pin length</b>	<b>3.2 mm</b>			
<b>Colour</b>	<b>Black</b>			
<b>Pitch</b>	<b>7.62 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
2	7.62	0.300	126	<b>1043230000</b>
3	15.24	0.600	84	<b>1043240000</b>
4	22.86	0.900	60	<b>1043250000</b>
5	30.48	1.200	48	<b>1043260000</b>

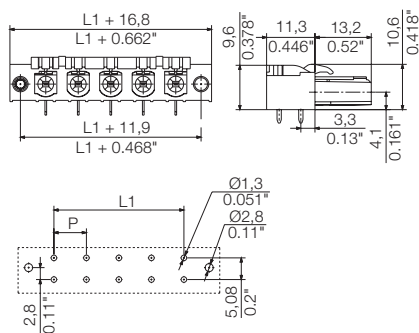
**Representative deratings curve**



**BLL 7.62HP../90F**



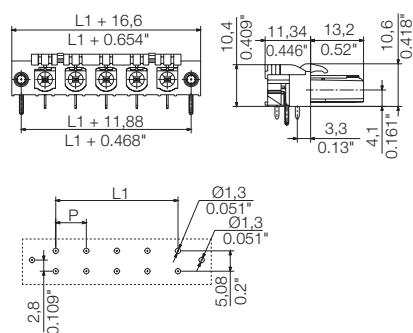
Dimensioned drawing



**BLL 7.62HP../90LF**



Dimensioned drawing



**Ordering data**

Solder pin length		3.2 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	72	1043270000
3	15.24	0.600	54	1043280000
4	22.86	0.900	42	1043290000
5	30.48	1.200	36	1043300000

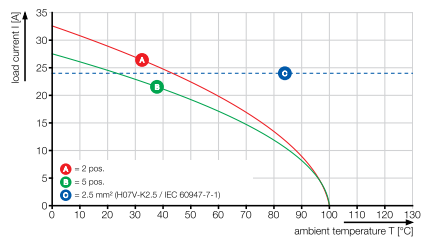
**Ordering data**

Solder pin length		3.2 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	72	1095640000
3	15.24	0.600	54	1095650000
4	22.86	0.900	42	1095660000
5	30.48	1.200	36	1095670000

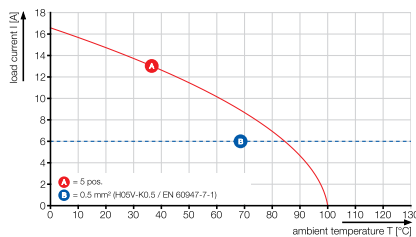


**Additional deratings curves**

BLL 7.62HP../90 - SLF 7.62HP../180

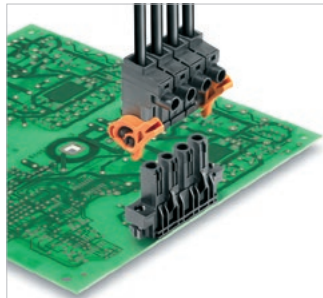


BLL 7.62HP../90 - SLZ 7.62HP../180



Plug-in connector, pitch 7.62 mm  
BL/SL 7.62 series - connection up to 4 mm<sup>2</sup>

BLL 7.62HP../180



Touch-safe female header with 180° outlet direction for PCBs. Meets the requirements of IEC 61800-5-1 and comes with UL approval in accordance with UL508-5-1 / UL840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. The pin arrangement ensures more than 3 mm of touch-safety in accordance with IEC 61800-5-1.

Variants: flange and solder flange fastening.

Product data

IEC: 630 V / 24 A  
UL: 300 V / 20 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

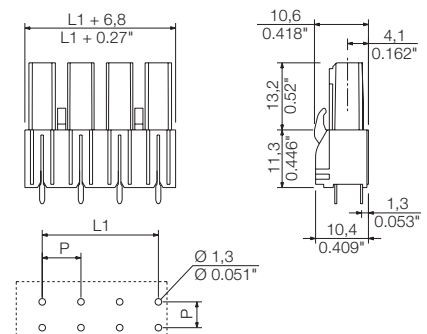
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLL 7.62HP../180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>24</b>	<b>24</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>400</b>	<b>630 630</b>
Rated impulse voltage	kV	6	6 4
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>150 300</b>
<b>Rated current</b>	<b>A</b>	<b>20</b>	<b>20 10</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	150 300
Rated current	A	20	20 10
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.4 x 1.00	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

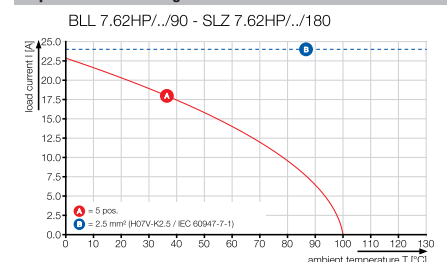
Accessories

Note: Refer to the Accessories chapter for additional accessories.

Ordering data

<b>Solder pin length</b>				<b>3.2 mm</b>
<b>Colour</b>				<b>Black</b>
<b>Pitch</b>				<b>7.62 mm</b>
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
2	7.62	0.300	126	1122070000
3	15.24	0.600	84	1122080000
4	22.86	0.900	60	1122090000
5	30.48	1.200	48	1122100000

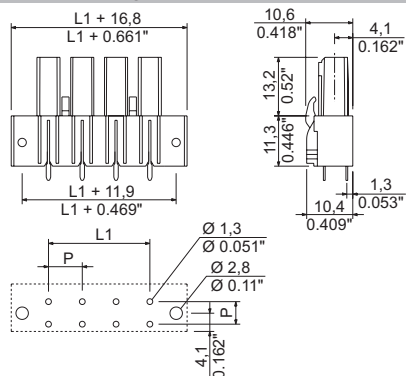
Representative deratings curve



BLL 7.62HP../180F



Dimensioned drawing



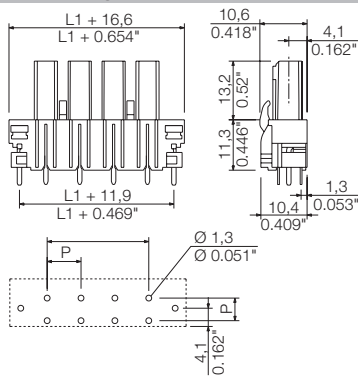
Ordering data

Solder pin length		3.2 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	72	1122110000
3	15.24	0.600	54	1122120000
4	22.86	0.900	42	1122130000
5	30.48	1.200	36	1122140000

BLL 7.62HP../180LF



Dimensioned drawing



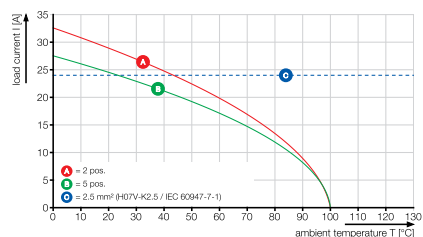
Ordering data

Solder pin length		3.2 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	72	1134080000
3	15.24	0.600	54	1134090000
4	22.86	0.900	42	1134110000
5	30.48	1.200	36	1134120000

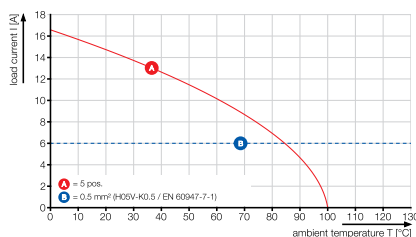


Additional deratings curves

BLL 7.62HP../90 - SLF 7.62HP../180



BLL 7.62HP../90 - SLZ 7.62HP../180

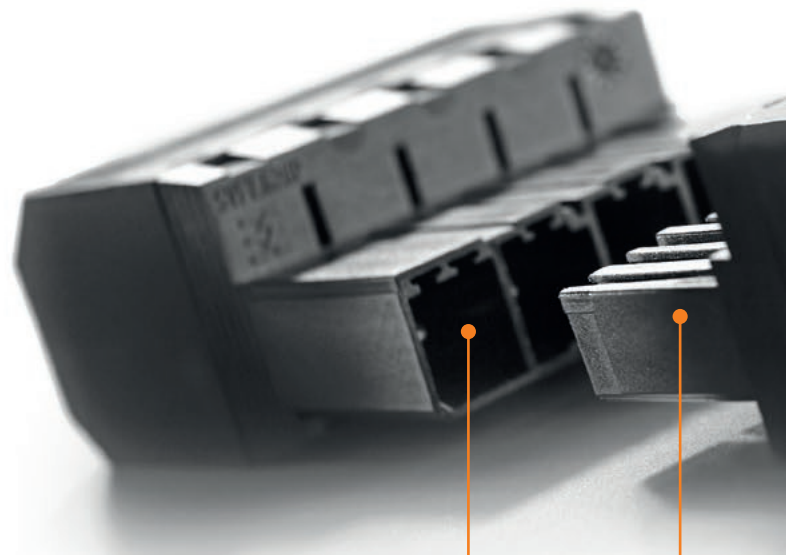


# OMNIMATE® Power BV/SV 7.62HP – power class from 6 mm<sup>2</sup> and 41 A

## Custom-fit high-powered solutions

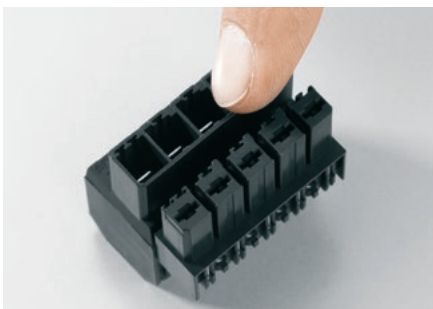
**More power reserves for more load capacity: The OMNIMATE® Power SV / BV 7.62HP mid-level class of power connection systems is the top performer of the HP series. It features a large clamping range, increased overload capacity and the widest selection of variants and accessories.**

HP means High Performance – this performance covers a great deal: the full rated current up to 50 °C without derating, unlimited 600 V approval according to UL, and the additional finger safety for 400 V-TN systems (+ 3.0 mm) in compliance with the application directive IEC 61800-5-1.



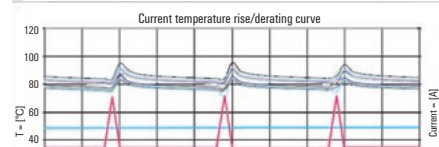
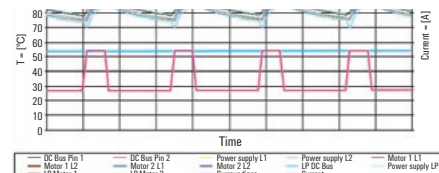
### Maximum safety

Safe for both man and machine with bi-directional finger safety: also when not plugged in and covering inverse voltages from power electronics.



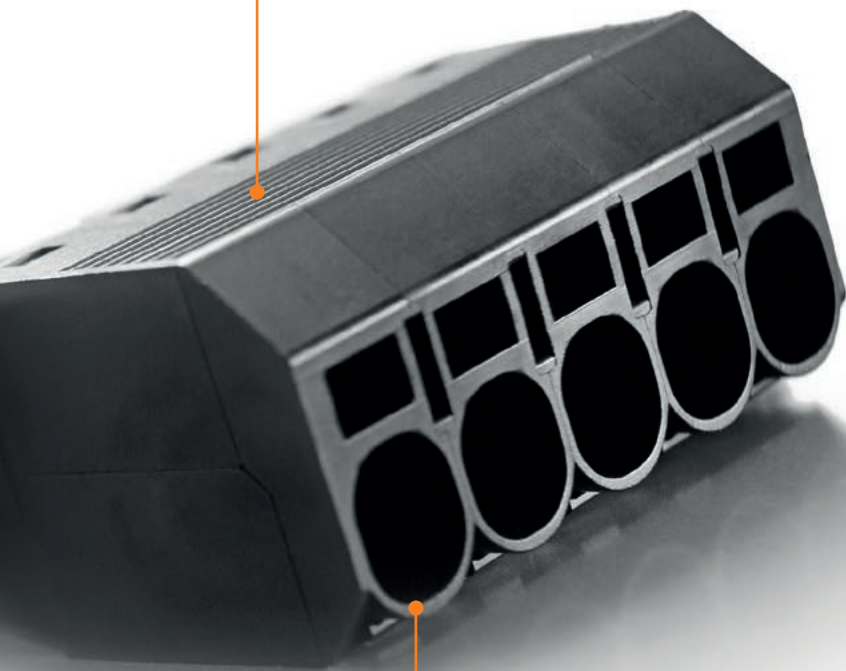
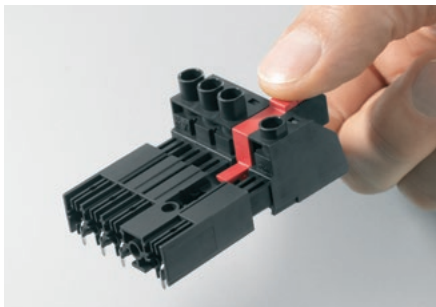
### Maximum performance

Full current rating at 40 °C ambient temperature is a mandatory requirement in drive applications. What really makes the difference here is real-world, application-based overload and overheating capacities.



**Maximum user-friendliness**

Quick, simple plug and release: with the one-handed safety flange – convenient for the user and safe for the application.



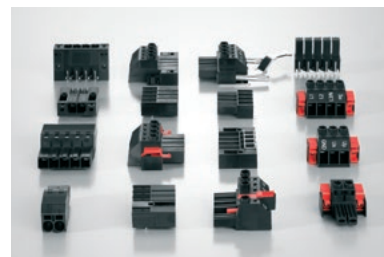
**Maximum efficiency**

Tool-free simplicity: quick PUSH IN connection mechanism and automatic, convenient snap-in with one-handed safety interlock.



**High system performance**

An overview of the 28-kVA class of OMNIMATE® Power: The HP system has been leading the way with its tool-free rapid interlock, installation-safe creepage and clearance distances, and application-based versioning scheme. This integrated strategy of system expansion includes a one-handed safety flange and wide range of innovative extras.



**Individualised configuration**

Standard + Services = custom design with simple configuration across the entire range of services: features include colour coding, application-oriented labelling and custom modifications or design.



## Convenient connection of stripped short wires OMNIMATE® Power with openable PUSH IN connection

Shielded cables for power electronics are stripped as short as possible for reasons of electromagnetic compatibility (EMC). Connection with large PUSH IN connectors is correspondingly complex. The same applies to cables with small cross-sections where often a “third hand” is missing or the use of special tools gets necessary.

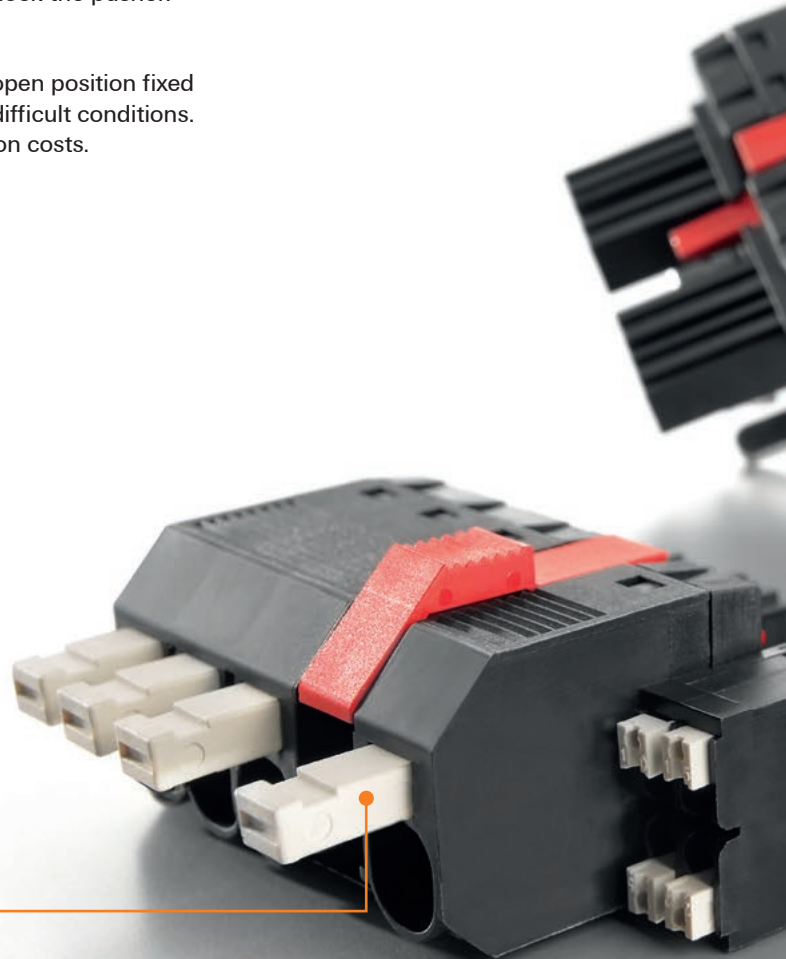
Our BVFL 7.62HP simplifies and accelerates this process without the need of special tools. The combination of “PUSH IN” connection technology and a Pusher which can be locked in the open position allows an easy insertion of short stripped cables or of thin wires into the open terminal point. Subsequently, by pushing the pusher sideways with the hand, you can simply unlock the pusher.

The proven PUSH IN function remains unrestricted, while the in open position fixed terminal point allows a comfortable and easy connection under difficult conditions. Make use of the significant time savings to reduce your installation costs.

### Large PUSH IN connector, small wire cross-section

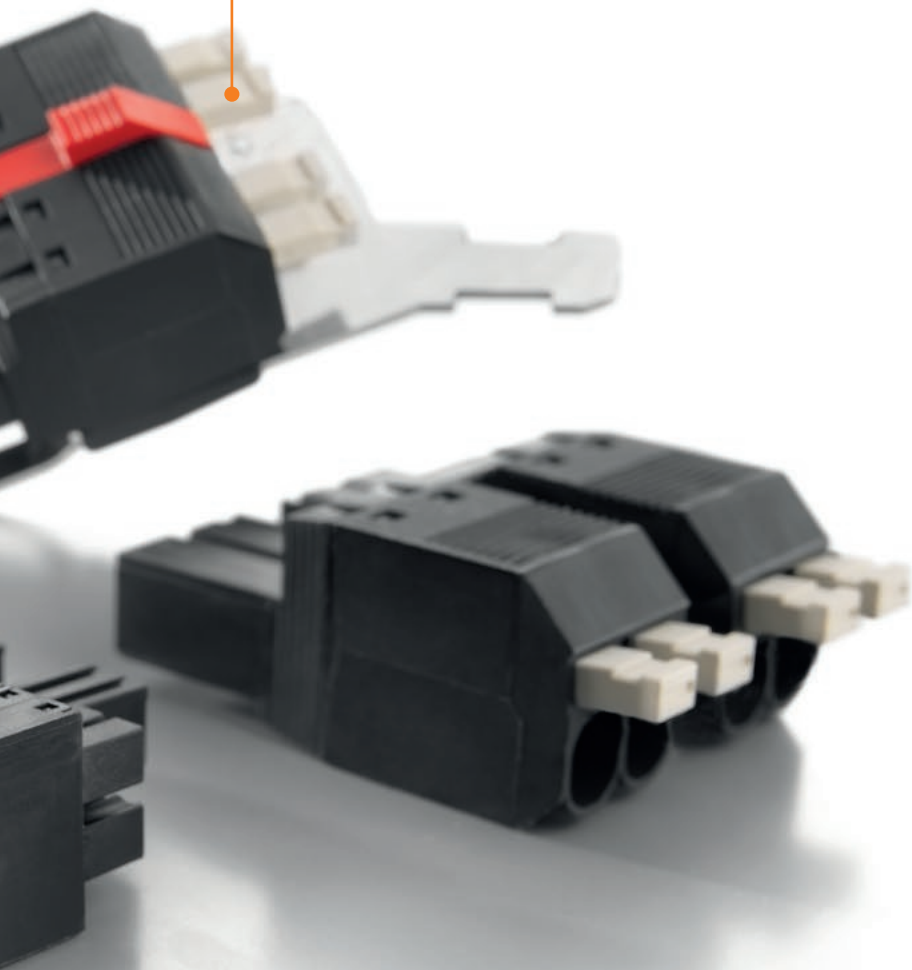
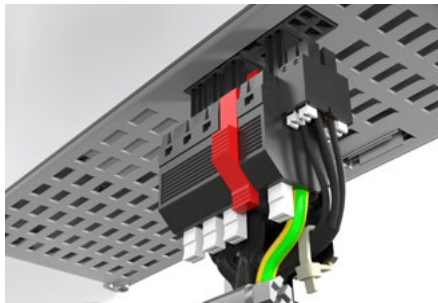
Even with ferrules, because of the high flexibility it is difficult to insert conductors with a low cross section into these connector. Our simple solution in three steps:

- 1) Open the terminal point
- 2) Insert conductors
- 3) Close the terminal point using sideways pressure



**Short-stripped wires**

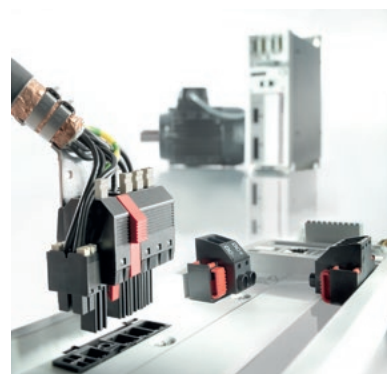
The PUSH IN connector with a pusher in an open fixed position allows a quick and easy wiring without special tools. It also avoids the risk of a not fully inserted conductor.



**Your special advantages:**

**More advantages in handling,  
reduced installation costs**

As the only PUSH IN connector so far available on the market, our BVFL 7.62HP has a special clamping point that can be locked in the open position.



Work quickly while avoiding errors - convenient connectivity solutions with latchable open terminal point reduces the installation time in the field significantly for example in frequency inverters

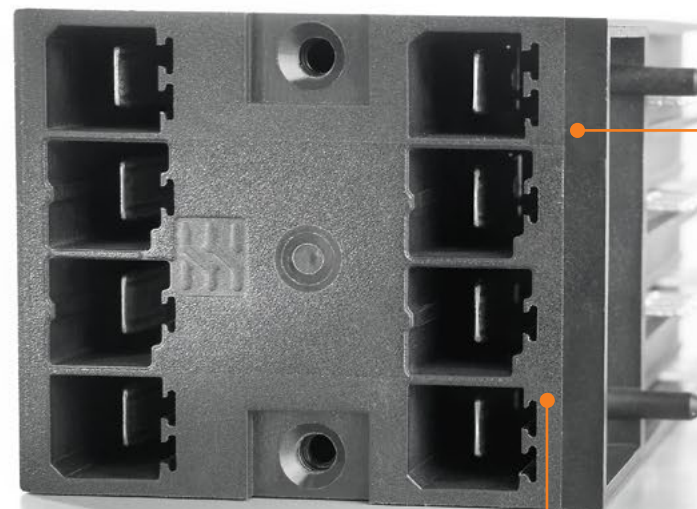


## Implement complex supply solutions in the smallest of spaces OMNIMATE® Power – the compact, two-row connection solution

The demand for ever-smaller drive regulators with increasingly high performance ratings requires complex solutions in terms of the connection systems. The major challenge here is ensuring compliance with the existing standards.

The new double-level OMNIMATE® Power SVD 7.62HP male header minimises the amount of space required on the PCB, thereby creating space for other components. This extra space can be used for the integration of additional functions on the front of the device.

The two connection levels mean that the SVD 7.62HP can be used to implement complex solutions in extremely small spaces. Device widths of just 50 mm are sufficient to supply 2 motors, while still meeting the approval criteria in accordance with UL 600 V.



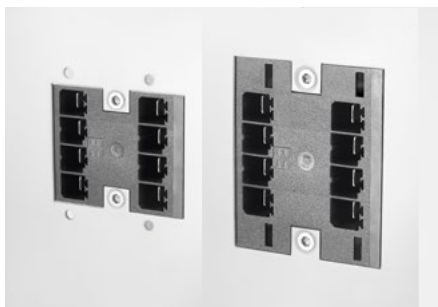
### Optional cable shielding

The combination with the BVF 7.62HP ensures a reliable connection between the cable shielding and the device housing, thereby guaranteeing high EMC safety. The screw mount is easy to operate, and meets all requirements in the field.



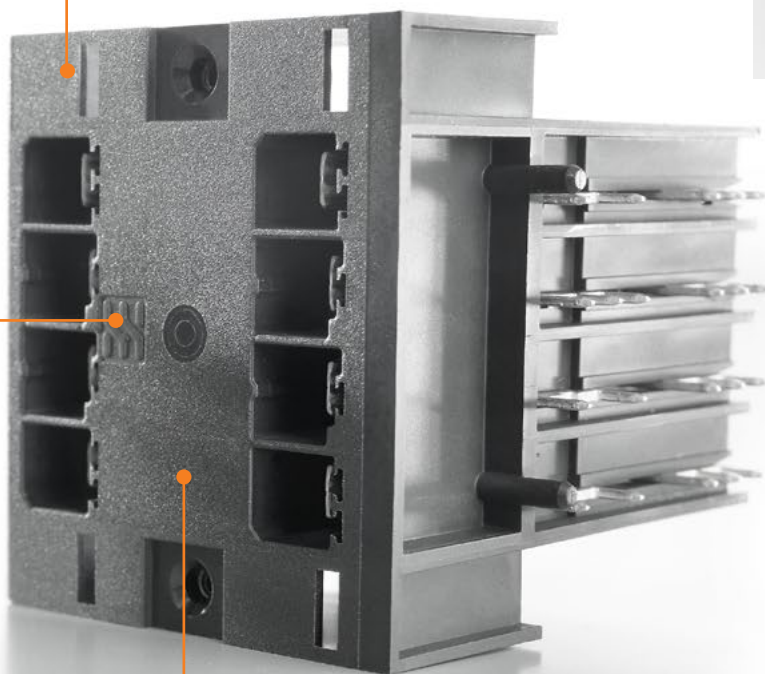
**The OMNIMATE® Power series for versatile combination options**

The new SVD 7.62HP can be combined with all BVZ 7.62HP and BVF 7.62HP female plugs in the OMNIMATE® Power series.



**Solutions with PUSH IN connection**

Can be implemented in combination with female plug BVF (BVFL) 7.62HP. For especially quick and easy installation without the need for tools. Available with or without flange fastening – optional with screw flange.



**Solutions with screw connections**

Can be implemented in combination with female plug BVZ 7.62HP. Available without extra fastening or, optionally, as a flange design – e. g. for applications in medium-voltage systems.



**Your special advantages:**

**More design flexibility for the front of the device and the PCB**

The superior solution for when multiple axes need to be plugged into the device in a very small space. Despite the very compact dimensions, the cable shielding can be connected to the front of the device.



With servo regulators in particular, the SVD 7.62HP allows for more complexity than ever before, thanks to the two connection levels for female plugs with conventional screw connection or PUSH IN connection technology. With additional flange fastening on request, and with the option of connecting the cable shielding to the device housing.



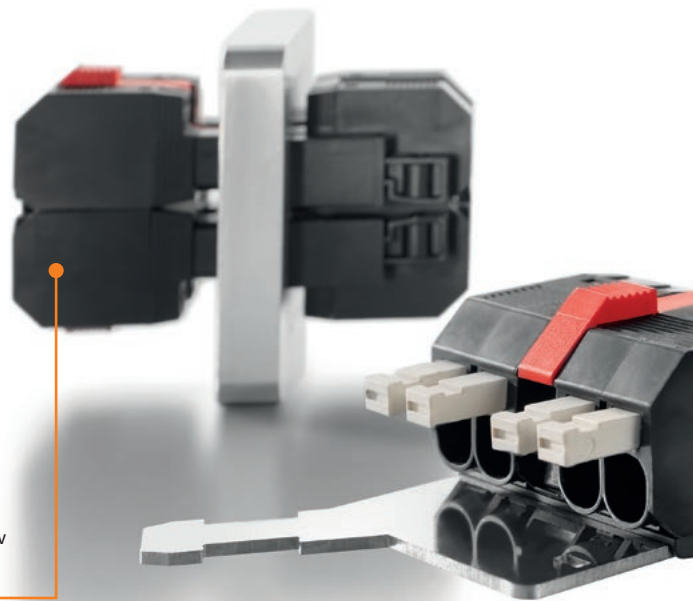
## Safe-to-touch, solid and pluggable

### Our feed-through terminals also support thick housing walls

A cable feed-through connection for housing or cabinet walls should be robust and easy to handle. This claim gets fast to a challenge when we talk about the thickness of die-cast aluminium housings.

Our pluggable panel feed-through connection SVF 7.62HP SFMF (SFBMF) in IP 20 copes this job perfectly. Thanks to the two-sided finger safety clearance of 3 mm, this solution can be used safely even in applications with backwards voltages and is therefore suitable for use in an industrial environment without an inverted mating profile. One hand is enough to plug the counterpart BVF 7.62HP 180 MF and to latch them.

Feel free to use this universal plug device at control cabinets. Or use it for the power-input and power-output connection of electronic housings.



#### Pin number extension to > 4 pins

Use our SVF/BVF 7.62HP COUPLE SET for extensions. Each of the two mating partners can thus be connected back-to-back to a 2-row connector with a maximum of 2 x 4 poles.



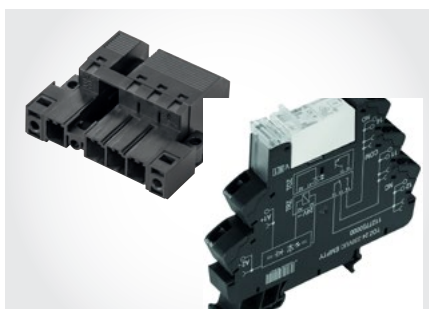
**One-handed operation with locking**

The mating partner BVF 7.62HP impresses with its one-hand operation and automatic snap-in. If required by a directive, it can be optionally secured with an additional screw.



**Panel feed-through up to 16 mm as per UL**

Without additional measures for maintaining the clearance and creepage distances as per UL, two versions for walls up to 2 mm or up to 16 mm are available. The maximum wire cross section is AWG 8 or 10 mm<sup>2</sup>.



**Your special advantages:**

**Back-to-back**





Our plug-in panel feed-through is particularly impressive with automatic locking and the ability to couple two plug-in mating partners.

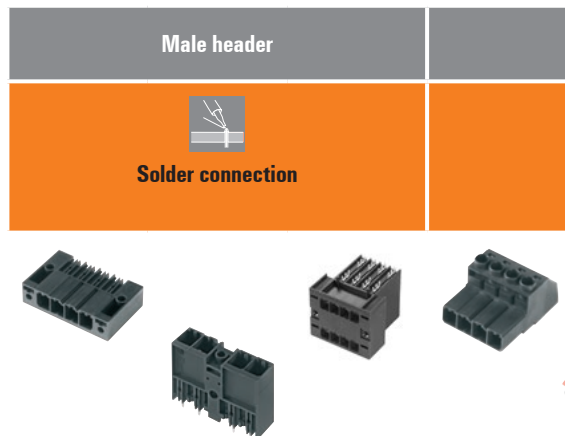
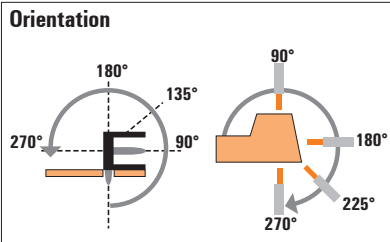
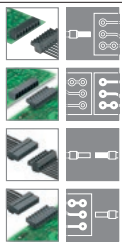


Our flexible, plug-in supply connections reduce installation and service costs in the signal range up to 41 A. They thus address the much increased demands in the field of signal processing devices, such as photovoltaic inverters.



<http://www.OMNIMATE.net>

-  = Wire-to-Board
-  = Board-to-Board
-  = Wire-to-Wire
-  = Board-to-Wire



**BV/SV 7.62 series**



Type	SV- SMT	SV	SVD	SVZ
Orientation	90° /180°/270°	90° /180°/270°	270°	180°
Flange options	G/F/SF/MF/MSF	G/F/SF/MF/MSF	G/F	G/F/SF
Product code numbers	IEC: 1.000 V/41 A UL: 300 V/40.5 A	IEC: 1.000 V/41 A UL: 300 V/40.5 A	IEC: 1.000 V/47 A UL: 300 V/30 A	IEC: 1.000 V/41 A 0.2 - 6 mm <sup>2</sup> UL: 600 V/42 A/ AWG 24 - 8

Category	Image	Type	Orientation	Flange options	Product code numbers	SV- SMT	SV	SVD	SVZ
Female plug		<b>BVZ</b>	180°	(G)/F/SF	IEC: 1.000 V/57 A/0.2 - 10 mm <sup>2</sup> UL: 600 V/40.5 A/AWG 24 - 8	○	○	○	●
		<b>BVZ</b>	180°	FC/SFC	IEC: 1.000 V/57 A/0.2 - 10 mm <sup>2</sup> UL: 600 V/40.5 A/AWG 24 - 8				
		<b>BVZ</b>	180°	SH...	IEC: 1.000 V/57 A/0.2 - 10 mm <sup>2</sup> UL: 600 V/40.5 A/AWG 24 - 8	○	○		●
		<b>BVZ</b>	180°	SH... C	IEC: 1.000 V/57 A/0.2 - 10 mm <sup>2</sup> UL: 600 V/40.5 A/AWG 24 - 8				
Spring PUSH IN		<b>BVF</b>	180°	(G)/F/SF/MF/MSF	IEC: 1.000 V/57 A/0.2 - 10 mm <sup>2</sup> UL: 600 V/39 A/AWG 24 - 8	○	○	○	●
		<b>BVFL</b>	180°	(G)/F/SF/MF/MSF	IEC: 1.000 V/57 A/0.2 - 10 mm <sup>2</sup> UL: 600 V/39 A/AWG 24 - 8	○	○	○	●
Female header		<b>BVL</b>	90°	(G)/FI/SFI	IEC: 1.000 V/41 A UL: 300 V/35 A	●	●		●
		<b>BVL</b>	180°	(G)/FI/SFI	IEC: 1.000 V/41 A UL: 300 V/35 A	●	●		●
		<b>BVL</b>	270°	(G)/FI/SFI	IEC: 1.000 V/41 A UL: 300 V/35 A				●

**Female plug and header:**

- (G)** = Closed (without flange)
- F** = Flange with clasp
- SF** = Flange with clasp and additional screw
- SFC** = Flange with clasp and additional screw
- FI** = Inverted flange with clasp
- SFI** = Inverted flange with clasp and additional screw

- FC** = Flange with clasp
- SH...** = Shielded flange with additional nut
- SH... C** = Shielded flange with additional screw
- MF** = Centre flange for clasp
- MSF** = Centre flange for clasp with additional nut

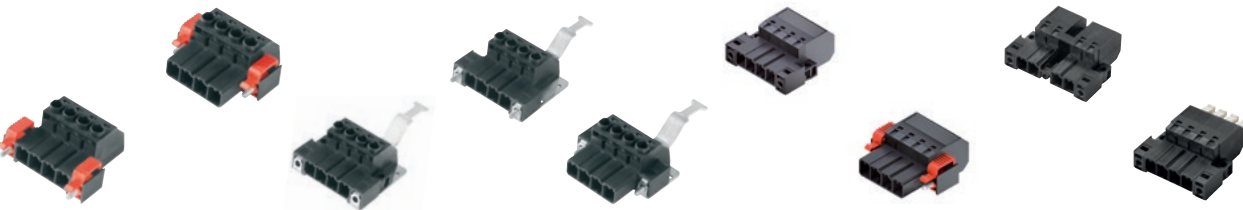
Male plug



Screw  
Clamping yoke



Spring  
PUSH IN



SVZ	SVZ	SVZ	SVZ	SVZ	SVF	SVF	SVF	SVFL
180°	180°	180°	180°	180°	180°	180°	180°	180°
G/FC/SFC	G/FI/SFI	SH	SHC	SHI	G/F/SF	G/FI/SFI	MF/MSF/SFMF/SFBMF	G/F/MF
IEC: 1.000 V/41 A/ 0.2 - 6 mm <sup>2</sup> UL: 600 V/42 A/ AWG 24 - 8	IEC: 1.000 V/41 A/ 0.2 - 6 mm <sup>2</sup> UL: 600 V/42 A/ AWG 24 - 8	IEC: 1.000 V/41 A/ 0.2 - 6 mm <sup>2</sup> UL: 600 V/42 A/ AWG 24 - 8	IEC: 1.000 V/41 A/ 0.2 - 6 mm <sup>2</sup> UL: 600 V/42 A/ AWG 24 - 8	IEC: 1.000 V/41 A/ 0.2 - 6 mm <sup>2</sup> UL: 600 V/42 A/ AWG 24 - 8	IEC: 1.000 V/41 A/ 0.5 - 10 mm <sup>2</sup> UL: 600 V/36 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.5 - 10 mm <sup>2</sup> UL: 600 V/36 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.5 - 10 mm <sup>2</sup> UL: 600 V/36 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.5 - 10 mm <sup>2</sup> UL: 600 V/36 A/ AWG 24 - 10
		●	●		●			●
●			●					
		●			●			●
●								
		●	●		●		●	●
		●	●		●		●	●
	●			●		●		
	●			●		●		
	●			●		●		

Male header and plug:

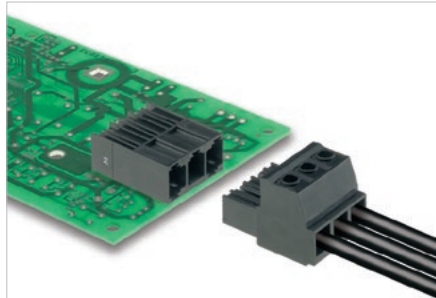
- G = Closed (without flange)
- F = Flange with clasp
- SF = Flange with clasp and additional screw
- FI = Inverted flange with clasp
- SFI = Inverted flange with clasp and additional screw
- FC = Flange with clasp

- SFC = Flange with clasp and additional screw
- SH... = Shielded flange with additional nut
- MF = Centre flange for clasp
- MSF = Centre flange for clasp with additional nut



**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV-SMT 7.62HP/./90**



Male header with 90° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in accordance with UL61800-5-1/UL840. The pin arrangement ensures more than 3 mm of finger safety in accordance with IEC 61800-5-1.

Maximum operational reliability thanks to derating up to 125°C, a 100% failsafe pin arrangement, unique coding diversity and additional fastening.

Variants: flange, screw flange and middle flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Product data**

IEC: 1000 V / 41 A  
UL:



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

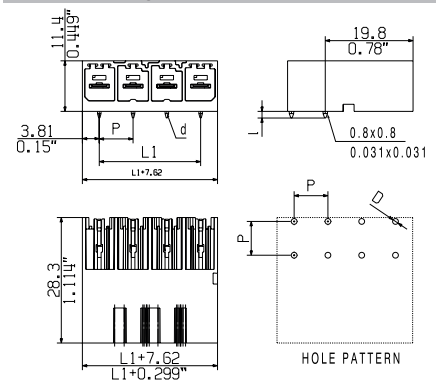
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SV-SMT 7.62HP/./90G Box**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>

<b>Rated voltage</b>			
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>

Rated voltage		
Rated current		
AWG conductor	AWG	-

<b>General data</b>		
Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Copper alloy
Material of contact surface		tinned
Pin dimensions = d	mm	0.8 x 1.0
Solder eyelet Ø = D	mm	1.3
Solder eyelet Ø tolerance	mm	+ 0,1

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000



**Ordering data**

<b>Solder pin length</b>	<b>2.6 mm</b>			
<b>Colour</b>	<b>Black</b>			
<b>Pitch</b>	<b>7.62 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	120	2499320000
3	15.24	0.600	50	2499500000
4	22.86	0.900	50	2499550000
5	30.48	1.200	48	2499560000

K

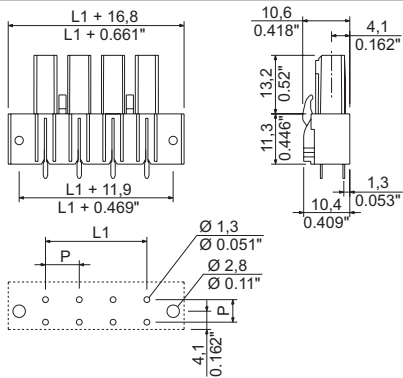
7.62

90°

SV-SMT 7.62HP../90G Tape



Dimensioned drawing



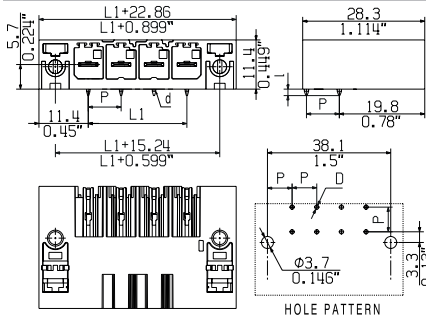
Ordering data

Solder pin length		2.6 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	110 2545800000
3	15.24	0.600	110 2546110000
4	22.86	0.900	110 2546120000
5	30.48	1.200	110 2546130000

SV-SMT 7.62HP../90F Box



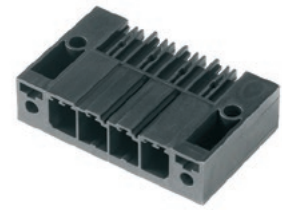
Dimensioned drawing



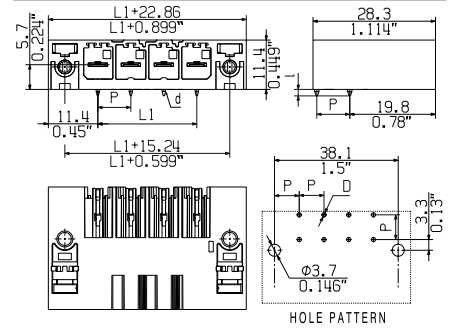
Ordering data

Solder pin length		2.6 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	50 2499520000
3	15.24	0.600	50 2499570000
4	22.86	0.900	50 2499580000
5	30.48	1.200	50 2499590000

SV-SMT 7.62HP../90SF Box



Dimensioned drawing

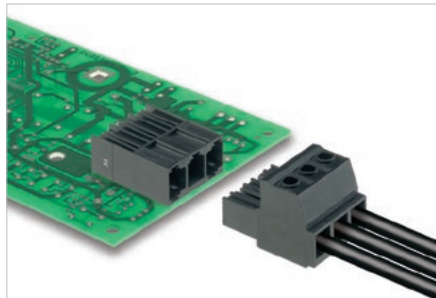


Ordering data

Solder pin length		2.6 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	22.86	0.900	50 2499600000
3	15.24	0.600	50 2499610000
4	22.86	0.900	36 2499620000
5	30.48	1.200	50 2499630000

Plug-in connector, pitch 7.62 mm  
BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>

SV-SMT 7.62HP/./90



Male header with 90° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in accordance with UL61800-5-1/UL840. The pin arrangement ensures more than 3 mm of finger safety in accordance with IEC 61800-5-1.

Maximum operational reliability thanks to derating up to 125°C, a 100% failsafe pin arrangement, unique coding diversity and additional fastening.

Variants: flange, screw flange and middle flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>

<b>Rated voltage</b>			
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>	-	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>

Rated voltage			
Rated current			
AWG conductor	AWG	-	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A

UL:



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

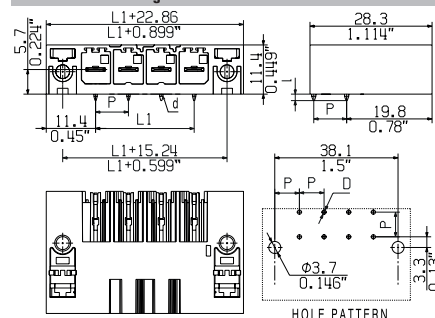
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SV-SMT 7.62HP/./90SF Tape



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

Ordering data

<b>Solder pin length</b>		2.6 mm	
<b>Colour</b>		Black	
<b>Pitch</b>		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	110 2545810000
3	15.24	0.600	110 2545950000
4	22.86	0.900	95 2545960000
5	15.24	0.600	95 2545970000

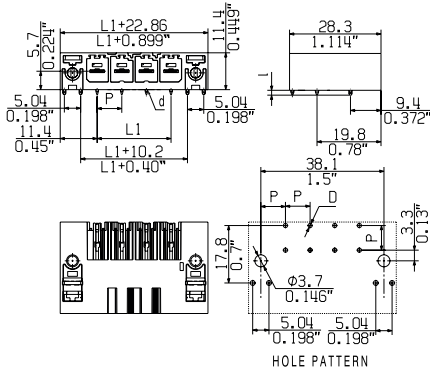
SV-SMT 7.62HP/./90LF Box



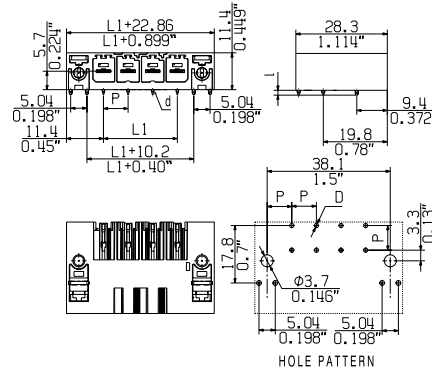
SV-SMT 7.62HP/./90LSF Box



Dimensioned drawing



Dimensioned drawing



Ordering data

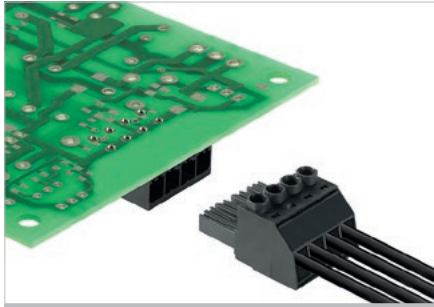
Solder pin length		2.6 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	50	2499640000
3	15.24	0.600	50	2499650000
4	22.86	0.900	50	2499660000
5	30.48	1.200	50	2499670000

Ordering data

Solder pin length		2.6 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	50	2499680000
3	15.24	0.600	50	2499690000
4	22.86	0.900	50	2499700000
5	30.48	1.200	50	2499710000

**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV-SMT 7.62HP../270**



Male header with 270° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in accordance with UL61800-5-1/UL840. The pin arrangement ensures finger safety of >3 mm in accordance with IEC 61800-5-1. Maximum operational reliability thanks to derating up to 125°C, a 100% failsafe pin arrangement, unique coding diversity and additional fastening.

Variants: flange, screw flange and middle flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Product data**

IEC: 1000 V / 41 A  
 UL:



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

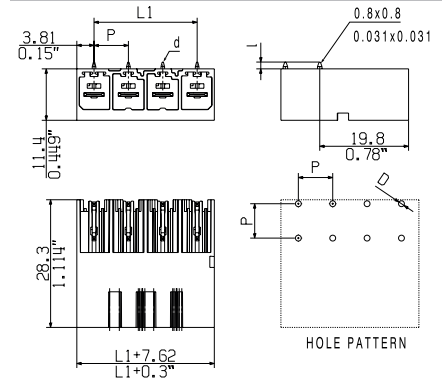
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SV-SMT 7.62HP../270G Box**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>


<b>Rated voltage</b>			
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>

Rated voltage		
Rated current		
AWG conductor	AWG	-

<b>General data</b>		
Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Copper alloy
Material of contact surface		tinned
Pin dimensions = d	mm	0.8 x 1.0
Solder eyelet Ø = D	mm	1.3
Solder eyelet Ø tolerance	mm	+ 0,1

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000

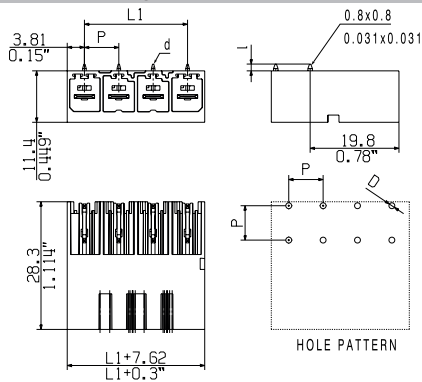
**Ordering data**

<b>Solder pin length</b>	<b>2.6 mm</b>			
<b>Colour</b>	<b>Black</b>			
<b>Pitch</b>	<b>7.62 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	120	2499330000
3	15.24	0.600	50	2499340000
4	22.86	0.900	50	2499350000
5	30.48	1.200	50	2499360000

SV-SMT 7.62HP/././270G Tape



Dimensioned drawing



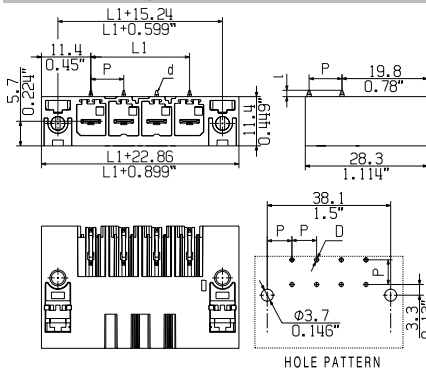
Ordering data

Solder pin length	2.6 mm			
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	110	2546140000
3	15.24	0.600	110	2546150000
4	22.86	0.900	110	2546160000
5	30.48	1.200	110	2546170000

SV-SMT 7.62HP/././270F Box



Dimensioned drawing



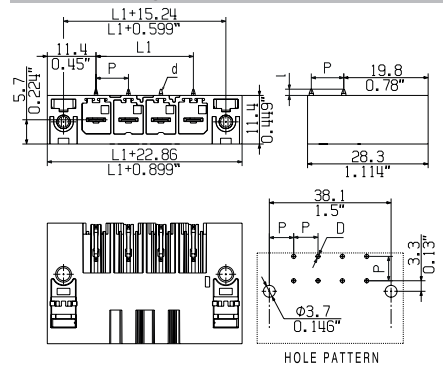
Ordering data

Solder pin length	2.6 mm			
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	50	2499540000
3	15.24	0.600	50	2499910000
4	22.86	0.900	50	2499920000
5	30.48	1.200	50	2499930000

SV-SMT 7.62HP/././270SF Box



Dimensioned drawing

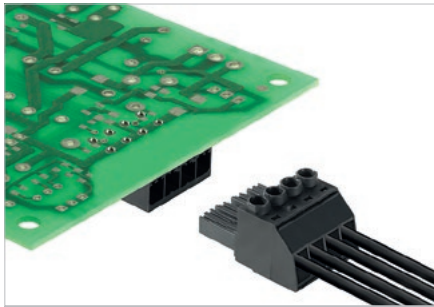


Ordering data

Solder pin length	2.6 mm			
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	50	2499940000
3	15.24	0.600	50	2499950000
4	22.86	0.900	50	2499960000
5	38.10	1.800	50	2499970000

**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV-SMT 7.62HP../270**



Male header with 270° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in accordance with UL61800-5-1/UL840. The pin arrangement ensures finger safety of >3 mm in accordance with IEC 61800-5-1. Maximum operational reliability thanks to derating up to 125°C, a 100% failsafe pin arrangement, unique coding diversity and additional fastening.

Variants: flange, screw flange and middle flange fastening.

The high-temperature-resistant OMNIMATE® Power male header with THR (through-hole reflow) technology, suitable for the SMT process.

**Product data**

IEC: 1000 V / 41 A  
 UL:

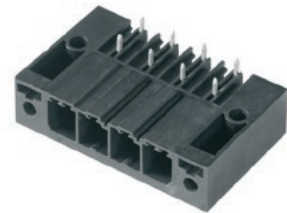


For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

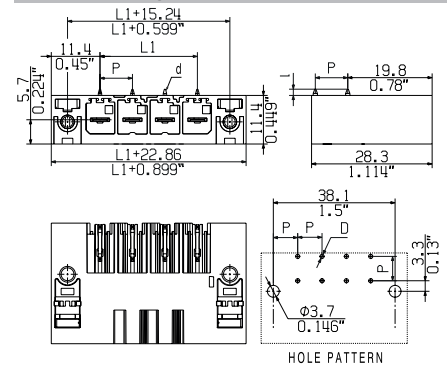
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SV-SMT 7.62HP../270SF Tape**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III
Pollution severity		3	2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630</b>
Rated impulse voltage	kV	6	6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C</b>

<b>Rated voltage</b>			
<b>Rated current</b>			
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C</b>

Rated voltage		
Rated current		
AWG conductor	AWG	-

<b>General data</b>		
Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Copper alloy
Material of contact surface		tinned
Pin dimensions = d	mm	0.8 x 1.0
Solder eyelet Ø = D	mm	1.3
Solder eyelet Ø tolerance	mm	+ 0,1

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000



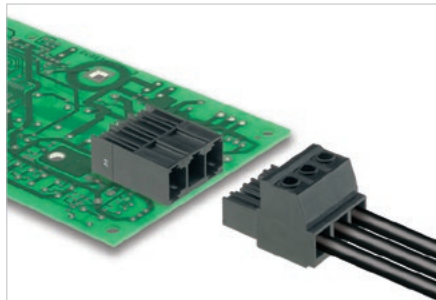
**Ordering data**

<b>Solder pin length</b>	<b>2.6 mm</b>			
<b>Colour</b>	<b>Black</b>			
<b>Pitch</b>	<b>7.62 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	110	2546020000
3	15.24	0.600	110	2546030000
4	22.86	0.900	95	2546040000
5	30.48	1.200	95	2546050000



**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP/./90**



Male header with 90° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in acc. with UL61800-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, unique coding diversity, additional fastening.

Variants: flange, screw flange and middle flange fastening.

**Product data**

IEC: 1000 V / 57 A  
 UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

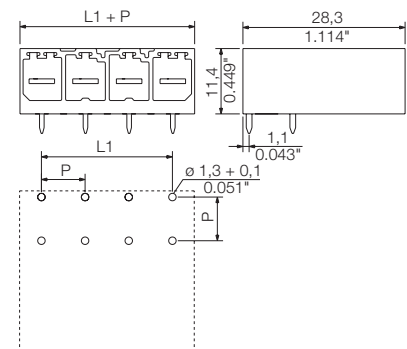
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Diameter of solder eyelet D = 1.4+0.1 mm starting with 8-pole

**SV 7.62HP/./90G**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtolerance category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

**Ordering data**

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1 (inch)	Qty.	Order No.	
2	7.62	120	1930270000	
3	15.24	78	1930280000	
4	22.86	60	1930290000	
5	30.48	48	1930300000	
6	38.10	36	1930310000	
7	45.72	30	1930320000	
8	53.34	30	1930330000	
9	60.96	24	1930340000	
10	68.58	24	1930350000	
11	76.20	18	1930360000	
12	83.82	18	1930370000	

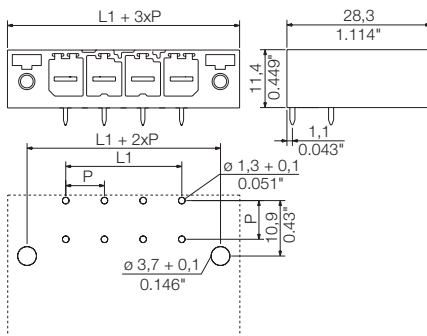
SV 7.62HP../90F



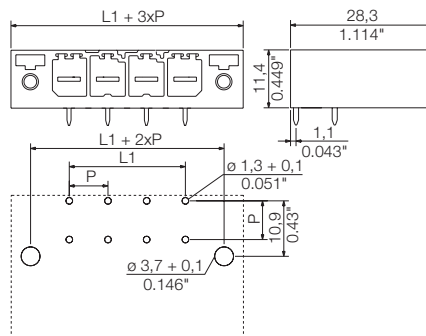
SV 7.62HP../90SF



Dimensioned drawing



Dimensioned drawing



Ordering data

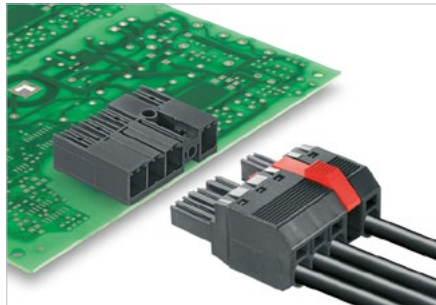
Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1 (inch)	Qty.	Order No.
2	7.62	0.300	60 1930380000
3	15.24	0.600	48 1930390000
4	22.86	0.900	36 1930400000
5	30.48	1.200	30 1930410000
6	38.10	1.500	30 1930420000
7	45.72	1.800	24 1930430000
8	53.34	2.100	24 1930440000
9	60.96	2.400	18 1930450000
10	68.58	2.700	18 1930460000
11	76.20	3.000	18 1930470000
12	83.82	3.300	12 1930480000

Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1 (inch)	Qty.	Order No.
2	7.62	0.300	60 1930490000
3	15.24	0.600	48 1930500000
4	22.86	0.900	36 1930510000
5	30.48	1.200	30 1930520000
6	38.10	1.500	30 1930530000
7	45.72	1.800	24 1930540000
8	53.34	2.100	24 1930550000
9	60.96	2.400	18 1930560000
10	68.58	2.700	18 1930570000
11	76.20	3.000	18 1930580000
12	83.82	3.300	12 1930590000

**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP/./90MF**



Male header with 90° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in acc. with UL61800-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, unique coding diversity, additional fastening.

Variants: flange, screw flange and middle flange fastening.

**Product data**

IEC: 1000 V / 57 A  
 UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

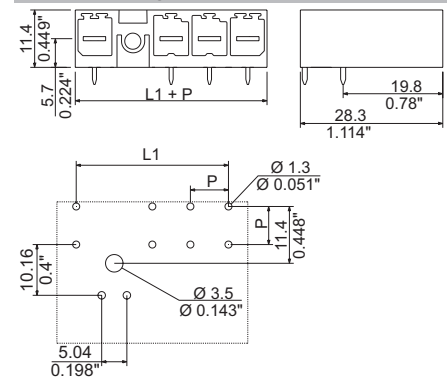
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SV 7.62HP/./90MF2**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**


Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>

<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5</b>	<b>5</b>
<b>AWG conductor</b>	<b>AWG</b>			
<b>CSA (Use Group)</b>		<b>B</b>	<b>C</b>	<b>D</b>
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG			

<b>General data</b>				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000

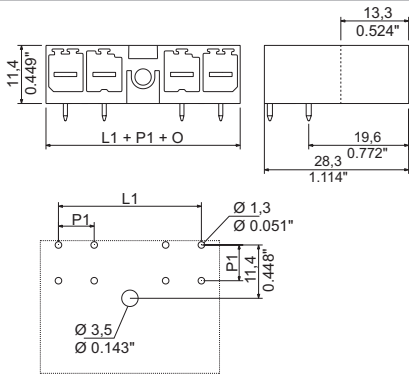
**Ordering data**

<b>Solder pin length</b>		3.5 mm		
<b>Colour</b>		Black		
<b>Pitch</b>		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	78	1048390000
3	22.86	0.900	60	1048500000
4	30.48	1.200	48	1464270000
5	38.10	1.500	36	1464280000
6	45.72	1.800	30	1543090000

SV 7.62HP../90MF3



Dimensioned drawing



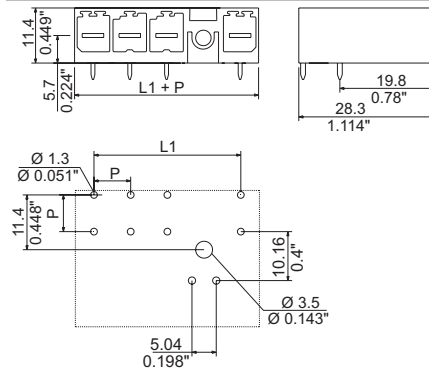
Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	60	1048490000
4	30.48	1.200	48	1048570000
5	38.10	1.500	36	1048690000
6	45.72	1.800	30	1543120000

SV 7.62HP../90MF4



Dimensioned drawing

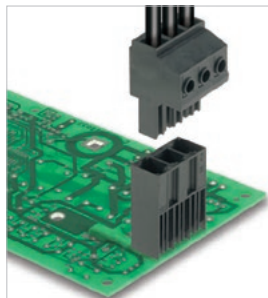


Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	48	1464290000
5	38.10	1.500	36	1048690000
6	45.72	1.800	30	1048760000

Plug-in connector, pitch 7.62 mm  
BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>

SV 7.62HP../180



Male header with 180° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in acc. with UL61800-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, unique coding diversity, additional fastening and integrated positioning aid.

Variants: flange, screw flange and middle flange fastening.

Product data

IEC: 1000 V / 57 A  
UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

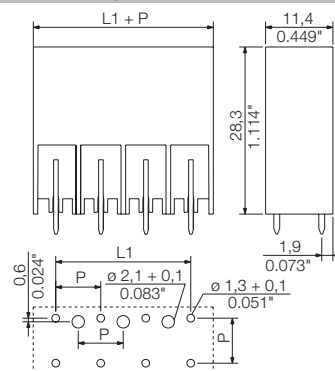
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Diameter of solder eyelet D = 1.4+0.1 mm starting with 8-pole

SV 7.62HP../180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

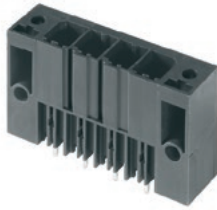
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
<b>Protection against twisting</b>		
	VDS180 SV7.62	1853940000

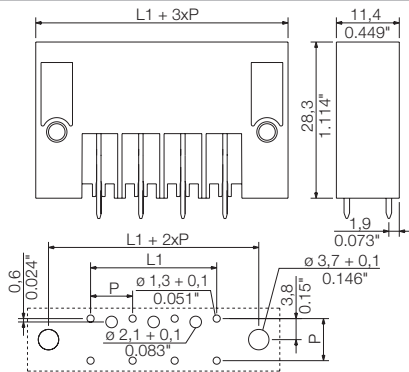
Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	120	1930600000
3	15.24	0.600	78	1930610000
4	22.86	0.900	60	1930620000
5	30.48	1.200	48	1930630000
6	38.10	1.500	36	1930640000
7	45.72	1.800	30	1930650000
8	53.34	2.100	30	1930660000
9	60.96	2.400	24	1930670000
10	68.58	2.700	24	1930680000
11	76.20	3.000	18	1930690000
12	83.82	3.300	18	1930700000

SV 7.62HP../180F



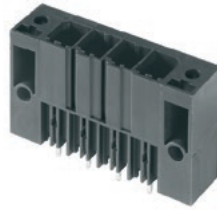
Dimensioned drawing



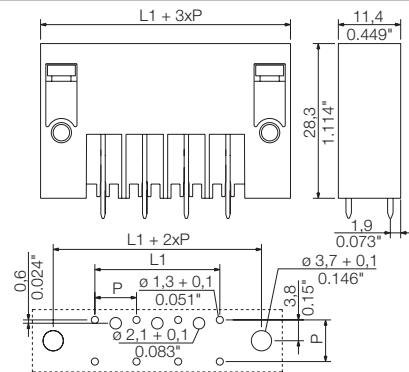
Ordering data

Solder pin length		3.5 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	60	1930710000	
3	15.24	0.600	48	1930720000	
4	22.86	0.900	36	1930730000	
5	30.48	1.200	30	1930740000	
6	38.10	1.500	30	1930750000	
7	45.72	1.800	24	1930760000	
8	53.34	2.100	24	1930770000	
9	60.96	2.400	18	1930780000	
10	68.58	2.700	18	1930790000	
11	76.20	3.000	18	1930800000	
12	83.82	3.300	12	1930810000	

SV 7.62HP../180SF



Dimensioned drawing

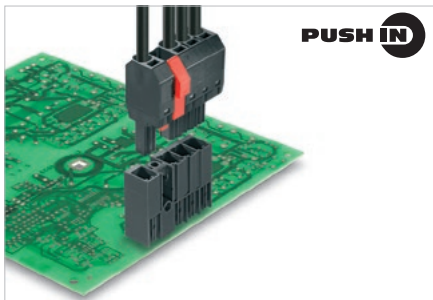


Ordering data

Solder pin length		3.5 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	60	1930820000	
3	15.24	0.600	48	1930830000	
4	22.86	0.900	36	1930840000	
5	30.48	1.200	30	1930850000	
6	38.10	1.500	30	1930860000	
7	45.72	1.800	24	1930870000	
8	53.34	2.100	24	1930880000	
9	60.96	2.400	18	1930890000	
10	68.58	2.700	18	1930900000	
11	76.20	3.000	18	1930910000	
12	83.82	3.300	12	1930920000	

**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP../180MF**



Male header with 180° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in acc. with UL61800-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, unique coding diversity, additional fastening and integrated positioning aid.

Variants: flange, screw flange and middle flange fastening.

**Product data**

IEC: 1000 V / 57 A  
 UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

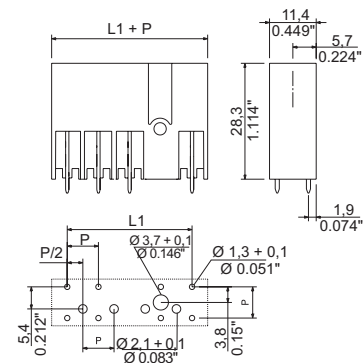
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SV 7.62HP../180MF2**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III
Pollution severity		3	2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630</b>
Rated impulse voltage	kV	6	6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5</b>
<b>AWG conductor</b>	<b>AWG</b>	-	-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C</b>
Rated voltage	V	300	300
Rated current	A	35	35
AWG conductor	AWG	-	-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	<b>1937590000</b>
<b>Protection against twisting</b>	
VDS180 SV7.62	<b>1853940000</b>

**Ordering data**

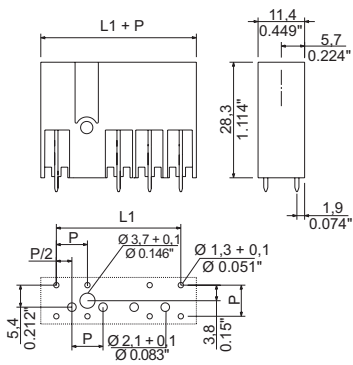
<b>Solder pin length</b>	<b>3.5 mm</b>			
<b>Colour</b>	<b>Black</b>			
<b>Pitch</b>	<b>7.62 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	78	<b>1048350000</b>
3	22.86	0.900	60	<b>1048410000</b>
4	30.48	1.200	48	<b>1464310000</b>
5	38.10	1.500	36	<b>1464320000</b>
6	45.72	1.800	30	<b>1543190000</b>

SV 7.62HP../180MF3

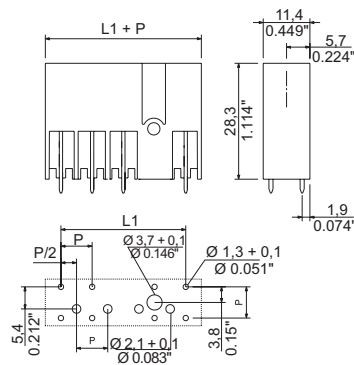
SV 7.62HP../180MF4



Dimensioned drawing



Dimensioned drawing



Ordering data

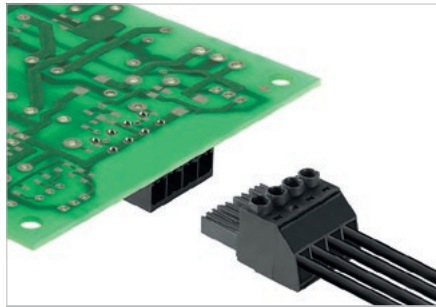
Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	60	1048420000
4	30.48	1.200	48	1048530000
5	38.10	1.500	36	1048590000
6	45.72	1.800	30	1543210000

Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	48	1464330000
5	38.10	1.500	36	1048600000
6	45.72	1.800	30	1048720000

**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP/./270**



Male header with 270° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in acc. with UL61800-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, unique coding diversity, additional fastening.

Variants: flange, screw flange and middle flange fastening.

**Product data**

IEC: 1000 V / 57 A  
 UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

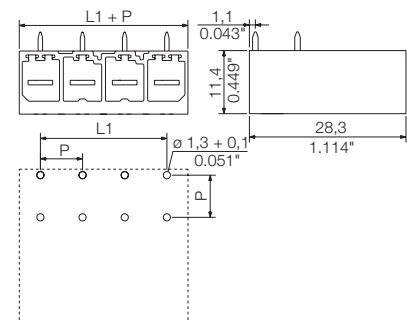
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Diameter of solder eyelet D = 1.4+0.1 mm starting with 8-pole

**SV 7.62HP/./270G**



**Dimensioned drawing**




**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtolerance category		III	III
Pollution severity		3	2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630</b>
Rated impulse voltage	kV	6	6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5</b>
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C</b>
Rated voltage	V	300	300
Rated current	A	35	35
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000

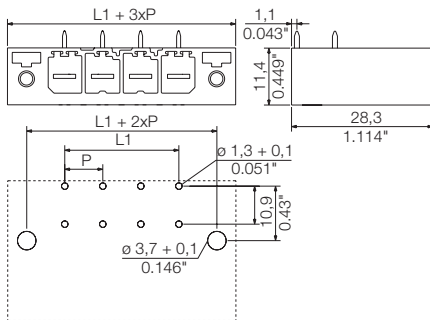
**Ordering data**

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	120	1931260000
3	15.24	0.600	78	1931270000
4	22.86	0.900	60	1931280000
5	30.48	1.200	48	1931290000
6	38.10	1.500	36	1931300000
7	45.72	1.800	30	1931310000
8	53.34	2.100	30	1931320000
9	60.96	2.400	24	1931330000
10	68.58	2.700	24	1931340000
11	76.20	3.000	18	1931350000
12	83.82	3.300	18	1931360000

SV 7.62HP../270F



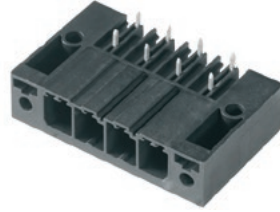
Dimensioned drawing



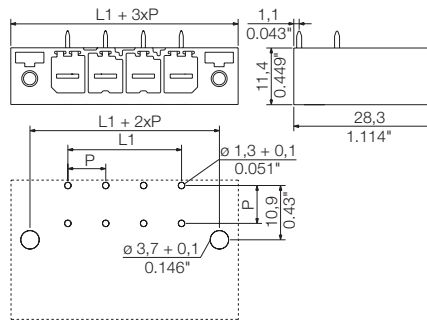
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	60 1931370000
3	15.24	0.600	48 1931380000
4	22.86	0.900	36 1931390000
5	30.48	1.200	30 1931400000
6	38.10	1.500	30 1931410000
7	45.72	1.800	24 1931420000
8	53.34	2.100	24 1931430000
9	60.96	2.400	18 1931440000
10	68.58	2.700	18 1931450000
11	76.20	3.000	18 1931460000
12	83.82	3.300	12 1931470000

SV 7.62HP../270SF



Dimensioned drawing

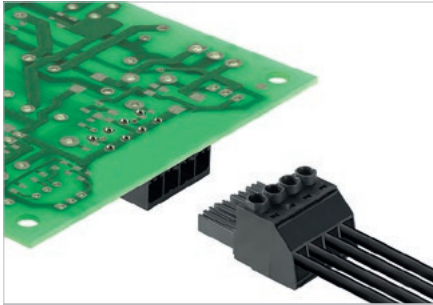


Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	60 1931480000
3	15.24	0.600	48 1931490000
4	22.86	0.900	36 1931500000
5	30.48	1.200	30 1931510000
6	38.10	1.500	30 1931520000
7	45.72	1.800	24 1931530000
8	53.34	2.100	24 1931540000
9	60.96	2.400	18 1931550000
10	68.58	2.700	18 1931570000
11	76.20	3.000	18 1931580000
12	83.82	3.300	12 1931590000

**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SV 7.62HP/./270MF**



Male header with 180° outlet direction for 400 V TNC(S) systems. UL approval for 600 V in acc. with UL61800-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, unique coding diversity, additional fastening.

Variants: flange, screw flange and middle flange fastening.

**Product data**

IEC: 1000 V / 57 A  
UL: 300 V / 40.5 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

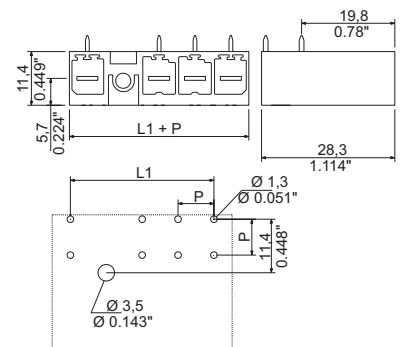
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SV 7.62HP/./270MF2**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

**Ordering data**

<b>Solder pin length</b>		3.5 mm		
<b>Colour</b>		Black		
<b>Pitch</b>		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	78	1048370000
3	22.86	0.900	60	1048450000
4	30.48	1.200	48	1464340000
5	38.10	1.500	36	1464350000
6	45.72	1.800	30	1543250000

**K**

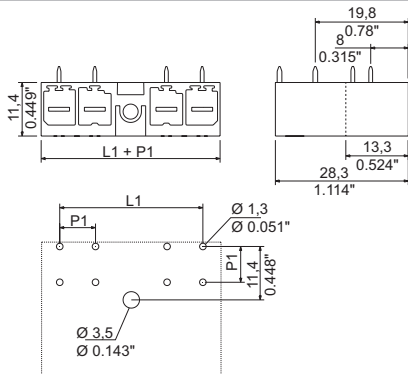
**7.62**

**270°**

SV 7.62HP/./270MF3



Dimensioned drawing



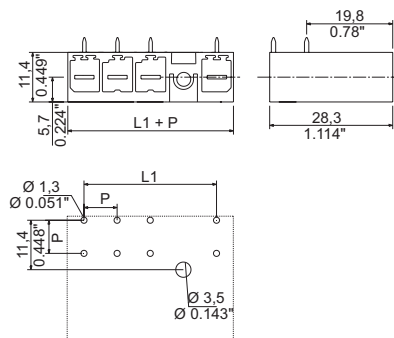
Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	60	1048460000
4	30.48	1.200	48	1048550000
5	38.10	1.500	36	1048640000
6	45.72	1.800	30	1543260000

SV 7.62HP/./270MF4



Dimensioned drawing

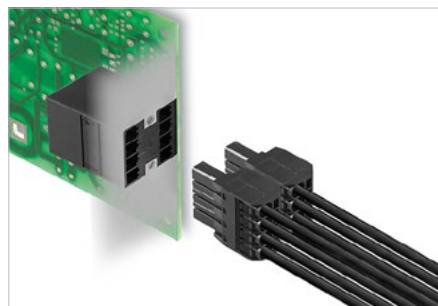


Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	48	1464360000
5	38.10	1.500	36	1048650000
6	45.72	1.800	30	1048740000

**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVD 7.62HP../270**



Double-row high-current, high-performance pin headers, with or without flange, for fast, tool-free locking. Optimised for "book-size modules" measuring 50 mm wide and above. With integrated mounting option for mounting to the housing wall. Exceptional reliability and operational safety thanks to 100% failsafe mating profile, unique coding and optional additional screw mounting in the flange.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>47</b>	<b>42</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>30</b>	<b>30 5</b>
<b>AWG conductor</b>	<b>AWG</b>	-	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	300	300 300
Rated current	A		5
AWG conductor	AWG	-	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 1000 V / 47 A  
 UL: 300 V / 30 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

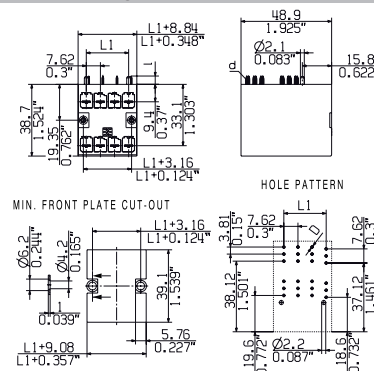
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SVD 7.62HP../270G**



**Dimensioned drawing**



**Ordering data**

<b>Solder pin length</b>	3.2 mm			
<b>Colour</b>	Black			
<b>Pitch</b>	7.62 mm			
<b>Pol.</b>	L1	(inch)	<b>Qty.</b>	<b>Order No.</b>
4	7.62	0.300	60	1543290000
6	15.24	0.600	42	1543310000
8	22.86	0.900	30	1543320000
10	30.48	1.200	24	1543330000
12	38.10	1.500	21	1543340000

**Accessories**

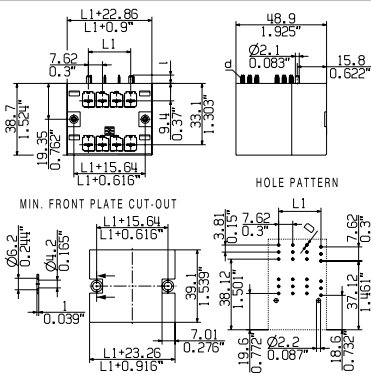
**Note:** Refer to the Accessories chapter for additional accessories.

<b>Coding</b>	<b>Order No.</b>
BV/SV 7.62HP KO	1937590000

SVD 7.62HP/././270F

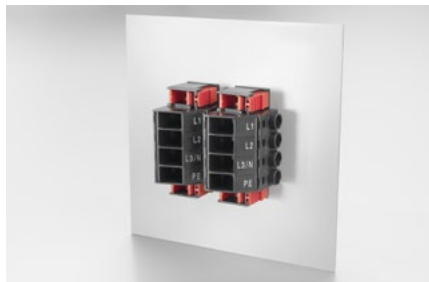
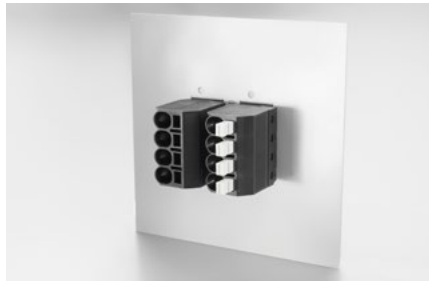
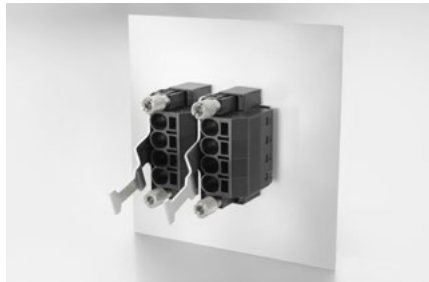


Dimensioned drawing



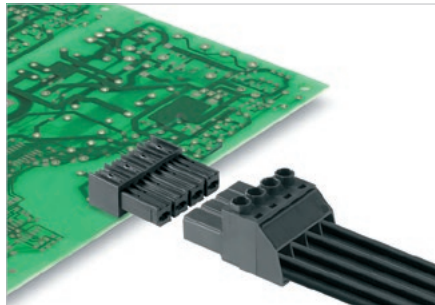
Ordering data

Solder pin length	3.2 mm			
Colour	Black			
<b>Pitch</b>	<b>7.62 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
4	7.62	0.300	33	1523940000
6	15.24	0.600	24	1523950000
8	22.86	0.900	21	1523970000
10	30.48	1.200	18	1523980000
12	38.10	1.500	15	1523990000



**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVZ 7.62HP/./180**



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F) and screw flange (SF).

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.2...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range	Nm	0.5...0.6	
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>42</b>	<b>42 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.2 - 10 mm<sup>2</sup>  
 UL: 600 V / 42 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

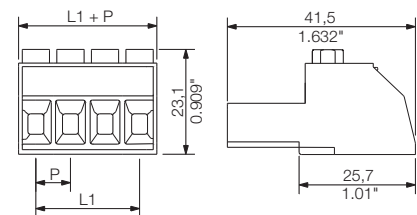
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SVZ 7.62HP/./180**



**Dimensioned drawing**



**K**

**7.62**

**180°**

**6 mm<sup>2</sup>**

**Accessories**

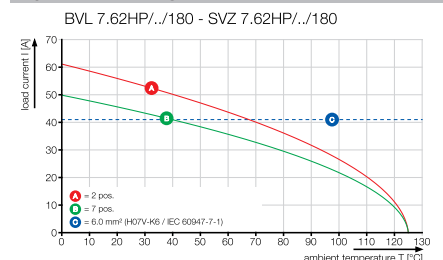
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	<b>1937590000</b>
<b>Strain relief</b>	
BV/SV 7.62HP/02 ZE GR	<b>1937550000</b>
BV/SV 7.62HP/04 ZE GR	<b>1937560000</b>
<b>Screwdriver</b>	
SDS 0.8X4.5X125	<b>9009020000</b>
<b>Crosshead screwdriver</b>	
SDK PH1	<b>9008480000</b>

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	<b>1931620000</b>
3	15.24	0.600	100	<b>1931630000</b>
4	22.86	0.900	100	<b>1931640000</b>
5	30.48	1.200	50	<b>1931660000</b>
6	38.10	1.500	50	<b>1931670000</b>
7	45.72	1.800	50	<b>1931680000</b>

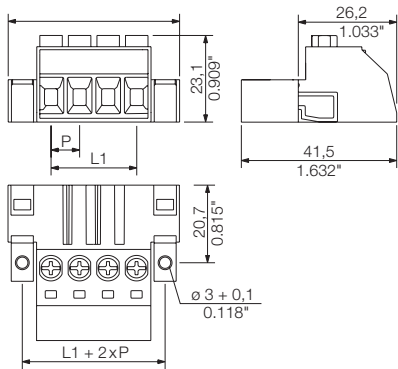
**Representative deratings curve**



SVZ 7.62HP../180F



Dimensioned drawing



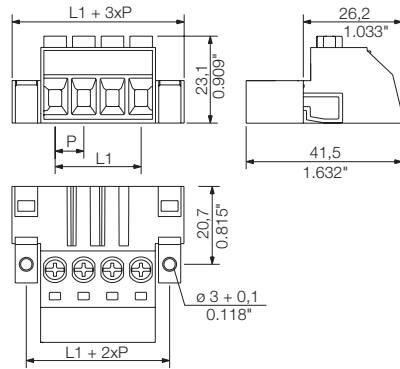
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1931740000	
3	15.24	0.600	100	1931760000	
4	22.86	0.900	100	1931820000	
5	30.48	1.200	50	1931840000	
6	38.10	1.500	50	1931850000	
7	45.72	1.800	50	1931860000	

SVZ 7.62HP../180SF



Dimensioned drawing



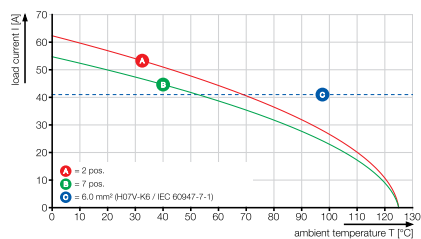
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1931960000	
3	15.24	0.600	100	1931970000	
4	22.86	0.900	100	1931980000	
5	30.48	1.200	50	1931990000	
6	38.10	1.500	50	1932000000	
7	45.72	1.800	50	1932010000	



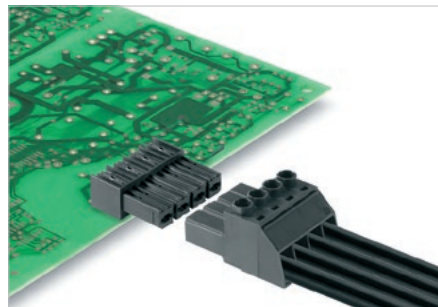
Additional deratings curves

BVZ 7.62HP../180 - SVZ 7.62HP../180



**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVZ 7.62HP../180FC**



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (FL) and a screw flange (SFC).

**Product data**

IEC: 1000 V / 57 A / 0.2 - 10 mm<sup>2</sup>  
 UL: 600 V / 42 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

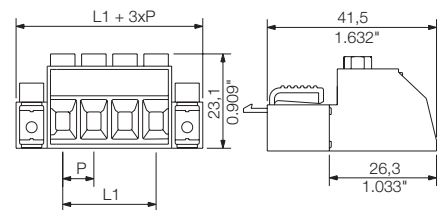
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SVZ 7.62HP../180FC**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.2...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range	Nm	0.5...0.6	
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>42</b>	<b>42 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Accessories**

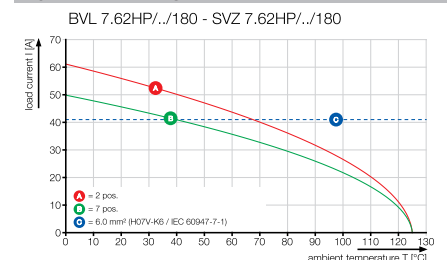
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	<b>1937590000</b>
<b>Strain relief</b>	
BV/SV 7.62HP/02 ZE GR	<b>1937550000</b>
BV/SV 7.62HP/04 ZE GR	<b>1937560000</b>
<b>Screwdriver</b>	
SDS 0.8X4.5X125	<b>9009020000</b>
<b>Crosshead screwdriver</b>	
SDK PH1	<b>9008480000</b>

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	<b>1950880000</b>
3	15.24	0.600	100	<b>1950890000</b>
4	22.86	0.900	100	<b>1950900000</b>
5	30.48	1.200	50	<b>1950910000</b>
6	38.10	1.500	50	<b>1950920000</b>
7	45.72	1.800	50	<b>1950930000</b>

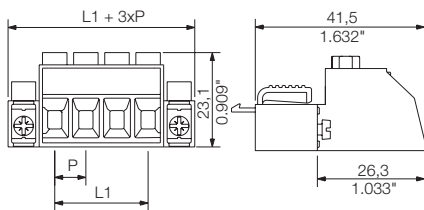
**Representative deratings curve**



SVZ 7.62HP../180SFC



Dimensioned drawing



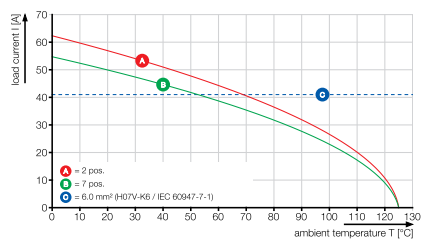
Ordering data

Solder pin length				
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1950990000
3	15.24	0.600	100	1951000000
4	22.86	0.900	100	1951010000
5	30.48	1.200	50	1951020000
6	38.10	1.500	50	1951030000
7	45.72	1.800	50	1951050000



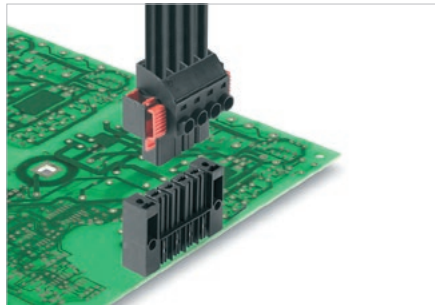
Additional deratings curves

BVZ 7.62HP../180 - SVZ 7.62HP../180



**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVZ 7.62HP../180FI**



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages for board-to-wire connections. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

Variants: flange and screw flange mountings.

- Available with a flange (F) and a screw flange (SFI).

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.2...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range	Nm	0.5...0.6	
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>42</b>	<b>42 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.2 - 10 mm<sup>2</sup>  
 UL: 600 V / 42 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

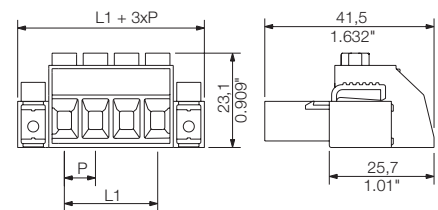
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SVZ 7.62HP../180FI**



**Dimensioned drawing**



**Accessories**

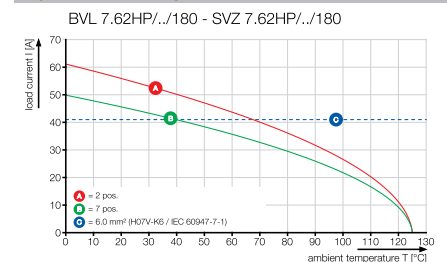
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	<b>1937590000</b>
Strain relief	
BV/SV 7.62HP/02 ZE GR	<b>1937550000</b>
BV/SV 7.62HP/04 ZE GR	<b>1937560000</b>
Screwdriver	
SDS 0.8x4.5x125	<b>9009020000</b>
Crosshead screwdriver	
SDK PH1	<b>9008480000</b>

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	<b>1932070000</b>
3	15.24	0.600	100	<b>1932080000</b>
4	22.86	0.900	100	<b>1932090000</b>
5	30.48	1.200	50	<b>1932100000</b>
6	38.10	1.500	50	<b>1932110000</b>
7	45.72	1.800	50	<b>1932120000</b>

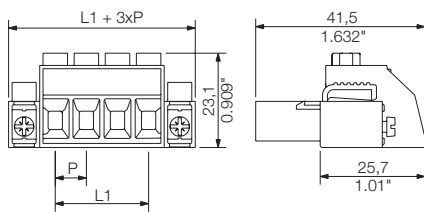
**Representative deratings curve**



SVZ 7.62HP../180SFI



Dimensioned drawing



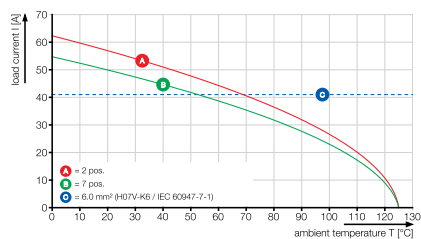
Ordering data

Solder pin length				
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1932180000
3	15.24	0.600	100	1932190000
4	22.86	0.900	100	1932200000
5	30.48	1.200	50	1932210000
6	38.10	1.500	50	1932220000
7	45.72	1.800	50	1932230000



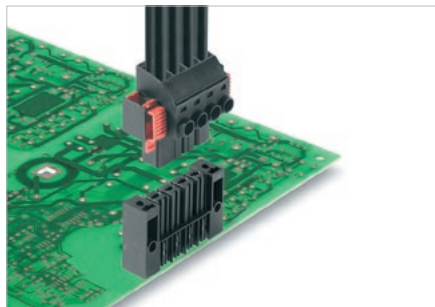
Additional deratings curves

BVZ 7.62HP../180 - SVZ 7.62HP../180



**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVZ 7.62HP../180SH**



Male plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.2...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range	Nm	0.5...0.6	
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>42</b>	<b>42 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.2 - 10 mm<sup>2</sup>  
 UL: 600 V / 42 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

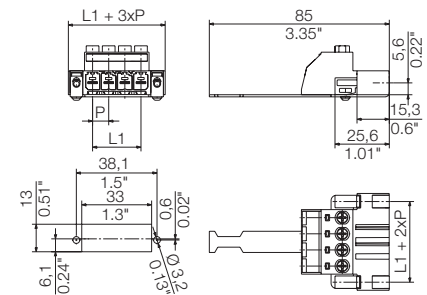
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SVZ 7.62HP../180SH180**



**Dimensioned drawing**



FRONT PLATE CUT-OUT

**Ordering data**

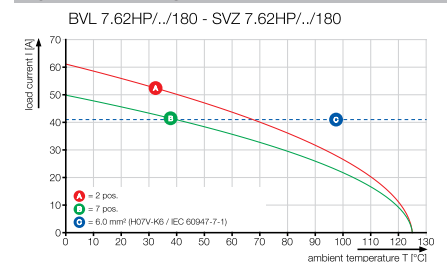
Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1932460000
4	22.86	0.900	25	1932470000
5	30.48	1.200	25	1932480000
6	38.10	1.500	25	1932490000

**Accessories**

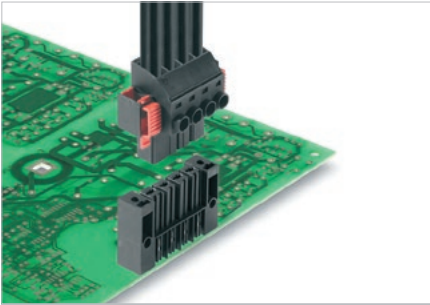
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8X4.5X125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

**Representative deratings curve**



### SVZ 7.62HP../180SH C



Male plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

### Product data

IEC: 1000 V / 57 A / 0.2 - 10 mm<sup>2</sup>  
UL: 600 V / 42 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

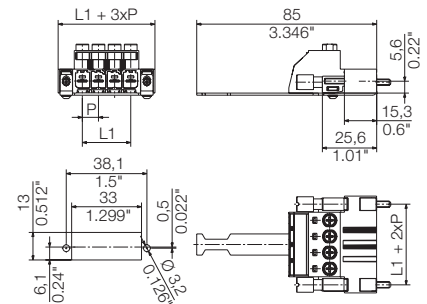
#### Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

### SVZ 7.62HP../180SH180C



#### Dimensioned drawing



FRONT PLATE CUT-OUT

### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.2...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range	Nm	0.5...0.6	
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>42</b>	<b>42 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

### Accessories

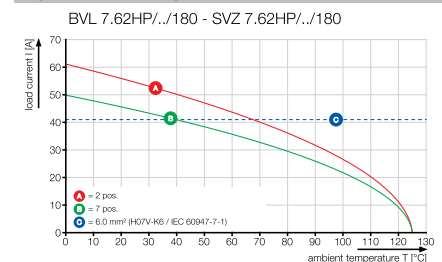
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
Screwdriver		
	SDS 0.8X4.5X125	9009020000
Crosshead screwdriver		
	SDK PH1	9008480000

### Ordering data

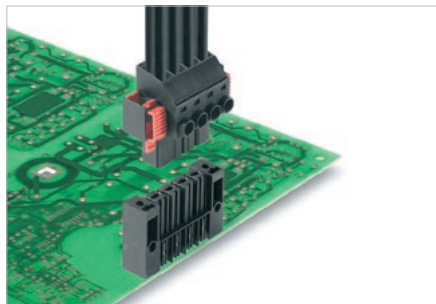
Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1951150000
4	22.86	0.900	25	1951160000
5	30.48	1.200	25	1951170000
6	38.10	1.500	25	1951180000

### Representative deratings curve



**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVZ 7.62HP../180SH I**



Male plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages for board-to-wire connections. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.2...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range	Nm	0.5...0.6	
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>41</b>
At ambient temperature	20°C	40°C	
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	II
Pollution severity		3	2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000</b>
Rated impulse voltage	kV	8	6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>42</b>	<b>5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C</b>
Rated voltage	V	600	600
Rated current	A	35	5
AWG conductor	AWG	24-10	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.2 - 10 mm<sup>2</sup>  
 UL: 600 V / 42 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

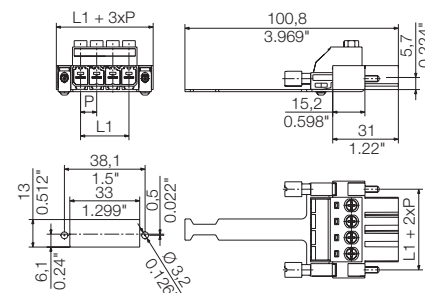
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SVZ 7.62HP../180SH180I**



**Dimensioned drawing**



FRONT PLATE CUT-OUT

**Accessories**

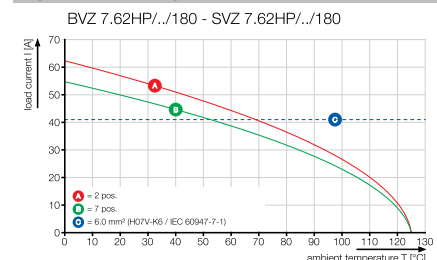
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
<b>Screwdriver</b>	
SDS 0.8X4.5X125	9009020000
<b>Crosshead screwdriver</b>	
SDK PH1	9008480000

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1932500000
4	22.86	0.900	25	1932510000
5	30.48	1.200	25	1932520000
6	38.10	1.500	25	1932530000

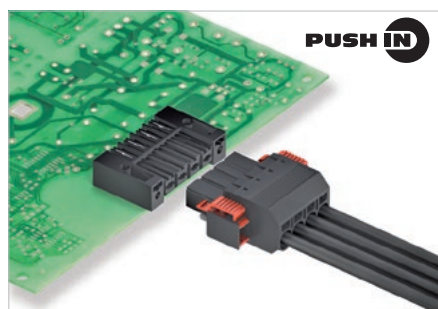
**Representative deratings curve**





**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVF 7.62HP../180**



Male plug in 180° outlet direction and "PUSH IN" spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F) and a screw flange (SF).

**Product data**

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

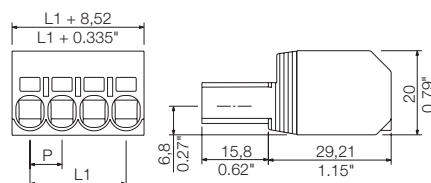
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SVF 7.62HP../180G**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.	mm <sup>2</sup>	0.5...10
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>
Stranded H07 V-R		...10
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10
Flexible with ferrule	mm <sup>2</sup>	1.5...6
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6
Stripping length	mm	12
Screwdriver blade	mm	0.6 x 3.5

According to norm

Tightening torque range

**Rated current, max.** A 57 57

At ambient temperature 20°C 40°C

For conductor cross-section mm<sup>2</sup> 6

Overvoltage category III III II

Pollution severity 3 2 2

**Rated voltage** V 800 800 1000

Rated impulse voltage kV 8 8 6

**UL / CUL (Use Group)** B C D

**Rated voltage** V 600 600 600

**Rated current** A 39 39 5

**AWG conductor** AWG 24-10

**CSA (Use Group)** B C D

Rated voltage V 600 600 600

Rated current A 36 36 5

AWG conductor AWG 24-10

**General data**

Type of insulation material PA GF

UL 94 flammability rating V-0

Contact base material Copper alloy

Material of contact surface tinned

Pin dimensions = d mm

Solder eyelet Ø = D mm

Solder eyelet Ø tolerance mm

**Accessories**

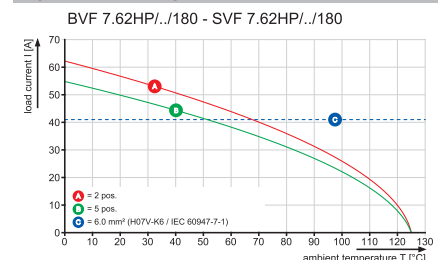
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
<b>Screwdriver</b>	
SDS 0.8X4.5X125	9009020000
<b>Crimping tool</b>	
PZ 6/5	9011460000

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	95	1060830000
3	15.24	0.600	65	1060840000
4	22.86	0.900	45	1060850000
5	30.48	1.200	40	1060870000
6	38.10	1.500	30	1060880000

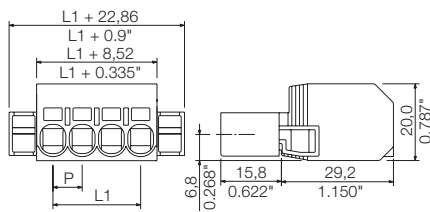
**Representative deratings curve**



SVF 7.62HP../180F



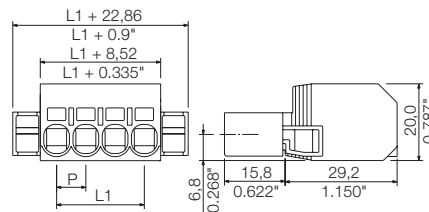
Dimensioned drawing



SVF 7.62HP../180SF



Dimensioned drawing



Ordering data

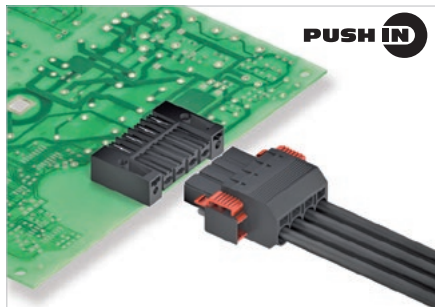
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1060900000	
3	15.24	0.600	40	1060910000	
4	22.86	0.900	30	1060920000	
5	30.48	1.200	25	1060930000	

Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1060950000	
3	15.24	0.600	40	1060970000	
4	22.86	0.900	30	1060980000	
5	30.48	1.200	25	1061000000	

**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVF 7.62HP../180 I**



Male plug in 180° outlet direction and "PUSH IN" spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages for board-to-wire connections. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (FI) and a screw flange (SFI).

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	1.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>57</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>800 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	36	36 5
AWG conductor	AWG	24-10	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

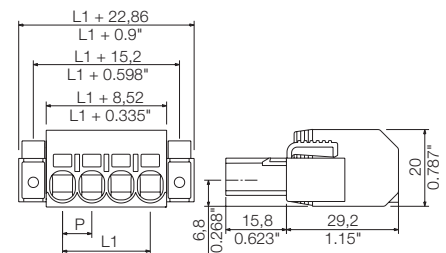
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SVF 7.62HP../180FI**



**Dimensioned drawing**



**Accessories**

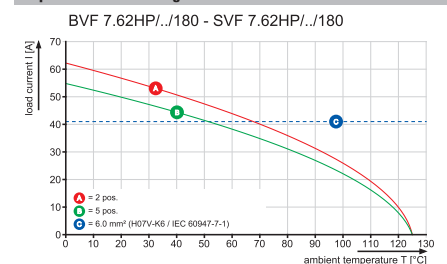
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
<b>Screwdriver</b>		
	SDS 0.8X4.5X125	9009020000
<b>Crimping tool</b>		
	PZ 6/5	9011460000

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	50	1124750000
3	15.24	0.600	40	1124760000
4	22.86	0.900	30	1124770000
5	30.48	1.200	25	1124780000

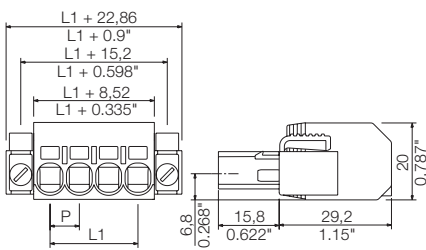
**Representative deratings curve**



SVF 7.62HP../180SFI



Dimensioned drawing

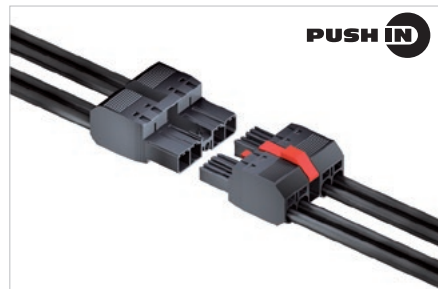


Ordering data

Solder pin length					
Colour					Black
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1124810000	
3	15.24	0.600	40	1124820000	
4	22.86	0.900	30	1124830000	
5	30.48	1.200	25	1124840000	

**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVF 7.62HP../180MF**



Male plug in 180° outlet direction with "PUSH IN" spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange is available in positions 2, 3 and 4.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	1.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>57</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>800 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	36	36 5
AWG conductor	AWG	24-10	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

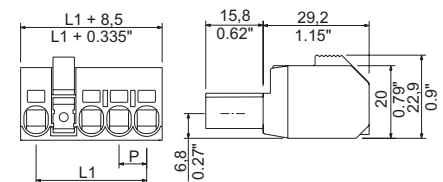
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SVF 7.62HP../180MF2**



**Dimensioned drawing**



**Accessories**

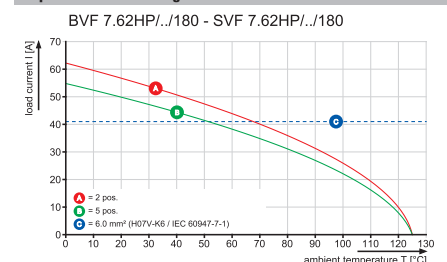
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000
<b>Screwdriver</b>	
SDS 0.8X4.5X125	9009020000
<b>Crimping tool</b>	
PZ 6/5	9011460000

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	65	1061020000
3	22.86	0.900	50	1061030000
4	30.48	1.200	40	1430010000
5	38.10	1.500	30	1430020000

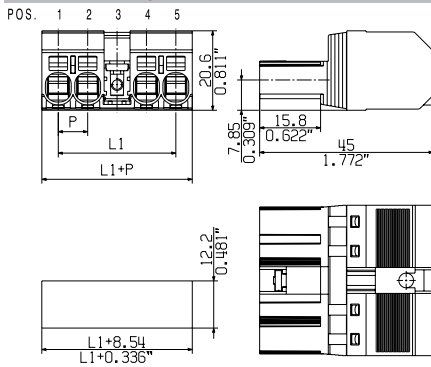
**Representative deratings curve**



SVF 7.62HP../180MF3



Dimensioned drawing



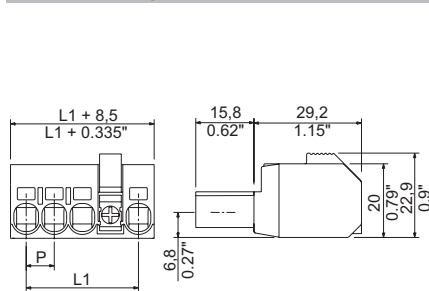
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1061040000	
4	30.48	1.200	40	1061050000	
5	38.10	1.500	30	1061070000	

SVF 7.62HP../180MF4



Dimensioned drawing

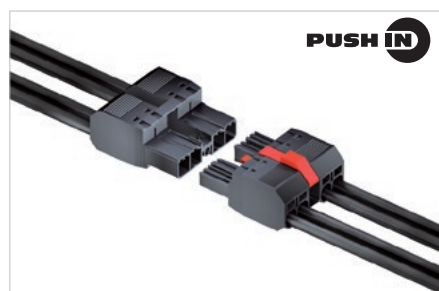


Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	10	1430030000	
5	38.10	1.500	30	1061080000	
6	45.72	1.800	25	1061100000	

**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVF 7.62HP../180MSF**



Male plug in 180° outlet direction with "PUSH IN" spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange is available in positions 2, 3 and 4.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.	mm <sup>2</sup>	0.5...10
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>
Stranded H07 V-R		...10
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10
Flexible with ferrule	mm <sup>2</sup>	1.5...6
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6
Stripping length	mm	12
Screwdriver blade	mm	0.6 x 3.5

According to norm

Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>57</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>800 1000</b>
Rated impulse voltage	kV	8	8 6

**UL / CUL (Use Group)**

<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39</b>	<b>5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C</b>	<b>D</b>
Rated voltage	V	600	600	600
Rated current	A	36	36	5
AWG conductor	AWG	24-10		

**General data**

Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Copper alloy
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

**Product data**

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

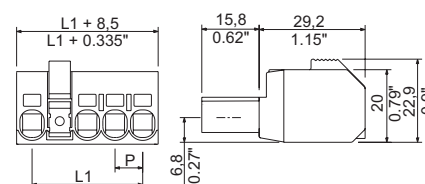
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SVF 7.62HP../180MSF2**



**Dimensioned drawing**



**Accessories**

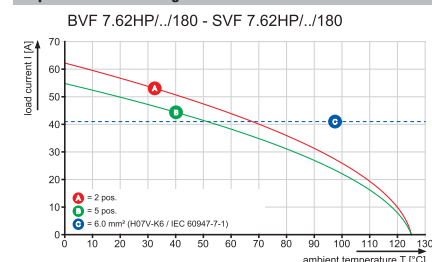
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
<b>Screwdriver</b>		
	SDS 0.6X3.5X100	9008330000
	SDIS 0.6X3.5X100	9008390000
<b>Crimping tool</b>		
	PZ 6/5	9011460000

**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>Black</b>			
<b>Pitch</b>	<b>7.62 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
2	15.24	0.600	65	1061110000
3	22.86	0.900	50	1061120000
4	30.48	1.200	40	1430060000
5	38.10	1.500	30	1430070000

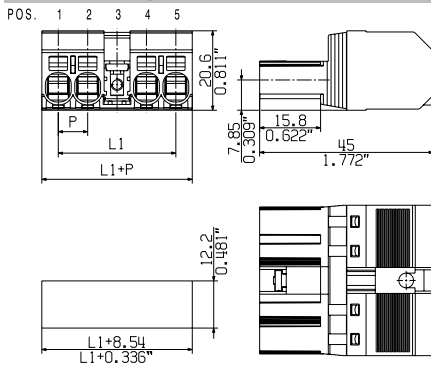
**Representative deratings curve**



SVF 7.62HP../180MSF3



Dimensioned drawing



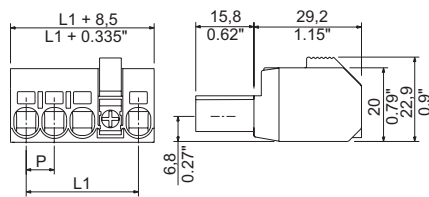
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1061130000	
4	30.48	1.200	40	1061140000	
5	38.10	1.500	30	1061150000	

SVF 7.62HP../180MSF4



Dimensioned drawing

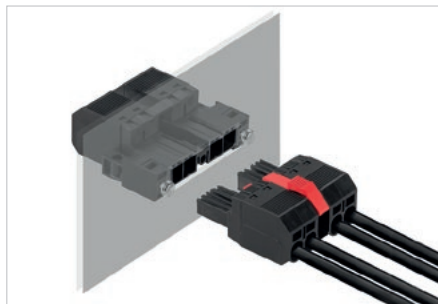


Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	40	1430080000	
5	38.10	1.500	30	1061170000	
6	45.72	1.800	25	1061180000	

**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVF 7.62HP../180**



180° inverted male header featuring PUSH IN connection technology for field wiring in 6 mm<sup>2</sup> with a 7.62 pitch as a "three-flange variant" for enclosure feed-throughs. Suitable for enclosures with a max. wall thickness of 2 mm. Also a perfect finger-safe solution for reverse voltages. Meets the requirements of UL1059 600 V Class C and IEC 61800-5-1.

**Technical data**

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	1.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>57</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>800 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	36	36 5
AWG conductor	AWG	24-10	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

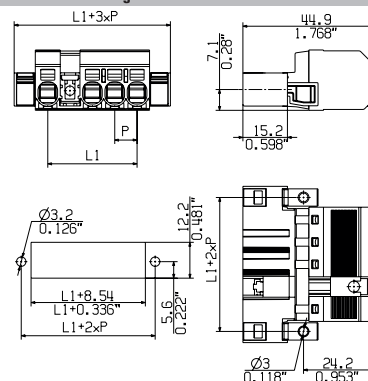
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SVF 7.62HP../180SFMF2**



**Dimensioned drawing**



**Ordering data**

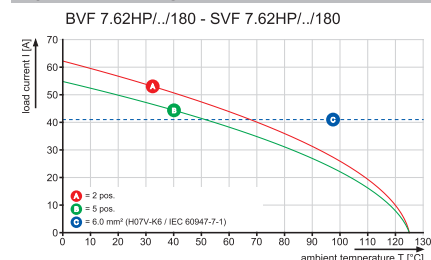
<b>Solder pin length</b>				
<b>Colour</b>	<b>Black</b>			
<b>Pitch</b>	<b>7.62 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
2	15.24	0.600	40	1427220000
3	22.86	0.900	30	1427230000
4	30.48	1.200	25	1427250000

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

<b>Coding</b>	<b>Order No.</b>
BV/SV 7.62HP K0	1937590000
<b>Screwdriver</b>	
SDS 0.8X4.5X125	9009020000
<b>Crimping tool</b>	
PZ 6/5	9011460000
<b>Coupling set</b>	
SVF/BVF 7.62HP COUPLE SET	1440850000

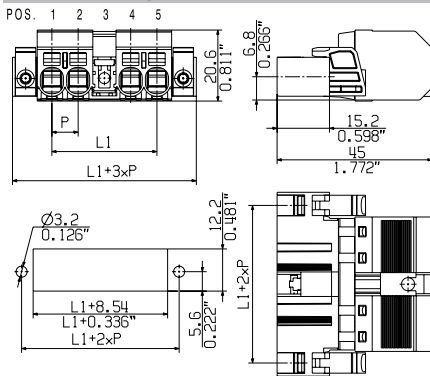
**Representative deratings curve**



SVF 7.62HP../180SFMF3



Dimensioned drawing



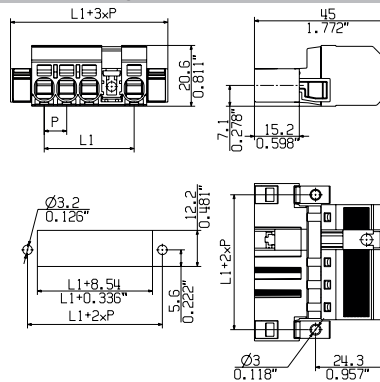
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	30	1427240000	
4	30.48	1.200	25	1427260000	

SVF 7.62HP../180SFMF4



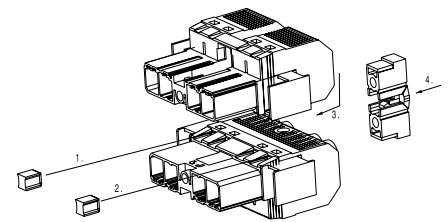
Dimensioned drawing



Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	25	1427270000	

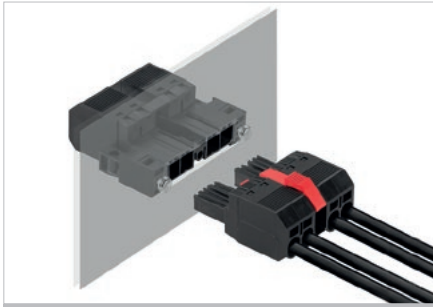
SVF/BCF 7.62HP COUPLE SET



With the aid of the SVF/BVF 7.62HP COUPLE SET the two plug-in elements can be connected back-to-back to form a 2-row connector with a maximum of 2 x 4 poles.

**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVF 7.62HP../180**



180° inverted male header featuring PUSH IN connection technology for field wiring in 6 mm<sup>2</sup> with a 7.62 pitch as a "three-flange variant" for enclosure feed-throughs. Suitable for enclosures with a max. wall thickness of 16 mm. Also a perfect finger-safe solution for reverse voltages. Meets the requirements of UL1059 600 V Class C and IEC 61800-5-1.

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.	mm <sup>2</sup>	0.5...10
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>
Stranded H07 V-R		...10
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10
Flexible with ferrule	mm <sup>2</sup>	1.5...6
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6
Stripping length	mm	12
Screwdriver blade	mm	0.6 x 3.5

According to norm

Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>57</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>800 1000</b>
Rated impulse voltage	kV	8	8 6

<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C</b>	<b>D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39</b>	<b>5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C</b>	<b>D</b>
Rated voltage	V	600	600	600
Rated current	A	36	36	5
AWG conductor	AWG	24-10		

<b>General data</b>	
Type of insulation material	PA GF
UL 94 flammability rating	V-0
Contact base material	Copper alloy
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

**Product data**

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

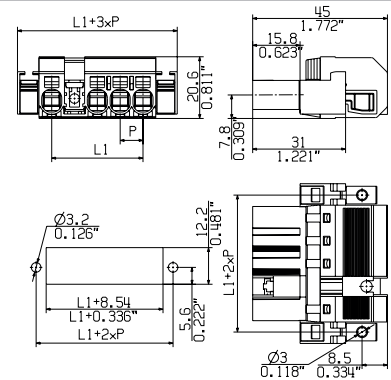
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SVF 7.62HP../180SFBMF2**



**Dimensioned drawing**



**Ordering data**

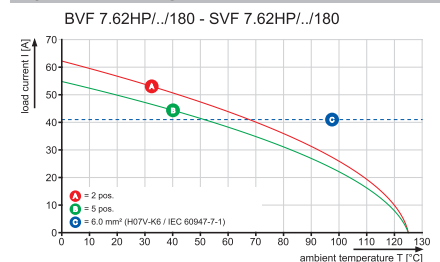
<b>Solder pin length</b>				
<b>Colour</b>	<b>Black</b>			
<b>Pitch</b>	<b>7.62 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
2	15.24	0.600	40	1429920000
3	22.86	0.900	30	1429930000
4	30.48	1.200	25	1429950000

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

<b>Coding</b>	<b>Order No.</b>
BV/SV 7.62HP K0	1937590000
<b>Screwdriver</b>	
SDS 0.8X4.5X125	9009020000
<b>Crimping tool</b>	
PZ 6/5	9011460000
<b>Coupling set</b>	
SVF/BVF 7.62HP COUPLE SET	1440850000

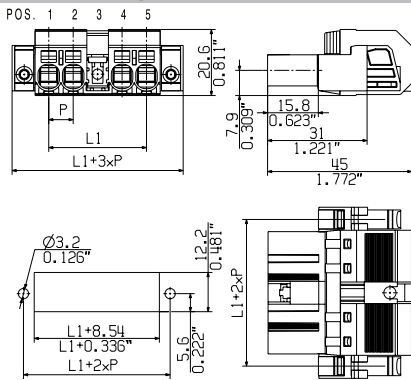
**Representative deratings curve**



SVF 7.62HP../180SFBMF3



Dimensioned drawing



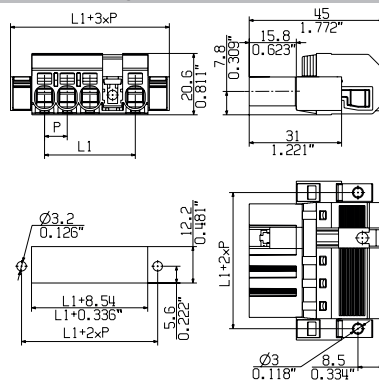
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	30	1429940000	
4	30.48	1.200	25	1429960000	

SVF 7.62HP../180SFBMF4



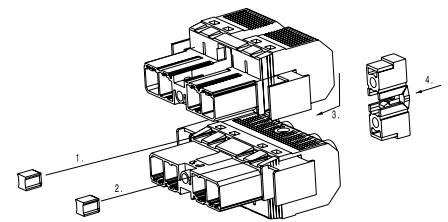
Dimensioned drawing



Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	25	1429970000	

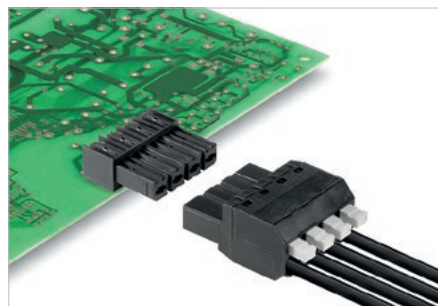
SVF/BCF 7.62HP COUPLE SET



With the aid of the SVF/BVF 7.62HP COUPLE SET the two plug-in elements can be connected back-to-back to form a 2-row connector with a maximum of 2 x 4 poles.

**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVFL 7.62HP../180**



Male plug with 180° outlet direction and adjustable actuator (PUSHER) featuring PUSH IN spring connection technology for TNC(S) networks. Also perfect as a touch-safe solution for reverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement ensures finger-safety of >3 mm in accordance with IEC 61800-5-1.

Maximum connection and operating reliability due to: derating up to 125°C, a 100 % pin arrangement that prevents wrong connections or wrong wiring, and unique coding diversity.

Variants: middle flange and middle screw flange mountings.

**Product data**

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 36 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

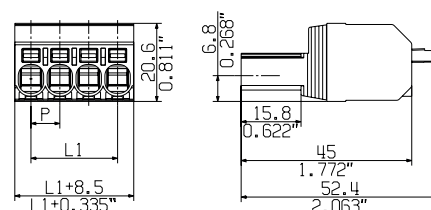
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SVFL 7.62HP../180G**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	1.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature	20°C		40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>800 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>36</b>	<b>36 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

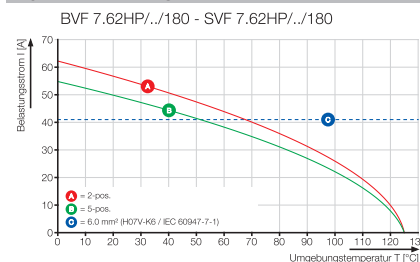
Coding		Order No.
	BV/SV 7.62HP K0	1937590000
<b>Screwdriver</b>		
	SDS 0.8X4.5X125	9009020000
<b>Crimping tool</b>		
	PZ 6/5	9011460000

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	22.86	0.900	36	1547550000

Additional pole combinations on request

**Representative deratings curve**

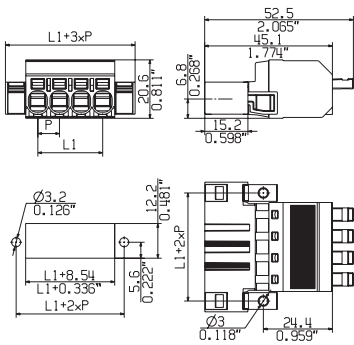


Additional pole combinations on request

SVFL 7.62HP/./180F



Dimensioned drawing



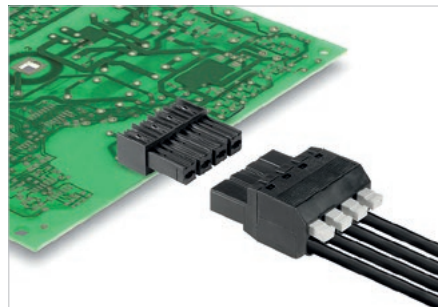
Ordering data

Solder pin length				
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	22.86	0.900	24	1547570000

Additional pole combinations on request

**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**SVFL 7.62HP../180MF**



Male plug with 180° outlet direction and adjustable actuator (PUSHER) featuring PUSH IN spring connection technology for TNC(S) networks. Also perfect as a touch-safe solution for reverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement ensures finger-safety of >3 mm in accordance with IEC 61800-5-1.

Maximum connection and operating reliability due to: derating up to 125°C, a 100 % pin arrangement that prevents wrong connections or wrong wiring, and unique coding diversity.

Variants: middle flange and middle screw flange mountings.

**Product data**

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 36 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

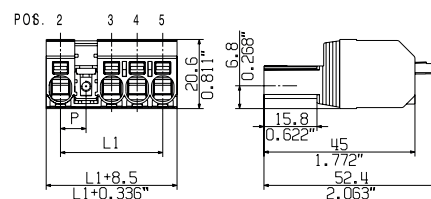
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**SVFL 7.62HP../180MF2**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.	mm <sup>2</sup>	0.5...6
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>
Stranded H07 V-R		
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6
Flexible with ferrule	mm <sup>2</sup>	1.5...6
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6
Stripping length	mm	12
Screwdriver blade	mm	0.6 x 3.5

According to norm

Tightening torque range

<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C

For conductor cross-section

Overtoltage category		III	III	II
Pollution severity		3	2	2

**Rated voltage**

<b>Rated impulse voltage</b>	<b>kV</b>	<b>8</b>	<b>8</b>	<b>6</b>
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**UL / CUL (Use Group)**

<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>	<b>600</b>
----------------------	----------	------------	------------	------------

**Rated current**

<b>Rated current</b>	<b>A</b>	<b>36</b>	<b>36</b>	<b>5</b>
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**AWG conductor**

<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>
----------------------	------------	--------------

**CSA (Use Group)**

<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>	<b>600</b>
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**Rated current**

<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35</b>	<b>5</b>
----------------------	----------	-----------	-----------	----------

**AWG conductor**

<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>
----------------------	------------	--------------

**General data**

Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Copper alloy
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

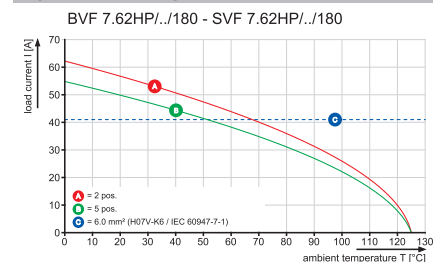
**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

**Ordering data**

<b>Solder pin length</b>				
<b>Colour</b>	<b>Black</b>			
<b>Pitch 7.62 mm</b>				
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
2	15.24	0.600	65	2630260000
3	22.86	0.900	50	2630420000
4	30.48	1.200	40	2630430000
5	38.10	1.500	30	2630440000

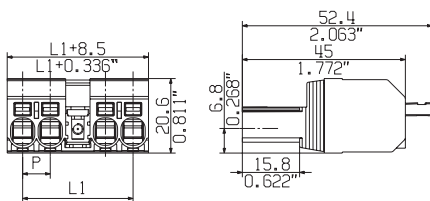
**Representative deratings curve**



SVFL 7.62HP../180MF3



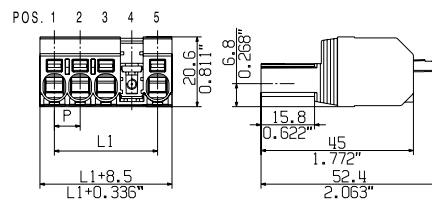
Dimensioned drawing



SVFL 7.62HP../180MF4



Dimensioned drawing



Ordering data

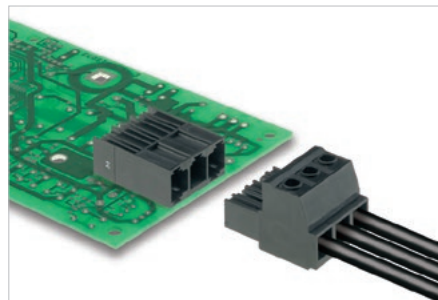
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	2630450000	
4	30.48	1.200	32	1547580000	
5	38.10	1.500	30	2630460000	

Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	40	2630470000	
5	38.10	1.500	30	2630480000	

**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**BVZ 7.62HP/./180**



Female plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F), screw flange (SF) and clip on screw flange (SFC)

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.2...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range	Nm	0.5...0.6	
<b>Rated current, max.</b>		<b>57</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG		24-8
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.2 - 10 mm<sup>2</sup>  
 UL: 600 V / 40.5 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

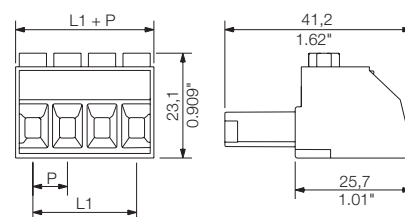
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**BVZ 7.62HP/./180**



**Dimensioned drawing**



**K**

**7.62**

**180°**

**6 mm<sup>2</sup>**

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
<b>Strain relief</b>	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
<b>Screwdriver</b>	
SDS 0.8X4.5X125	9009020000
<b>Crosshead screwdriver</b>	
SDK PH1	9008480000

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1929930000
3	15.24	0.600	100	1929940000
4	22.86	0.900	100	1929950000
5	30.48	1.200	50	1929960000
6	38.10	1.500	50	1929970000
7	45.72	1.800	50	1929980000
8	53.34	2.100	50	1929990000
9	60.96	2.400	50	1930000000
10	68.58	2.700	50	1930020000
11	76.20	3.000	50	1930030000
12	83.82	3.300	50	1930040000

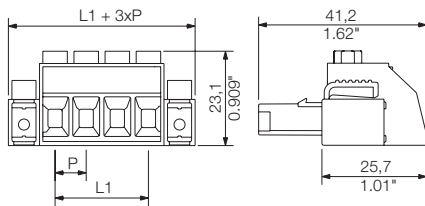
**Representative deratings curve**



BVZ 7.62HP../180F



Dimensioned drawing



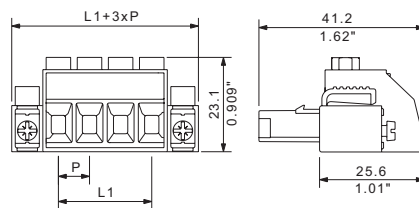
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1930050000	
3	15.24	0.600	100	1930060000	
4	22.86	0.900	100	1930070000	
5	30.48	1.200	50	1930080000	
6	38.10	1.500	50	1930090000	
7	45.72	1.800	50	1930100000	
8	53.34	2.100	50	1930110000	
9	60.96	2.400	50	1930120000	
10	68.58	2.700	50	1930130000	
11	76.20	3.000	50	1930140000	
12	83.82	3.300	50	1930150000	

BVZ 7.62HP../180SF



Dimensioned drawing



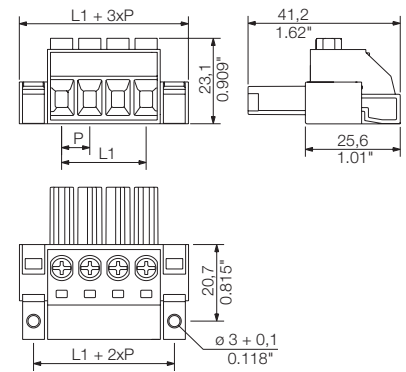
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1930160000	
3	15.24	0.600	100	1930170000	
4	22.86	0.900	100	1930180000	
5	30.48	1.200	50	1930190000	
6	38.10	1.500	50	1930200000	
7	45.72	1.800	50	1930210000	
8	53.34	2.100	50	1930220000	
9	60.96	2.400	50	1930230000	
10	68.58	2.700	50	1930240000	
11	76.20	3.000	50	1930250000	
12	83.82	3.300	50	1930260000	

BVZ 7.62HP../180SFC



Dimensioned drawing

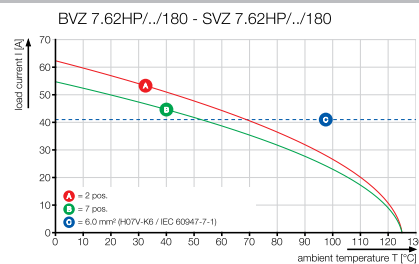
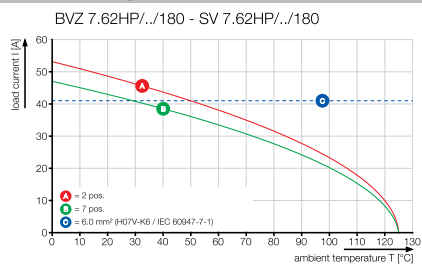


Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1929740000	
3	15.24	0.600	100	1929750000	
4	22.86	0.900	100	1929760000	
5	30.48	1.200	50	1929770000	
6	38.10	1.500	50	1929780000	
7	45.72	1.800	50	1929790000	

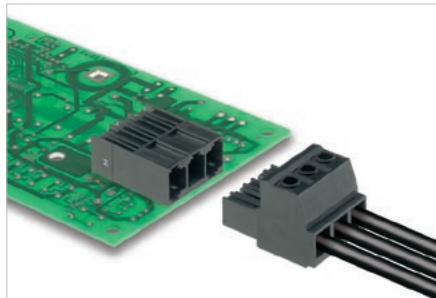
Also available with a clip-on flange (-180FC).

Additional deratings curves



Plug-in connector, pitch 7.62 mm  
BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>

BVZ 7.62HP../180SH



Female plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	0.2...10
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...6</b>
Stranded H07 V-R		
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10
Flexible with ferrule	mm <sup>2</sup>	0.25...6
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6
Stripping length	mm	12
Screwdriver blade	mm	0.6 x 3.5

According to norm

Tightening torque range	Nm	0.5...0.6
<b>Rated current, max.</b>		<b>57 41</b>
At ambient temperature	20°C 40°C	
For conductor cross-section	mm <sup>2</sup>	6
Overvoltage category		III III II
Pollution severity		3 2 2

<b>Rated voltage</b>	<b>V</b>	<b>800 1000 1000</b>
Rated impulse voltage	kV	8 8 6
<b>UL / CUL (Use Group)</b>		<b>B C D</b>

<b>Rated voltage</b>	<b>V</b>	<b>600 600 600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5 40.5 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>
<b>CSA (Use Group)</b>		<b>B C D</b>
Rated voltage	V	600 600 600
Rated current	A	40.5 40.5 5
AWG conductor	AWG	24-8

General data

Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Copper alloy
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

Product data

IEC: 1000 V / 57 A / 0.2 - 10 mm<sup>2</sup>  
UL: 600 V / 40.5 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

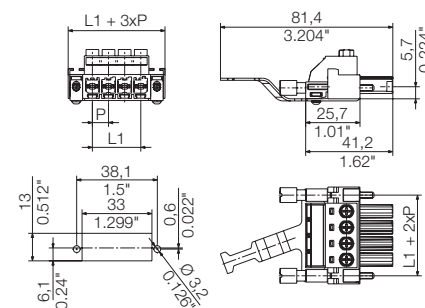
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVZ 7.62HP../180SH160



Dimensioned drawing



FRONT PLATE CUT-OUT

Accessories

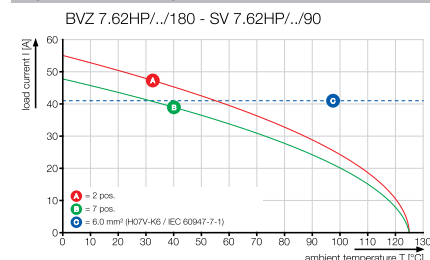
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
<b>Strain relief</b>	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
<b>Screwdriver</b>	
SDS 0.8x4.5x125	9009020000
<b>Crosshead screwdriver</b>	
SDK PH1	9008480000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1929850000
4	22.86	0.900	25	1929860000
5	30.48	1.200	25	1929870000
6	38.10	1.500	25	1929880000

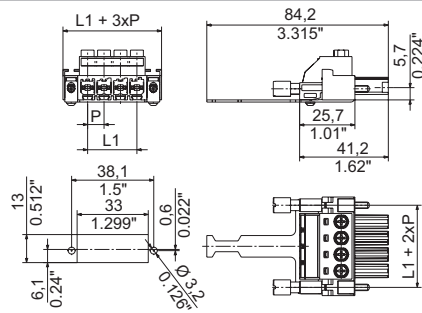
Representative deratings curve



**BVZ 7.62HP../180SH180**



**Dimensioned drawing**



FRONT PLATE CUT-OUT

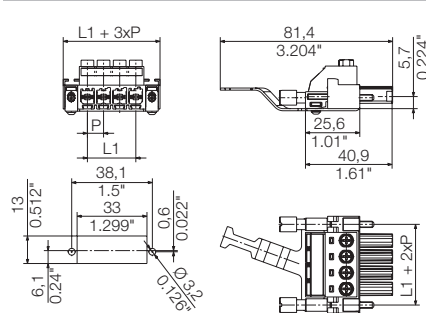
**Ordering data**

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	15.24	0.600	50	1933340000	
4	22.86	0.900	25	1933350000	
5	30.48	1.200	25	1933360000	
6	38.10	1.500	25	1933370000	

**BVZ 7.62HP../180SH200**



**Dimensioned drawing**



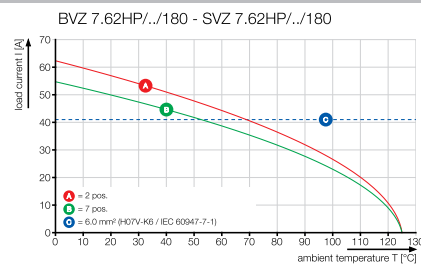
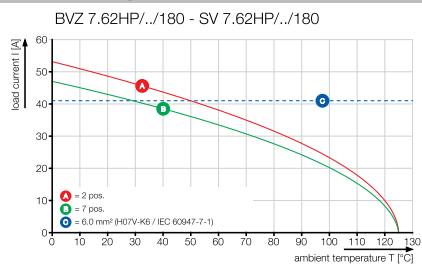
FRONT PLATE CUT-OUT

**Ordering data**

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	15.24	0.600	50	1933430000	
4	22.86	0.900	25	1933440000	
5	30.48	1.200	25	1933450000	
6	38.10	1.500	25	1933460000	

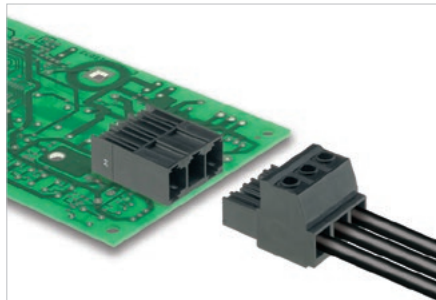


**Additional deratings curves**



Plug-in connector, pitch 7.62 mm  
BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>

**BVZ 7.62HP../180SH C**



Female plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.2...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range	Nm	0.5...0.6	
<b>Rated current, max.</b>		<b>57</b>	<b>41</b>
At ambient temperature	20°C		40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000</b> <b>1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C</b> <b>D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b> <b>600</b>
<b>Rated current</b>	<b>A</b>	<b>40.5</b>	<b>40.5</b> <b>5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C</b> <b>D</b>
Rated voltage	V	600	600 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG	24-8	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.2 - 10 mm<sup>2</sup>  
UL: 600 V / 40.5 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

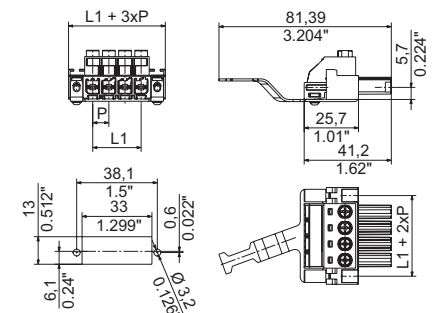
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**BVZ 7.62HP../180SH160C**



**Dimensioned drawing**



FRONT PLATE CUT-OUT

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1929890000
4	22.86	0.900	25	1929900000
5	30.48	1.200	25	1929910000
6	38.10	1.500	25	1929920000

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
<b>Strain relief</b>	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
<b>Screwdriver</b>	
SDS 0.8X4.5X125	9009020000
<b>Crosshead screwdriver</b>	
SDK PH1	9008480000

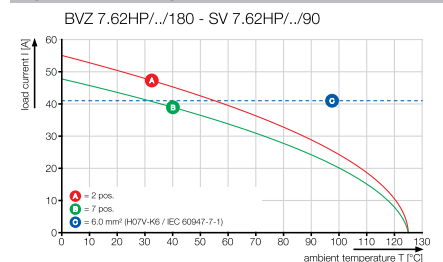
K

7.62

180°

6 mm<sup>2</sup>

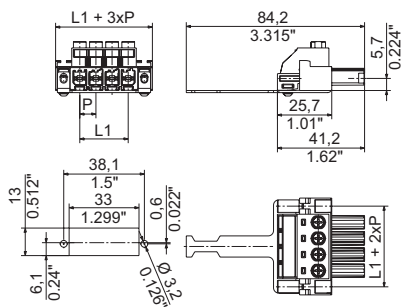
**Representative deratings curve**



**BVZ 7.62HP../180SH180C**



Dimensioned drawing



FRONT PLATE CUT-OUT

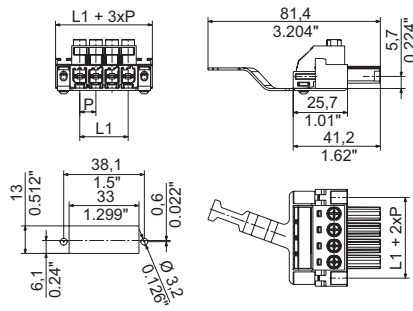
**Ordering data**

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	15.24	0.600	50	1933380000	
4	22.86	0.900	25	1933390000	
5	30.48	1.200	25	1933400000	
6	38.10	1.500	25	1933410000	

**BVZ 7.62HP../180SH200C**



Dimensioned drawing



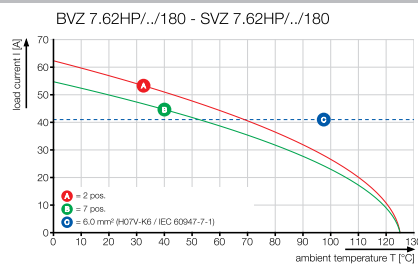
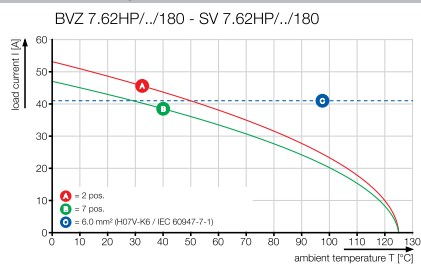
FRONT PLATE CUT-OUT

**Ordering data**

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	15.24	0.600	50	1933470000	
4	22.86	0.900	25	1933480000	
5	30.48	1.200	25	1933490000	
6	38.10	1.500	25	1933500000	

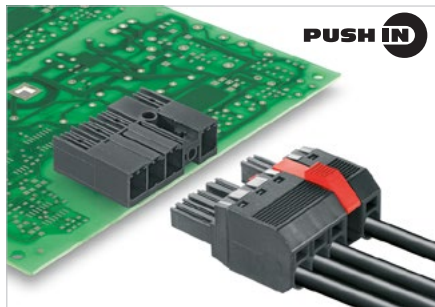


**Additional deratings curves**



**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**BVF 7.62HP../180**



Female plug in 180° outlet direction with "PUSH IN" spring connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F), screw flange (SF) and middle flange (MF).

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...10</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	1.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>57</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

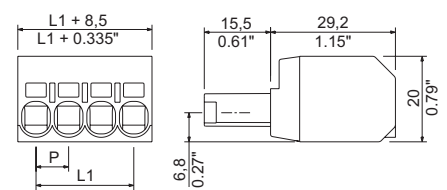
**Note:**

- Additional colours on request
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Versions with pusher, see BVFL

**BVF 7.62HP../180**



**Dimensioned drawing**



**Accessories**

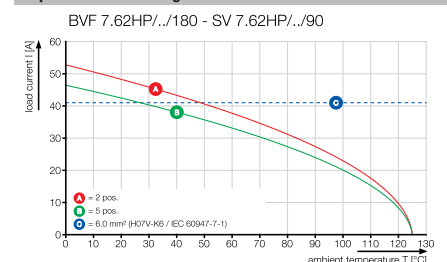
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8X4.5X125	9009020000
Crimping tool	
PZ 6/5	9011460000

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	95	1060390000
3	15.24	0.600	65	1060400000
4	22.86	0.900	45	1060410000
5	30.48	1.200	40	1060420000

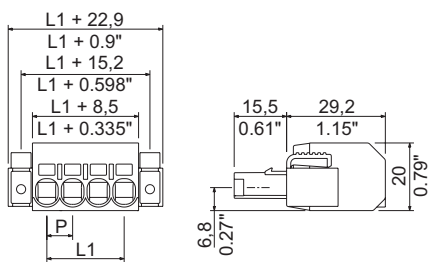
**Representative deratings curve**



**BVF 7.62HP../180F**



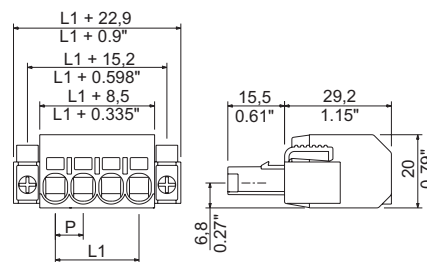
Dimensioned drawing



**BVF 7.62HP../180SF**



Dimensioned drawing



**Ordering data**

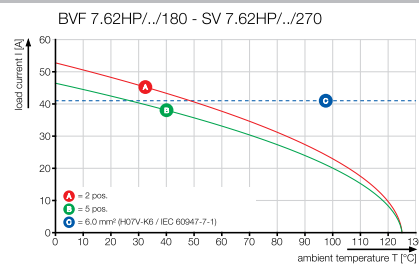
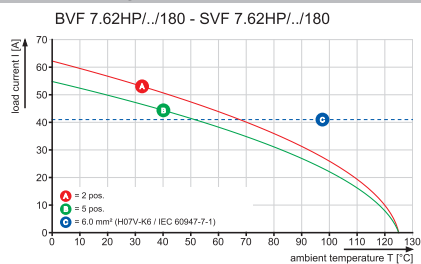
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1060440000	
3	15.24	0.600	40	1060450000	
4	22.86	0.900	30	1060470000	
5	30.48	1.200	25	1060480000	
6	38.10	1.500	25	1060490000	

**Ordering data**

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1060500000	
3	15.24	0.600	40	1060510000	
4	22.86	0.900	30	1060520000	
5	30.48	1.200	25	1060530000	
6	38.10	1.500	25	1060540000	

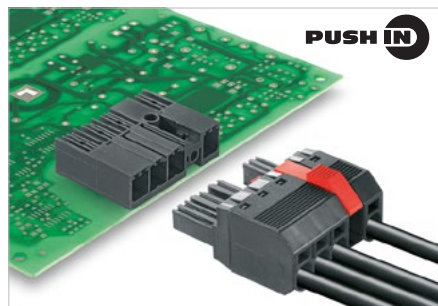


**Additional deratings curves**



**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**BVF 7.62HP../180MF**



Female plug in 180° outlet direction with "PUSH IN" spring connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange available in positions 2, 3 and 4.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...10</b>	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	1.5...10	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	<b>57</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG	24-8	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 57 A / 0.5 - 10 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

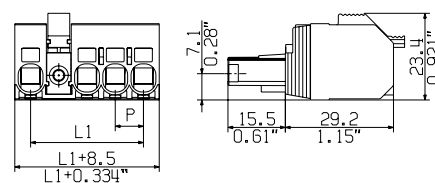
**Note:**

- Additional colours on request
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3
- Versions with pusher, see BVFL

**BVF 7.62HP../180MF2**



**Dimensioned drawing**



**K**

**7.62**

**180°**

**6 mm<sup>2</sup>**

**Accessories**

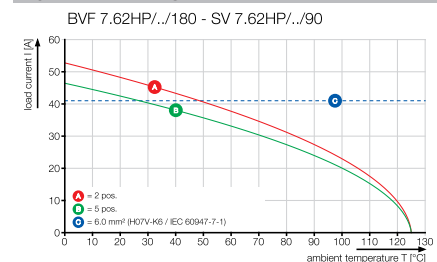
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
<b>Strain relief</b>	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
<b>Screwdriver</b>	
SDS 0.8X4.5X125	9009020000
<b>Crimping tool</b>	
PZ 6/5	9011460000

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	65	1060550000
3	22.86	0.900	50	1060570000
4	30.48	1.200	40	1430120000
5	38.10	1.500	30	1430130000
6	45.72	1.800	25	2629920000

**Representative deratings curve**



BVF 7.62HP/./180MF3

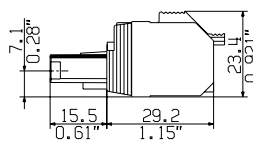
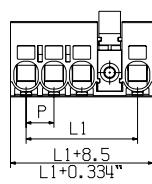
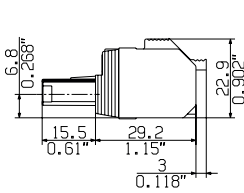
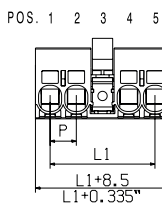


Dimensioned drawing

BVF 7.62HP/./180MF4



Dimensioned drawing



Ordering data

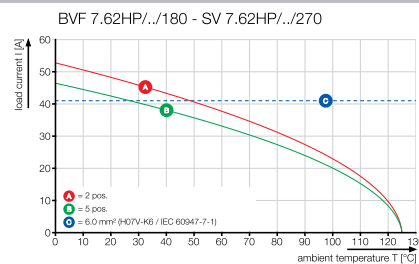
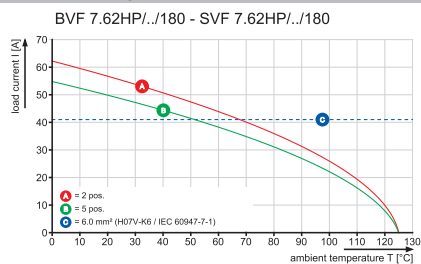
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1060580000	
4	30.48	1.200	40	1060590000	
5	38.10	1.500	30	1060600000	
6	45.72	1.800	25	2630270000	

Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	40	1430140000	
5	38.10	1.500	30	1060610000	
6	45.72	1.800	25	1060620000	



Additional deratings curves

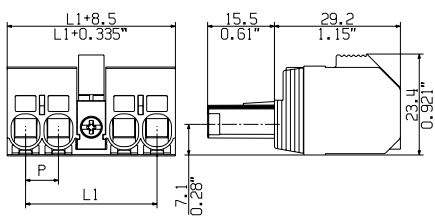




BVF 7.62HP../180MSF3



Dimensioned drawing



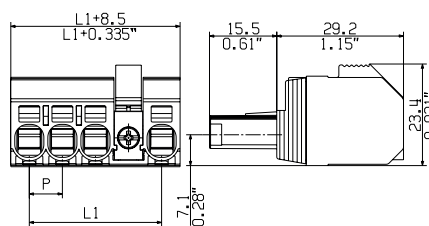
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1060650000	
4	30.48	1.200	40	1060670000	
5	38.10	1.500	30	1060680000	
6	45.72	1.800	25	2630320000	

BVF 7.62HP../180MSF4



Dimensioned drawing

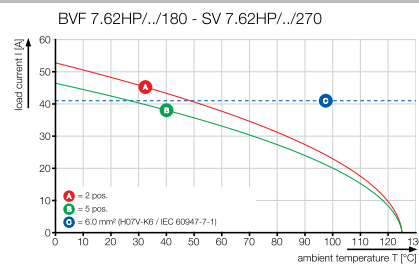
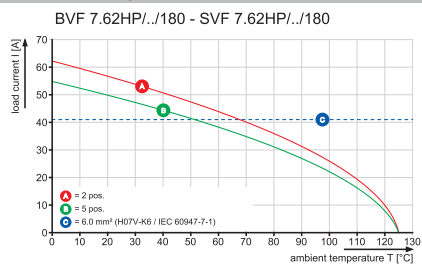


Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	40	1430110000	
5	38.10	1.500	30	1060690000	
6	45.72	1.800	25	1060700000	

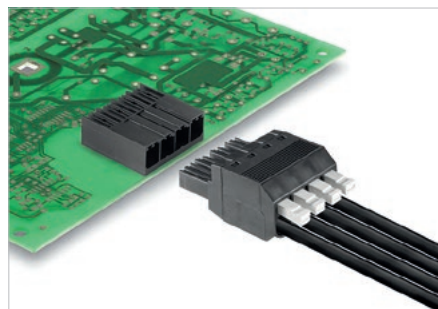


Additional deratings curves



**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**BVFL 7.62HP../180**



Female plug with 180° outlet direction, adjustable actuator (pusher) and PUSH IN spring connection technology for TNC(S) networks.  
 Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement ensures finger-safety of >3 mm in accordance with IEC 61800-5-1.

Maximum connection and operating reliability thanks to derating up to 125°C, unique coding diversity and a pin arrangement that ensures failsafe insertion.

Variants: flange, screw flange, middle flange and middle screw flange mounting.

**Product data**

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
 UL: 600 V / 39 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

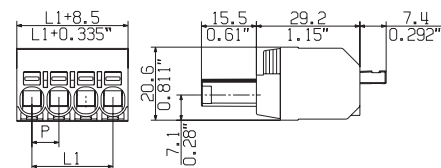
**Note:**

- Additional colours on request
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request

**BVFL 7.62HP../180**



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	1.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

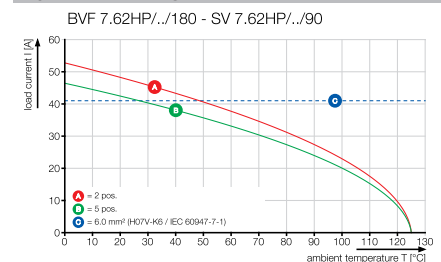
**Accessories**

Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	BV/SV 7.62HP K0	1937590000
Crimping tool		
	PZ 6/5	9011460000
Coupling set		
	SVF/BVF 7.62HP COUPLE SET	1440850000
Screwdriver		
	SDS 0.6X3.5X100	9008330000

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	114	2548870000
3	15.24	0.600	78	2548880000
4	22.86	0.900	60	1547520000
5	30.48	1.200	42	2548890000

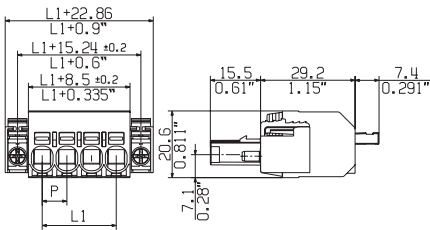
**Representative deratings curve**



BVFL 7.62HP../180F



Dimensioned drawing

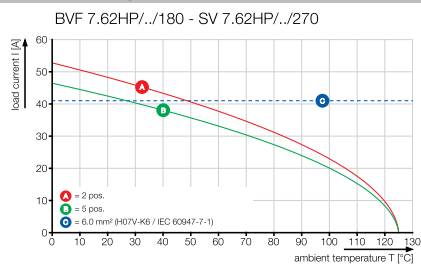


Ordering data

Solder pin length				
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	40	2549280000
3	15.24	0.600	40	2549340000
4	22.86	0.900	32	1547530000
5	30.48	1.200	25	2549350000

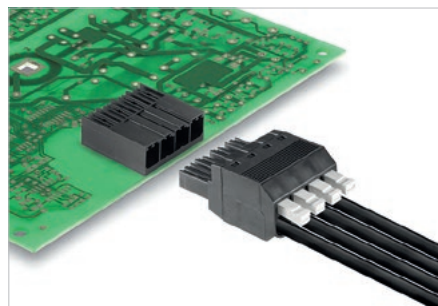


Additional deratings curves



Plug-in connector, pitch 7.62 mm  
BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>

BVFL 7.62HP../180MF



Female plug with 180° outlet direction, adjustable actuator (pusher) and PUSH IN spring connection technology for TNC(S) networks.  
Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement ensures finger-safety of >3 mm in accordance with IEC 61800-5-1.

Maximum connection and operating reliability thanks to derating up to 125°C, unique coding diversity and a pin arrangement that ensures failsafe insertion.

Variants: flange, screw flange, middle flange and middle screw flange mounting.

Product data

IEC: 1000 V / 41 A / 0.5 - 6 mm<sup>2</sup>  
UL: 600 V / 39 A / AWG 24 - 8



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

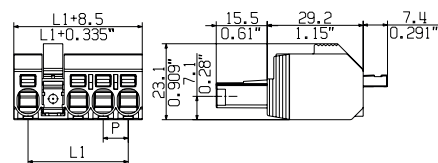
Note:

- Additional colours on request
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Additional pole combinations on request

BVFL 7.62HP../180MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	1.5...6	
Ferrule with plastic collar	mm <sup>2</sup>	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>800</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>39</b>	<b>39 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-8</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

Accessories

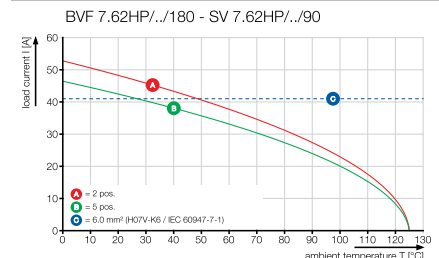
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
<b>Crimping tool</b>	
PZ 6/5	9011460000
<b>Coupling set</b>	
SVF/BVF 7.62HP COUPLE SET	1440850000
<b>Screwdriver</b>	
SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	52	2549300000
3	22.86	0.900	45	2549360000
4	30.48	1.200	40	2630700000
5	38.10	1.500	30	2630710000
6	45.72	1.800	25	2630720000

Representative deratings curve



K

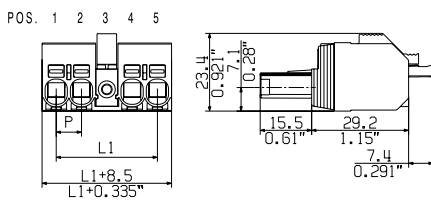
7.62

6 mm<sup>2</sup>

**BVFL 7.62HP../180MF3**



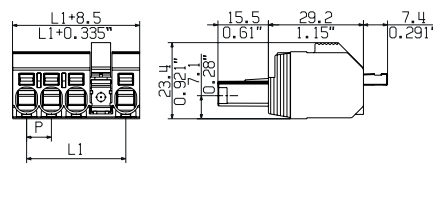
Dimensioned drawing



**BVFL 7.62HP../180MF4**



Dimensioned drawing



**Ordering data**

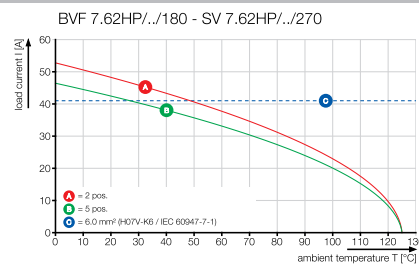
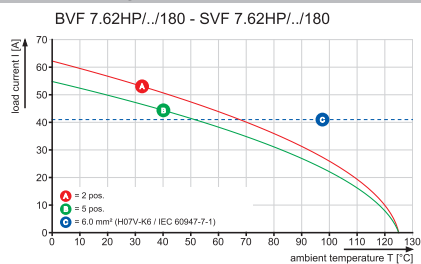
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	45	2549370000	
4	30.48	1.200	20	1547540000	
5	38.10	1.500	30	2549380000	
6	45.72	1.800	25	2630730000	

**Ordering data**

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	40	2630740000	
5	38.10	1.500	30	2549390000	

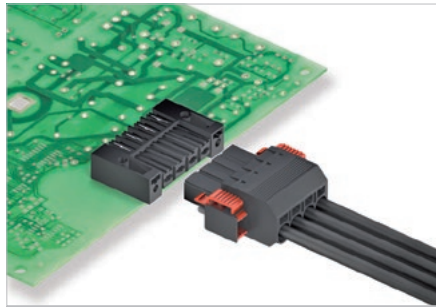


**Additional deratings curves**



**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**BVL 7.62HP../90**



Touch-safe female header with 90° outlet direction for PCBs. Meets the requirements of IEC 61800-5-1 and comes with UL approval in accordance with UL508-5-1 / UL840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. The pin arrangement ensures more than 3 mm of touch-safety in accordance with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, and unique coding diversity.

Variants: flange and screw flange fastening.

**Product data**

IEC: 1000 V / 56.8 A  
 UL: 300 V / 35 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

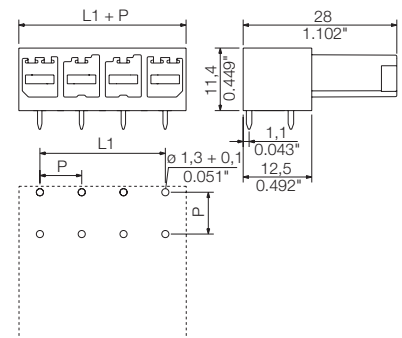
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**BVL 7.62HP../90**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>56.8</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtolerance category		III	III
Pollution severity		3	2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630</b>
Rated impulse voltage	kV	6	6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35</b>
<b>AWG conductor</b>	<b>AWG</b>	-	-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C</b>
Rated voltage	V	300	300
Rated current	A	35	35
AWG conductor	AWG	-	-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

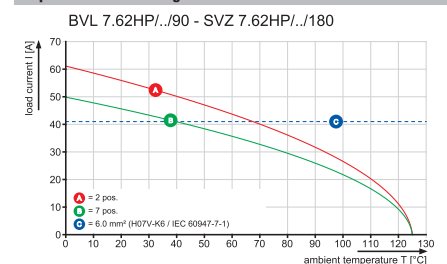
Coding	Order No.
BV/SV 7.62HP K0	1937590000



**Ordering data**

<b>Solder pin length</b>	3.5 mm			
<b>Colour</b>	Black			
<b>Pitch</b>	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928280000
3	15.24	0.600	100	1928290000
4	22.86	0.900	100	1928300000
5	30.48	1.200	50	1928310000
6	38.10	1.500	50	1928320000
7	45.72	1.800	50	1928330000

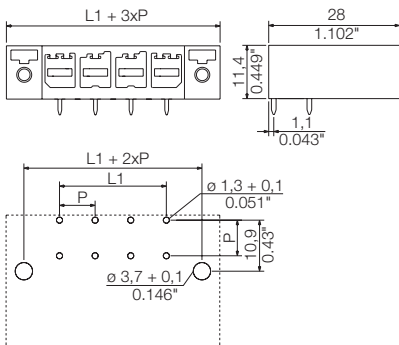
**Representative deratings curve**



BVL 7.62HP../90FI



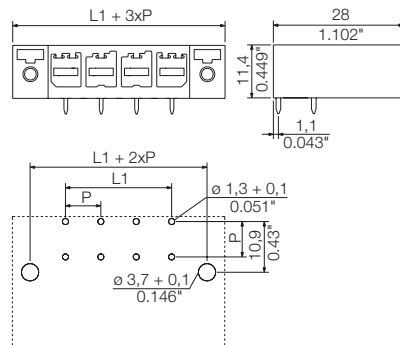
Dimensioned drawing



BVL 7.62HP../90SFI



Dimensioned drawing



Ordering data

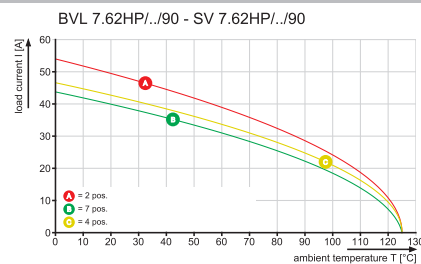
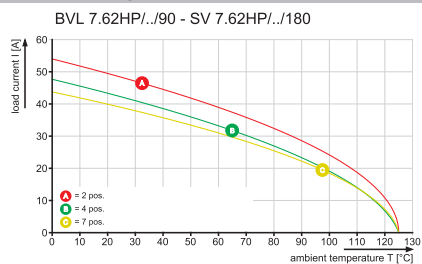
Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928390000
3	15.24	0.600	100	1928400000
4	22.86	0.900	100	1928410000
5	30.48	1.200	50	1928420000
6	38.10	1.500	50	1928430000
7	45.72	1.800	50	1928440000

Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928500000
3	15.24	0.600	100	1928510000
4	22.86	0.900	100	1928520000
5	30.48	1.200	50	1928530000
6	38.10	1.500	50	1928540000
7	45.72	1.800	50	1928550000

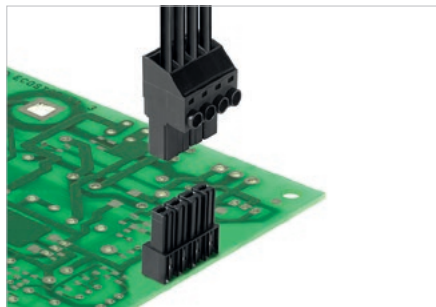


Additional deratings curves



**Plug-in connector, pitch 7.62 mm**  
**BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>**

**BVL 7.62HP../180**



Touch-safe female header with 180° outlet direction for PCBs. Meets the requirements of IEC 61800-5-1 and comes with UL approval in accordance with UL508-5-1 / UL840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. The pin arrangement ensures more than 3 mm of touch-safety in accordance with IEC 61800-5-1.

Characteristics: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, unique coding diversity, additional fixing and integral positioning aid.

Variants: flange and screw flange fastening.

**Product data**

IEC: 1000 V / 56.8 A  
 UL: 300 V / 42 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

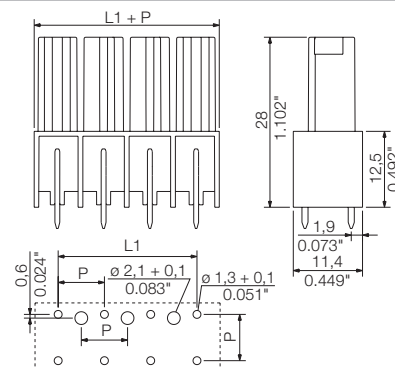
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**BVL 7.62HP../180**



**Dimensioned drawing**



**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>56.8</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>42</b>	<b>42 5</b>
<b>AWG conductor</b>	<b>AWG</b>	-	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG	-	
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

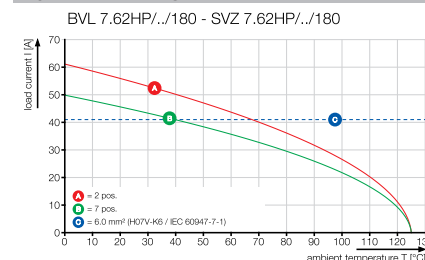
**Note:** Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
<b>Protection against twisting</b>		
	VDS180 SV7.62	1853940000

**Ordering data**

<b>Solder pin length</b>	3.5 mm			
<b>Colour</b>	Black			
<b>Pitch</b>	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928610000
3	15.24	0.600	100	1928620000
4	22.86	0.900	100	1928630000
5	30.48	1.200	50	1928650000
6	38.10	1.500	50	1928660000
7	45.72	1.800	50	1928670000

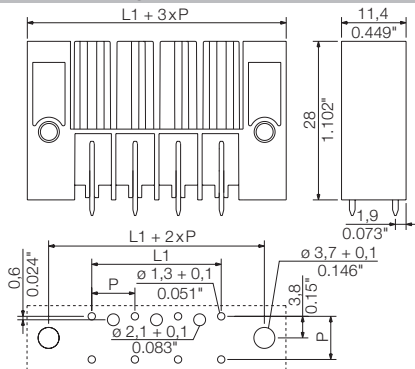
**Representative deratings curve**



BVL 7.62HP../180FI



Dimensioned drawing



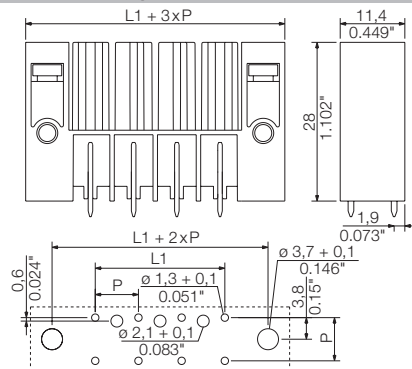
Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928730000
3	15.24	0.600	100	1928740000
4	22.86	0.900	100	1928750000
5	30.48	1.200	50	1928760000
6	38.10	1.500	50	1928770000
7	45.72	1.800	50	1928780000

BVL 7.62HP../180SFI



Dimensioned drawing

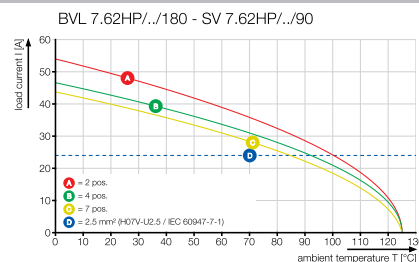
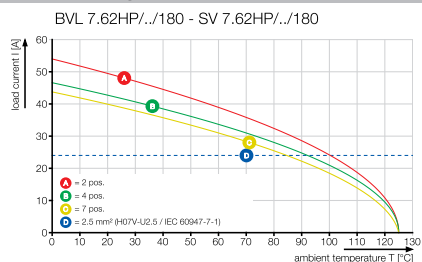


Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928840000
3	15.24	0.600	100	1928850000
4	22.86	0.900	100	1928860000
5	30.48	1.200	50	1928870000
6	38.10	1.500	50	1928900000
7	45.72	1.800	50	1928910000

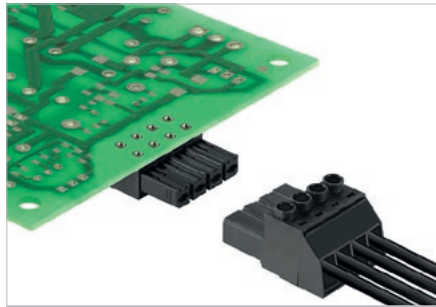


Additional deratings curves



Plug-in connector, pitch 7.62 mm  
BV/SV 7.62 series - connection up to 6 mm<sup>2</sup>

BVL 7.62HP../270



Finger-safe female header with 270° outlet direction for PCBs. Meets the requirements of IEC 61800-5-1 and comes with UL approval in accordance with UL508-5-1 / UL840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. The pin arrangement ensures more than 3 mm of touch-safety in accordance with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, and unique coding diversity.

Variants: flange and screw flange fastening.

Product data

IEC: 1000 V / 56.8 A  
UL: 300 V / 35 A



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

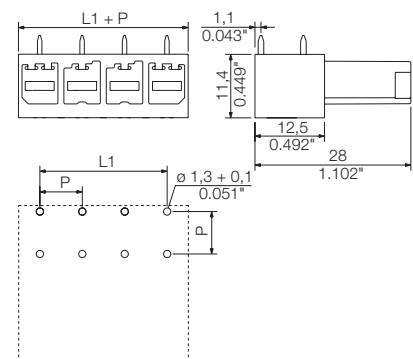
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVL 7.62HP../270



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>56.8</b>	<b>41</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III
Pollution severity		3	2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630</b>
Rated impulse voltage	kV	6	6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35</b>
<b>AWG conductor</b>	<b>AWG</b>		
<b>CSA (Use Group)</b>		<b>B</b>	<b>C</b>
Rated voltage	V	300	300
Rated current	A	35	35
AWG conductor	AWG		
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

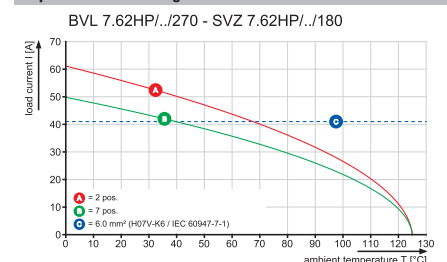
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000

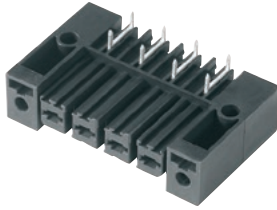
Ordering data

<b>Solder pin length</b>	3.5 mm			
<b>Colour</b>	Black			
<b>Pitch</b>	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1929300000
3	15.24	0.600	100	1929310000
4	22.86	0.900	100	1929320000
5	30.48	1.200	50	1929330000
6	38.10	1.500	50	1929340000
7	45.72	1.800	50	1929350000

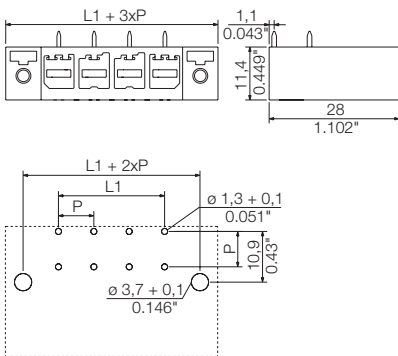
Representative deratings curve



BVL 7.62HP../270FI



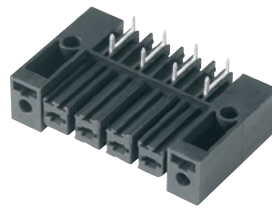
Dimensioned drawing



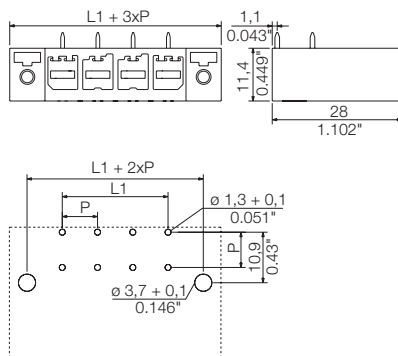
Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1929410000
3	15.24	0.600	100	1929420000
4	22.86	0.900	100	1929430000
5	30.48	1.200	50	1929440000
6	38.10	1.500	50	1929450000
7	45.72	1.800	50	1929460000

BVL 7.62HP../270SFI



Dimensioned drawing

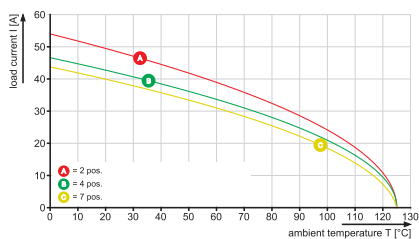


Ordering data

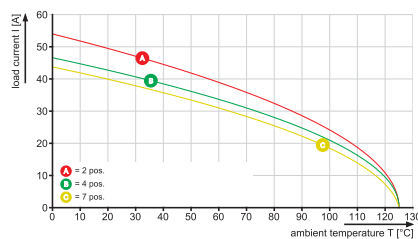
Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1929520000
3	15.24	0.600	100	1929530000
4	22.86	0.900	100	1929540000
5	30.48	1.200	50	1929550000
6	38.10	1.500	50	1929560000
7	45.72	1.800	50	1929570000

Additional deratings curves

BVL 7.62HP../270 - SV 7.62HP../180



BVL 7.62HP../270 - SV 7.62HP../90



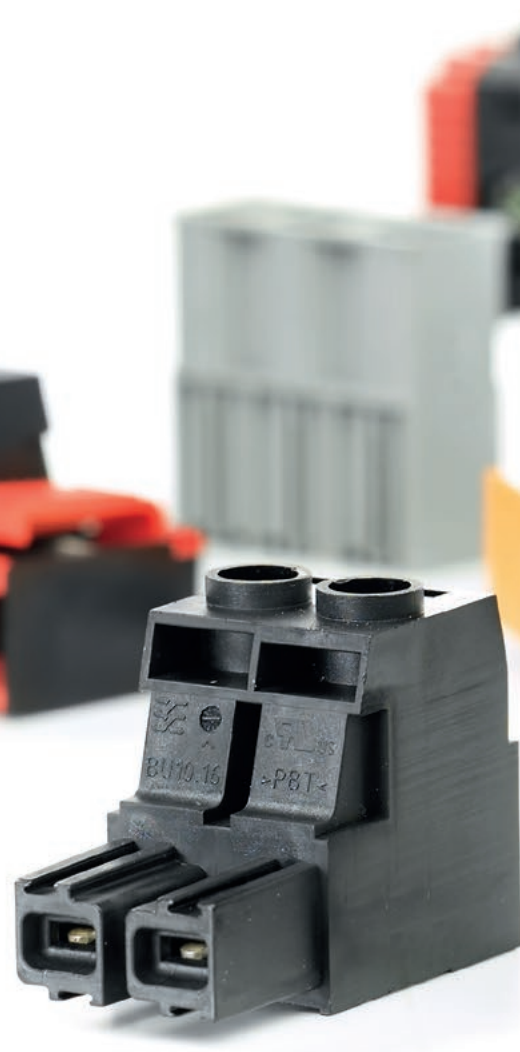
## Increased current for better performance

The top class in the OMNIMATE® Power SU / BUZ 10.16HP connector system features a very durable contact system which makes it a pluggable power transmission solution with maximum load reserves.

HP stands for High Performance – performance exemplified by a long-term usage temperature of 120 °C. This custom, pluggable solution is suitable for all applications that must meet 600 V UL or 1,000 V (IEC) with up to 76 A (IEC) and 54 A (UL).

### Compact reliability

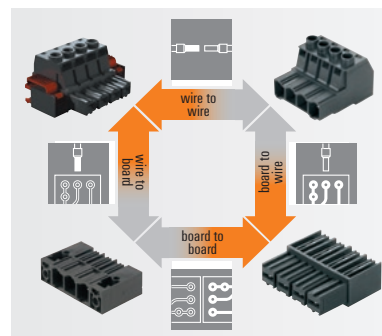
Silver-plated contacts with stainless-steel top springs can tolerate short-circuit currents of 1,000 A for one second. Weidmüller's classic clamping yoke features a plus-minus screw and is protected against under insertion. It ensures a long-term, reliable connection.





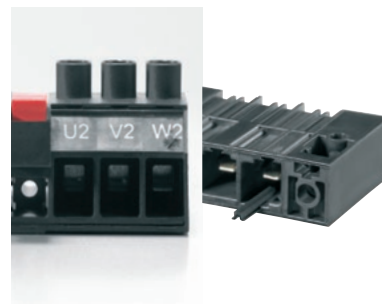
**High system performance**

The OMNIMATE® Power System up to 16 mm<sup>2</sup> can be individually combined with plugging mates that have an interlocking flange. It is also possible for the plugging mate to be screwed on.



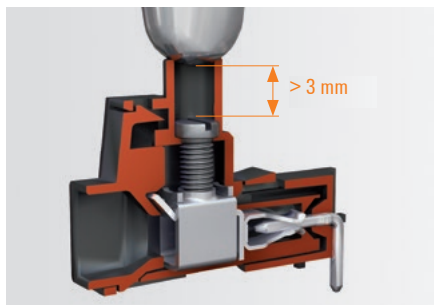
**Individualised configuration**

Clear printed labelling and customised coding are used to prevent damage that could be caused by installation mistakes.



**Compact integration**

No compromises during design and approval: compact and standard-compliant with additional + 3.0 mm finger safety, according to IEC 61800-5-1, and increased creepage and clearance distances according to UL.

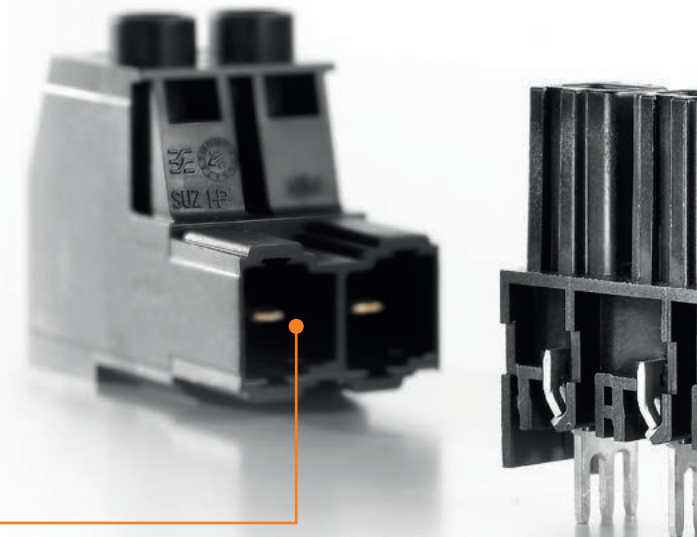


## Touch-safe female header for power electronics

### OMNIMATE® Power – plug-in connections for high power up to 76 A

Touch-safe protection for the contact blade is an important factor when considering high-power connectors. However such protection is currently quite difficult to design into standard products because of the size of the plug contacts.

We meet this challenge with our new BUL 10.16 female header in 10.16 mm pitch. The inverted plug ensures reliable touch protection for the unplugged, live side. This makes the BUL 10.16 a perfect-fit solution for board-to-wire connection in high-power electronics. You can also establish board-to-board connections when combined with the SU 10.16 HP standard male header.



#### Cannot be wrongly inserted

Only mated plugs with the same pole count fit together. The plugs' mating profiles make it impossible to connect plugs with different pole counts together.



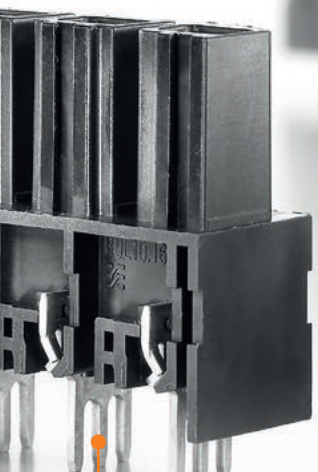
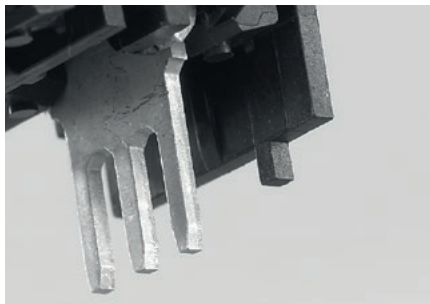
#### Plugging errors are not possible

With inserted coding elements, the male plug can only be connected with its corresponding female header.



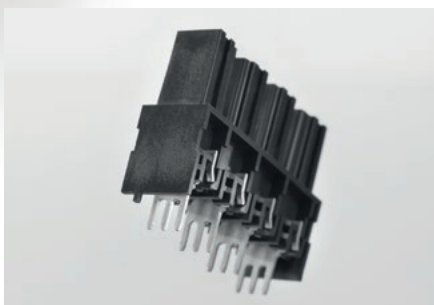
**Non-rotating assembly**

Improved reliability while assembling the circuit board: An integrated coding pin serves as an assembly guide so that the plug cannot be accidentally turned 180°.

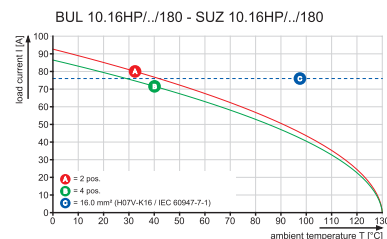


**High performance**

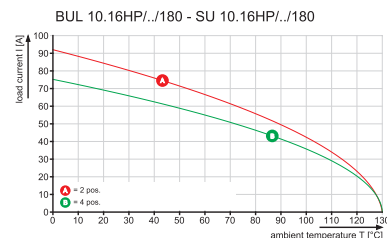
Three solder pins per pole provide the necessary mechanical strength while ensuring maximum current specifications.







**Derating curve for the BUL 10.16 HP female header together with the SUZ 10.16 HP male plug**

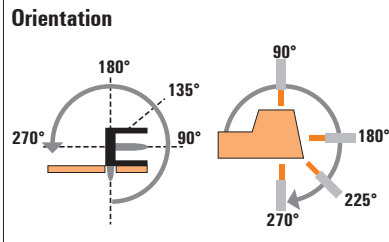
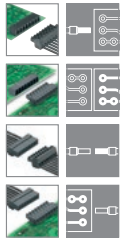


**Derating curve for the BUL 10.16 HP female header together with the SU 10.16 HP male header**



<http://www.OMNIMATE.net>

-  = Wire-to-Board
-  = Board-to-Board
-  = Wire-to-Wire
-  = Board-to-Wire



**BU/SU 10.16 series**





<b>Type</b>	<b>Orientation</b>	<b>Flange options</b>	<b>Product code numbers</b>
-------------	--------------------	-----------------------	-----------------------------

			Type	Orientation	Flange options	Product code numbers
Female plug	 <b>Screw Clamping yoke</b>		<b>BUZ</b>	180°	(G)/F/SF	IEC: 1.000 V/78 A/0.2 - 16 mm <sup>2</sup> UL: 600 V/60 A/AWG 22 - 4
	 <b>Spring PUSH IN</b>		<b>BUF IT</b>	180	(G)/F/SF	IEC: 1.000 V/78 A/0.2 - 16 mm <sup>2</sup> UL: 600 V/55 A/AWG 22 - 4
Female header	 <b>Solder connection</b>		<b>BUL</b>	180°	on request	"IEC: 1.000 V/76 A UL: 300 V/57 A"

**Female:**  
**(G)** = without flange  
**F** = Interlock flange  
**SF** = Interlock flange with screw

**Pin:**  
**G** = Closed (without flange)  
**F** = Interlock flange  
**SF** = Interlock flange with nut

**K**

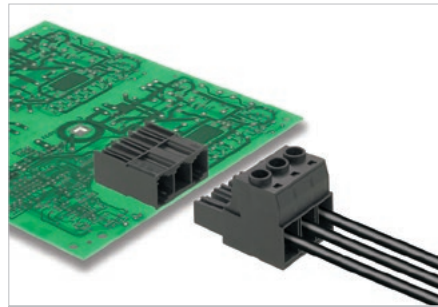
Male header	Male plug
 <b>Solder connection</b>	 <b>Screw Clamping yoke</b>



SU	SU	SU	SUZ
90°	180°	270°	180°
G/F	G/F/SF	G/F/SF	G
IEC: 1.000 V/76 A UL: 300 V/54 A"	IEC: 1.000 V/76 A UL: 300 V/54 A"	IEC: 1.000 V/76 A UL: 300 V/54 A"	IEC: 1.000 V/78 A/0.2 - 16 mm <sup>2</sup> UL: 600 V/57 A/AWG 24 - 4
○	○	○	●
○	○	○	●
●	●	●	●

**Plug-in connector, pitch 10.16 mm**  
**BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>**

**SU 10.16HP../90**



Male header with 90° outlet direction for TNC(S) systems. UL approval for 600 V in acc. with UL508-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, and unique coding diversity.

Variants: flange and screw flange fastening.

**Product data**

IEC: 1000 V / 78.3 A  
UL: 300 V / 60 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

**Note:**

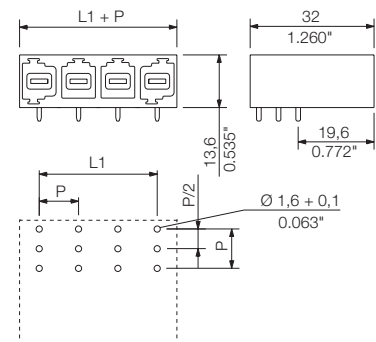
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SU 10.16HP../90G**

without flanges



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>690</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	60	60 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP / BV/SV7.62	1824410000
KO BU/SU10.16HP WT	2592600000

**Ordering data**

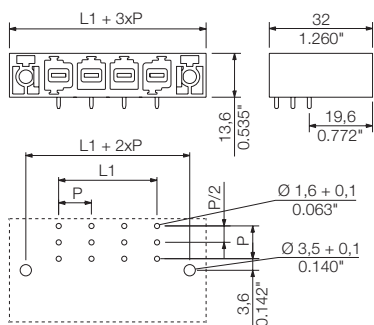
<b>Solder pin length</b>		3.5 mm		
<b>Colour</b>		Black		
<b>Pitch</b>		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	90	1813330000
3	20.32	0.800	60	1813340000
4	30.48	1.200	42	1813350000
5	40.64	1.600	36	1813360000
6	50.80	2.000	30	1813370000
7	60.96	2.400	24	1813380000
8	71.12	2.800	18	1813390000
9	81.28	3.200	18	1813400000

### SU 10.16HP../90F

#### Interlock flanges



Dimensioned drawing



#### Ordering data

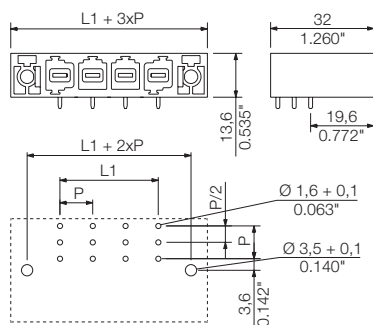
Solder pin length		3.5 mm		
Colour		Black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	42	1813570000
3	20.32	0.800	36	1813580000
4	30.48	1.200	30	1813590000
5	40.64	1.600	24	1813600000
6	50.80	2.000	18	1813610000
7	60.96	2.400	18	1813620000
8	71.12	2.800	18	1813630000
9	81.28	3.200	12	1813640000

### SU 10.16HP../90SF

#### Interlock flanges with nuts



Dimensioned drawing

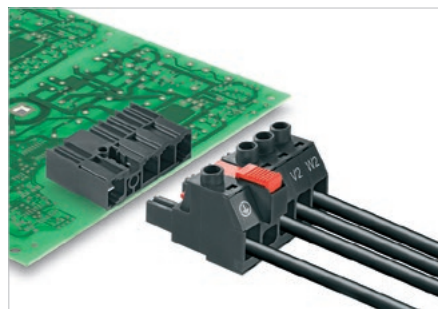


#### Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	42	1851040000
3	20.32	0.800	36	1851050000
4	30.48	1.200	30	1851060000
5	40.64	1.600	24	1851070000
6	50.80	2.000	18	1851080000
7	60.96	2.400	18	1851090000
8	71.12	2.800	18	1851100000
9	81.28	3.200	12	1851110000

Plug-in connector, pitch 10.16 mm  
BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>

SU 10.16HP../90MF



Male header in 90° outlet direction for TNC (S) systems. UL approved for 600 V in accordance with UL508 / UL840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1. Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>690</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	60	60 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface			
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 78.3 A  
UL: 300 V / 60 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

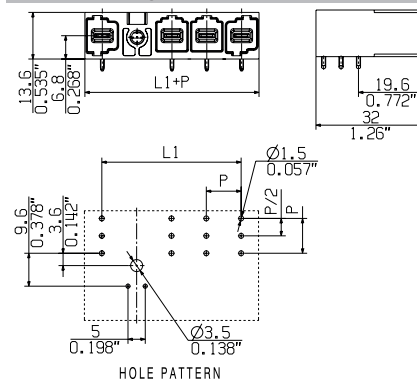
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SU 10.16HP../90MF2



Dimensioned drawing



Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch 10.16 mm			
Pol.	L1	(inch)	Qty. Order No.
2	20.32	0.800	60 <b>2580340000</b>
3	30.48	1.200	42 <b>2580390000</b>
4	40.64	1.600	36 <b>2580410000</b>
5	50.80	2.000	24 <b>2597200000</b>
6	60.96	2.400	20 <b>2597210000</b>

Accessories

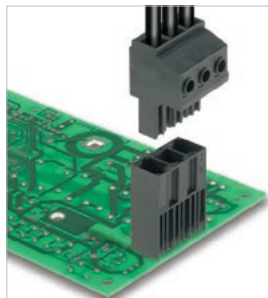
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP / BV/SV7.62	<b>1824410000</b>
KO BU/SU10.16HP WT	<b>2592600000</b>



Plug-in connector, pitch 10.16 mm  
BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>

SU 10.16HP/./180



Male header with 180° outlet direction for TNC(S) systems. UL approval for 600 V in acc. with UL508-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, unique coding diversity and integral positioning aid.

Variants: flange and screw flange fastening.

Product data

IEC: 1000 V / 78.3 A  
UL: 300 V / 60 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

Note:

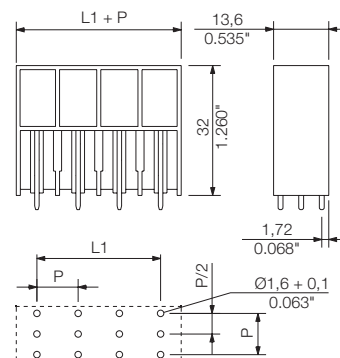
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SU 10.16HP/./180G

without flanges



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>690</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	60	60 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Protection against twisting		Order No.
	VDS180 SV7.62	1853940000
<b>Coding</b>		
	KO BU/SU10.16HP / BV/SV7.62	1824410000
	KO BU/SU10.16HP WT	2592600000

Ordering data

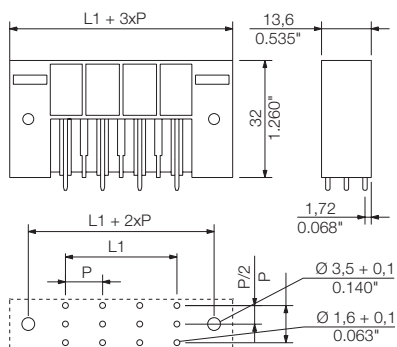
<b>Solder pin length</b>		3.5 mm		
<b>Colour</b>		Black		
<b>Pitch</b>		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	90	1813410000
3	20.32	0.800	60	1813420000
4	30.48	1.200	42	1813430000
5	40.64	1.600	36	1813440000
6	50.80	2.000	30	1813450000
7	60.96	2.400	24	1813460000
8	71.12	2.800	18	1813470000
9	81.28	3.200	18	1813480000

### SU 10.16HP../180F

#### Interlock flanges



Dimensioned drawing



#### Ordering data

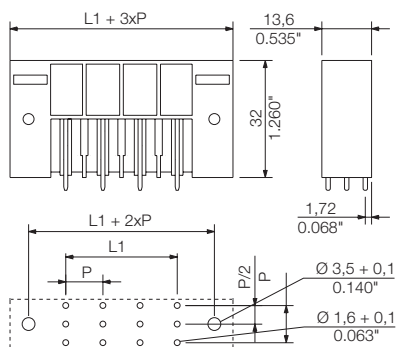
Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
2	10.16	0.400	42 <b>1813650000</b>
3	20.32	0.800	36 <b>1813660000</b>
4	30.48	1.200	30 <b>1813670000</b>
5	40.64	1.600	24 <b>1813680000</b>
6	50.80	2.000	18 <b>1813690000</b>
7	60.96	2.400	18 <b>1813700000</b>
8	71.12	2.800	18 <b>1813710000</b>
9	81.28	3.200	12 <b>1813720000</b>

### SU 10.16HP../180SF

#### Interlock flanges with nuts



Dimensioned drawing

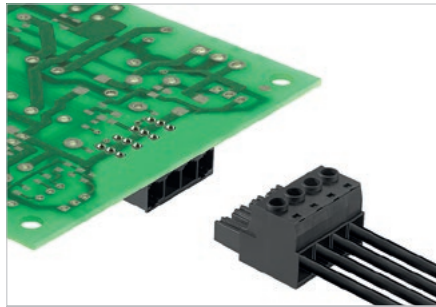


#### Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
2	10.16	0.400	42 <b>1850880000</b>
3	20.32	0.800	36 <b>1850890000</b>
4	30.48	1.200	30 <b>1850900000</b>
5	40.64	1.600	24 <b>1850910000</b>
6	50.80	2.000	18 <b>1850920000</b>
7	60.96	2.400	18 <b>1850930000</b>
8	71.12	2.800	18 <b>1850940000</b>
9	81.28	3.200	12 <b>1850950000</b>

**Plug-in connector, pitch 10.16 mm**  
**BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>**

**SU 10.16HP../270**



Male header with 270° outlet direction for TNC(S) systems. UL approval for 600 V in acc. with UL508-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, and unique coding diversity.

Variants: flange and screw flange fastening.

**Product data**

IEC: 1000 V / 78.3 A  
 UL: 300 V / 60 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

**Note:**

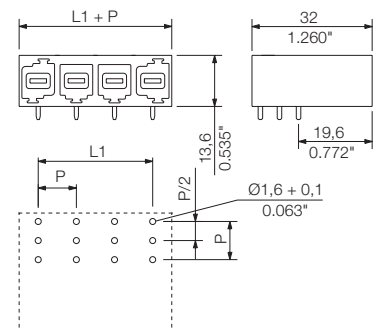
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SU 10.16HP../270G**

without flanges



**Dimensioned drawing**



**Technical data**

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>690</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	60	60 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Accessories**

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP / BV/SV7.62	1824410000
KO BU/SU10.16HP WT	2592600000

**Ordering data**

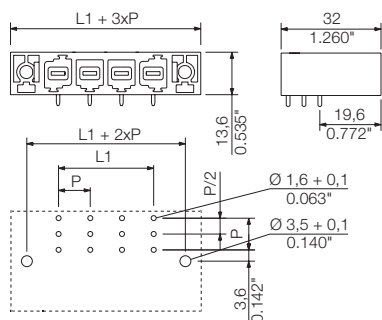
<b>Solder pin length</b>		<b>3.5 mm</b>		
<b>Colour</b>		<b>Black</b>		
<b>Pitch</b>		<b>10.16 mm</b>		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	90	1813490000
3	20.32	0.800	60	1813500000
4	30.48	1.200	42	1813510000
5	40.64	1.600	36	1813520000
6	50.80	2.000	30	1813530000
7	60.96	2.400	24	1813540000
8	71.12	2.800	18	1813550000
9	81.28	3.200	18	1813560000

### SU 10.16HP/./270F

#### Interlock flanges



Dimensioned drawing

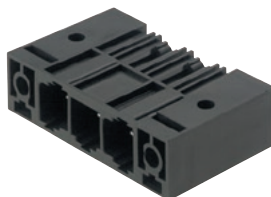


#### Ordering data

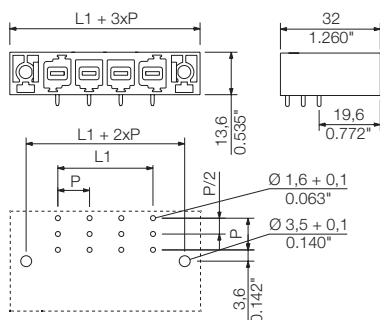
Solder pin length		3.5 mm			
Colour		Black			
Pitch		10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	42	1813730000	
3	20.32	0.800	36	1813740000	
4	30.48	1.200	30	1813750000	
5	40.64	1.600	24	1813760000	
6	50.80	2.000	18	1813770000	
7	60.96	2.400	18	1813780000	
8	71.12	2.800	18	1813790000	
9	81.28	3.200	12	1813800000	

### SU 10.16HP/./270SF

#### Interlock flanges with nuts



Dimensioned drawing

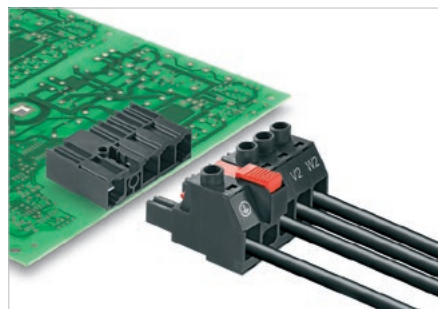


#### Ordering data

Solder pin length		3.5 mm			
Colour		Black			
Pitch		10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	42	1851120000	
3	20.32	0.800	36	1851130000	
4	30.48	1.200	30	1851140000	
5	40.64	1.600	24	1851150000	
6	50.80	2.000	18	1851160000	
7	60.96	2.400	18	1851170000	
8	71.12	2.800	18	1851180000	
9	81.28	3.200	12	1851190000	

Plug-in connector, pitch 10.16 mm  
BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>

SU 10.16HP../270MF



Male header with 270° outlet direction for TNC(S) systems. UL approval for 600 V in acc. with UL508-5-1 / UL840. The pin arrangement ensures more than 3 mm of touch-safety in acc. with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or incorrect wiring, and unique coding diversity.

Variants: flange and screw flange fastening.

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>78.3</b>	<b>70.6</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>690</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300 600</b>
<b>Rated current</b>	<b>A</b>	<b>60</b>	<b>60 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>-</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	300	300 600
Rated current	A	60	60 5
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material			
UL 94 flammability rating			
Contact base material			
Material of contact surface			
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 78.3 A  
UL: 300 V / 60 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

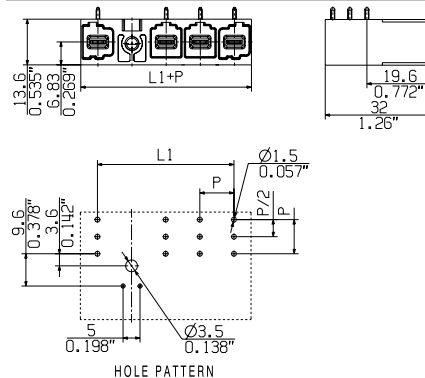
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SU 10.16HP../270MF2



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP / BV/SV7.62	1824410000
KO BU/SU10.16HP WT	2592600000

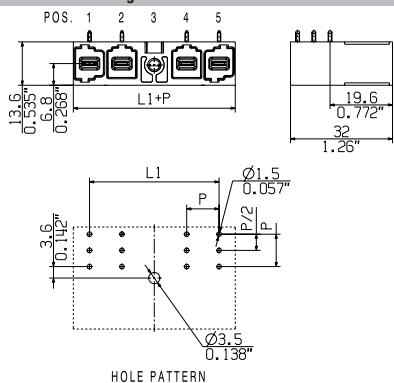
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
<b>Pitch 10.16 mm</b>			
Pol.	L1	(inch)	Qty. Order No.
2	10.16	0.400	60 2580350000
3	20.32	0.800	42 2580830000
4	30.48	1.200	36 2580860000
5	40.64	1.600	20 2597290000
6	50.80	2.000	20 2597300000

SU 10.16HP../270MF3



Dimensioned drawing



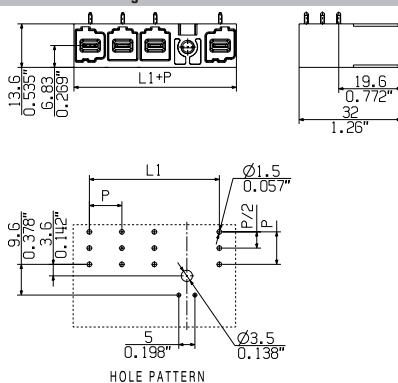
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
3	20.32	0.800	42 <b>2580850000</b>
4	30.48	1.200	36 <b>2580870000</b>
5	40.64	1.600	20 <b>2597310000</b>
6	50.80	2.000	20 <b>2597320000</b>

SU 10.16HP../270MF4



Dimensioned drawing



Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
4	30.48	1.200	36 <b>2580880000</b>
5	40.64	1.600	20 <b>2597330000</b>
6	50.80	2.000	20 <b>2597340000</b>



**Plug-in connector, pitch 10.16 mm**  
**BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>**

**SUZ 10.16HP../180**



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch safety of more than 3 mm according to IEC 61800-5-1 when connected.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange on request.

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.2...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...16</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.25...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...10	
Stripping length	mm	12	
Screwdriver blade	mm	1.0 x 5.5	
According to norm		DIN 5264	
Tightening torque range	Nm	1.2...1.5	
<b>Rated current, max.</b>	<b>A</b>	<b>78</b>	<b>72</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>57</b>	<b>57 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-6</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	57	57 5
AWG conductor	AWG	24-6	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 78 A / 0.2 - 16 mm<sup>2</sup>  
 UL: 600 V / 57 A / AWG 24 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

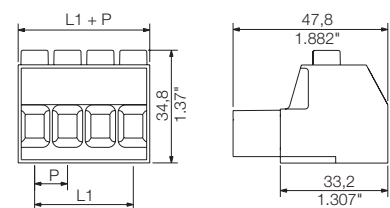
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**SUZ 10.16HP../180G**



**Dimensioned drawing**



**Accessories**

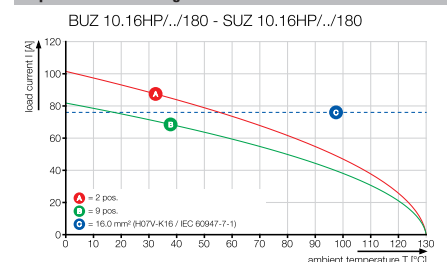
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP / BV/SV7.62	<b>1824410000</b>
KO BU/SU10.16HP WT	<b>2592600000</b>
Screwdriver	
SDIS 1.0X5.5X125	<b>9008410000</b>
SDK PZ2	<b>9008540000</b>
Crosshead screwdriver	
SDIK PZ2	<b>9008890000</b>

**Ordering data**

Solder pin length				
Colour	<b>Black</b>			
Pitch	<b>10.16 mm</b>			
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	64	<b>1947480000</b>
3	20.32	0.800	44	<b>1947490000</b>
4	30.48	1.200	32	<b>1947500000</b>
5	40.64	1.600	26	<b>1947510000</b>
6	50.80	2.000	22	<b>1966920000</b>
7	60.96	2.400	18	<b>1966930000</b>
8	71.12	2.800	16	<b>1962400000</b>
9	81.28	3.200	14	<b>1966910000</b>

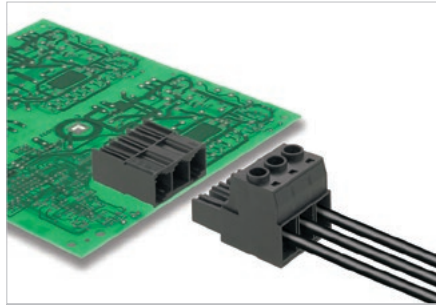
**Representative deratings curve**





**Plug-in connector, pitch 10.16 mm**  
**BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>**

**BUZ 10.16HP/./180**



Female plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. Ensures touch-safety of

> 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.	mm <sup>2</sup>	0.2...16
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.2...16</b>
Stranded H07 V-R		...16
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16
Flexible with ferrule	mm <sup>2</sup>	0.25...16
Ferrule with plastic collar	mm <sup>2</sup>	0.25...16
Stripping length	mm	12
Screwdriver blade	mm	1.0 x 5.5
According to norm		DIN 5264
Tightening torque range	Nm	1.2...1.5
<b>Rated current, max.</b>	<b>A</b>	<b>78.3 70.6</b>
At ambient temperature		20°C 40°C
For conductor cross-section	mm <sup>2</sup>	16
Overtoltage category		III III II
Pollution severity		3 2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000 1000 1000</b>
Rated impulse voltage	kV	8 8 6
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	

<b>Rated voltage</b>	<b>V</b>	<b>600 600 600</b>
<b>Rated current</b>	<b>A</b>	<b>60 60 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>22-4</b>
<b>CSA (Use Group)</b>	<b>B C D</b>	
Rated voltage	V	600 600 600
Rated current	A	60 60 5
AWG conductor	AWG	22-4

<b>General data</b>		
Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Copper alloy
Material of contact surface		silver-plated
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

**Product data**

IEC: 1000 V / 78.3 A / 0.2 - 16 mm<sup>2</sup>  
 UL: 600 V / 60 A / AWG 22 - 4



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

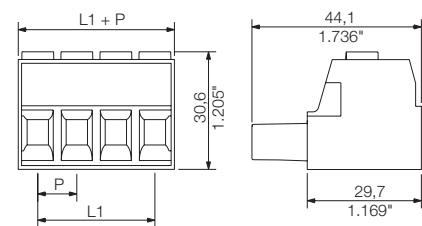
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**BUZ 10.16HP/./180**



**Dimensioned drawing**



**Ordering data**

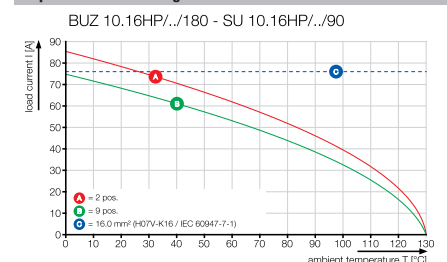
<b>Solder pin length</b>				
<b>Colour</b>	<b>Black</b>			
<b>Pitch</b>	<b>10.16 mm</b>			
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>	<b>Order No.</b>
2	10.16	0.400	60	1924540000
3	20.32	0.800	40	1924550000
4	30.48	1.200	28	1924560000
5	40.64	1.600	24	1924570000
6	50.80	2.000	20	1924580000
7	60.96	2.400	16	1924590000
8	71.12	2.800	12	1924600000
9	81.28	3.200	12	1924610000

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

<b>Coding</b>	<b>Order No.</b>
KO BU/SU10.16HP / BV/SV7.62	1824410000
KO BU/SU10.16HP WT	2592600000
<b>Screwdriver</b>	
SDIS 1.0X5.5X125	9008410000
SDK PZ2	9008540000
<b>Crosshead screwdriver</b>	
SDIK PZ2	9008890000

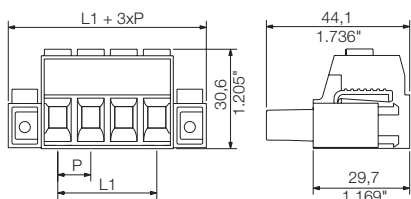
**Representative deratings curve**



**BUZ 10.16HP../180F**



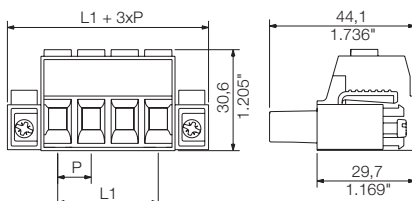
Dimensioned drawing



**BUZ 10.16HP../180SF**



Dimensioned drawing



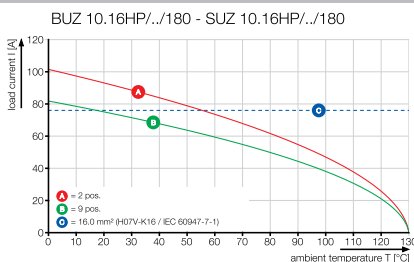
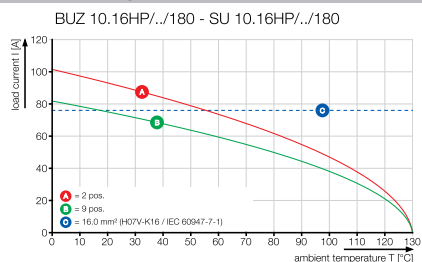
**Ordering data**

Solder pin length					
Colour					Black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	28	1924620000	
3	20.32	0.800	24	1924630000	
4	30.48	1.200	20	1924640000	
5	40.64	1.600	16	1924650000	
6	50.80	2.000	12	1924660000	
7	60.96	2.400	12	1924670000	
8	71.12	2.800	12	1924680000	
9	81.28	3.200	8	1924690000	

**Ordering data**

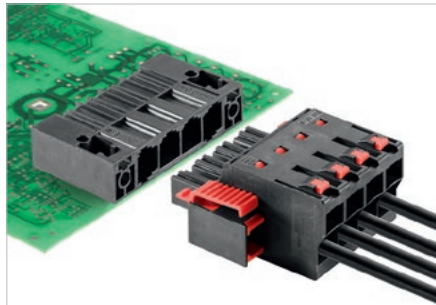
Solder pin length					
Colour					Black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	28	1924700000	
3	20.32	0.800	24	1924710000	
4	30.48	1.200	20	1924720000	
5	40.64	1.600	16	1924740000	
6	50.80	2.000	12	1924750000	
7	60.96	2.400	12	1924760000	
8	71.12	2.800	12	1924770000	
9	81.28	3.200	8	1924780000	

**Additional deratings curves**



**Plug-in connector, pitch 10.16 mm**  
**BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>**

**BUF 10.16IT../180**



Female plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. Ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1. Maximum operational reliability with a derating up to 125°C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

**Technical data**

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	2.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>2.5...10</b>	
Stranded H07 V-R		...16	
Flexible H05(07) V-K	mm <sup>2</sup>	2.5...16	
Flexible with ferrule	mm <sup>2</sup>	2.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	2.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm		DIN 5264	
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>70</b>
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16	
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>55</b>	<b>55</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>12-4</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm		
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

**Product data**

IEC: 1000 V / 76 A / 2.5 - 16 mm<sup>2</sup>  
 UL: 600 V / 55 A / AWG 12 - 4



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

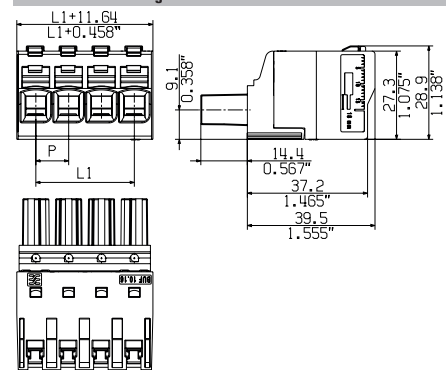
**Note:**

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**BUF 10.16IT../180**



**Dimensioned drawing**



**Accessories**

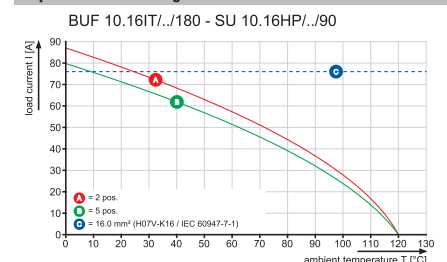
**Note:** Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BU/SU10.16HP / BV/SV7.62	<b>18244 10000</b>
KO BU/SU10.16HP WT	<b>259260000</b>
Screwdriver	
SDS 0.8X4.5X125	<b>900902000</b>

**Ordering data**

Solder pin length				
Colour	Black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	56	<b>2493170000</b>
3	20.32	0.800	36	<b>2493400000</b>
4	30.48	1.200	28	<b>2493410000</b>
5	40.64	1.600	24	<b>2493420000</b>
6	50.80	2.000	20	<b>2586520000</b>
7	60.96	2.400	20	<b>2586550000</b>
8	71.12	2.800	20	<b>2586560000</b>
9	81.28	3.200	20	<b>2586570000</b>

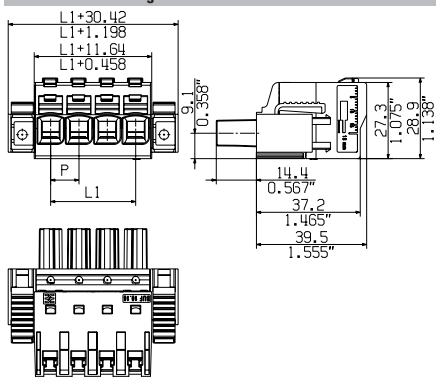
**Representative deratings curve**



BUF 10.16IT../180F



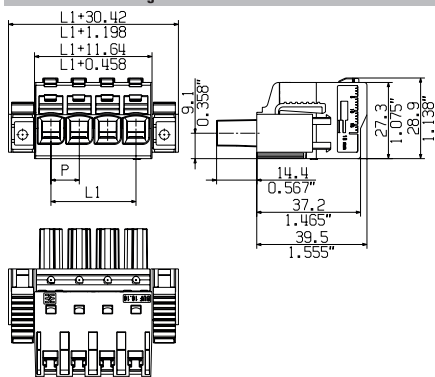
Dimensioned drawing



BUF 10.16IT../180SF



Dimensioned drawing



Ordering data

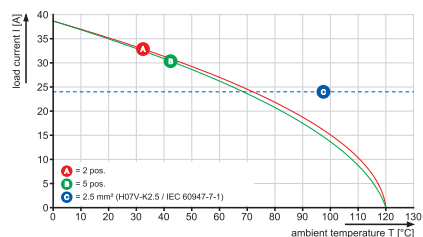
Solder pin length					
Colour					Black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	28	2493300000	
3	20.32	0.800	24	2493310000	
4	30.48	1.200	20	2493320000	
5	40.64	1.600	16	2493330000	
6	50.80	2.000	16	2586530000	
7	60.96	2.400	20	2586580000	
8	71.12	2.800	20	2586690000	
9	81.28	3.200	20	2586600000	

Ordering data

Solder pin length					
Colour					Black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	28	2493340000	
3	20.32	0.800	24	2493350000	
4	30.48	1.200	20	2493360000	
5	40.64	1.600	16	2493370000	
6	50.80	2.000	20	2586610000	
7	60.96	2.400	20	2586620000	
8	71.12	2.800	20	2586630000	
9	81.28	3.200	20	2586640000	

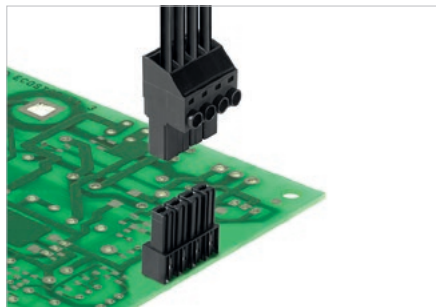
Additional deratings curves

BUF 10.16IT../180 - SU 10.16HP../90



**Plug-in connector, pitch 10.16 mm**  
**BU/SU 10.16 series - connection up to 16 mm<sup>2</sup>**

**BUL 10.16HP../180**



Finger-safe female header with 180° outlet direction for PCBs. Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL508 / UL840 for 600 V. An ideal finger-safe solution for power output and DC-link applications. The pin arrangement is finger-safe. The assembly coding ensures that it cannot be assembled on the PCB turned through 180°.

**Features:**

- Derating up to 130°C, 100%
- Pin arrangement that prevents wrong connections or wrong wiring
- Unique coding diversity and assembly coding

**Technical data**

**In compliance with IEC 60664-1 / IEC 61984**

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>69</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III
Pollution severity		3	2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>630</b>
Rated impulse voltage	kV	6	6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300</b>
<b>Rated current</b>	<b>A</b>	<b>57</b>	<b>57</b>
<b>AWG conductor</b>	<b>AWG</b>	-	-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C</b>
Rated voltage	V	300	300
Rated current	A	57	57
AWG conductor	AWG	-	-
<b>General data</b>			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

**Product data**

IEC: 1000 V / 76 A  
 UL: 300 V / 57 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

**Note:**

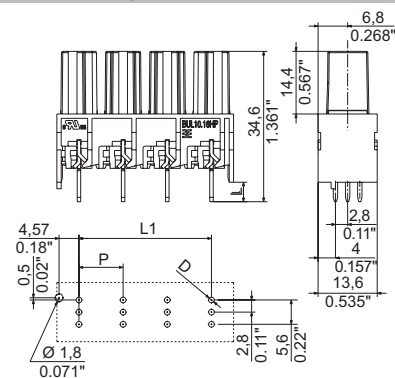
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**BUL 10.16HP../180**

Without flange



**Dimensioned drawing**



**Ordering data**

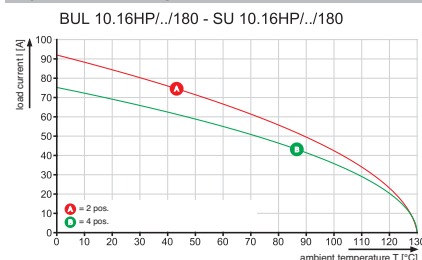
<b>Solder pin length</b>	4.5 mm		
<b>Colour</b>	Black		
<b>Pitch</b>	10.16 mm		
<b>Pol.</b>	<b>L1</b>	<b>(inch)</b>	<b>Qty.</b>
2	10.16	0.400	50
3	10.16	0.400	50
4	10.16	0.400	50
			<b>Order No.</b>
			1289000000
			1341270000
			1289010000

**Accessories**

**Note:** Refer to the Accessories chapter for additional accessories.

<b>Coding</b>	<b>Order No.</b>
KO BU/SU10.16HP / BV/SV7.62	1824410000
KO BU/SU10.16HP WT	2592600000

**Representative deratings curve**



# OMNIMATE® Power Through-Panel Terminals

## OMNIMATE® Power Through-Panel Terminals

Through-Panel Terminals for devices  
Series PGK 4 and WGK

Explanation	L.2
System overview	L.6
Quick selection	L.8

Through-Panel Terminals for devices  
Series PGK 4 – PUSH IN connection

Product selection	
- Max. clamping range 4 mm <sup>2</sup>	L.10

Through-Panel Terminals for devices  
Series WGK – connects up to 95 mm<sup>2</sup>

Product selection	
- Max. clamping range 6 mm <sup>2</sup>	L.12
- Max. clamping range 10 mm <sup>2</sup>	L.14
- Max. clamping range 16 mm <sup>2</sup>	L.16
- Max. clamping range 25 mm <sup>2</sup>	L.18
- Max. clamping range 35 mm <sup>2</sup>	L.20
- Max. clamping range 50 mm <sup>2</sup>	L.22
- Max. clamping range 95 mm <sup>2</sup>	L.24

# OMNIMATE® – PUSH IN PGK 4 through-panel terminal

## Comfortable, cost-saving installation and connection of conductors up to 4 mm<sup>2</sup>

**In your applications space is limited. Save space and time for your housing feedthrough with our flexible connection system. Let's connect.**

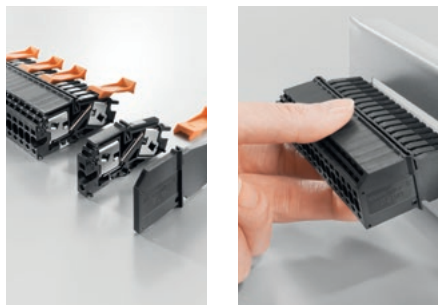
You are looking for a space-saving solution to quickly install wire connections for your device with panel or housing feed-throughs.

You'll find what you are looking for with our innovative PUSH IN connectivity technology solutions. Our PGK 4 feed-through terminal is worthy of note for its tool-free wire connection on the interior and exterior of your device. Thanks to its flexible, sliced construction and the intuitive fastening mechanism, it's easy for you to build blocks with plenty of poles.

With such features, our PGK 4 is currently the most compact and fastest solution for housing feedthroughs. Let's connect.

### Flexible application options

Due to its construction with only 5.1 mm wide slices, you can build simple, space-saving terminal blocks with plenty of poles.



### Clear marking

The terminals can be clearly labelled on the top and bottom, so that the terminal block can always be marked regardless of mounting position.

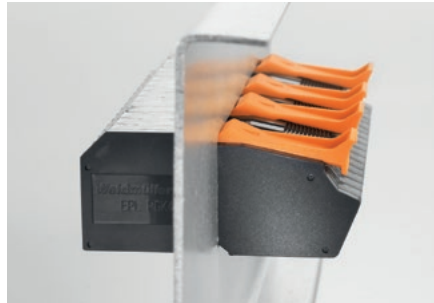
### Simple handling and reduced assembly costs

Enjoy the benefits of the intuitive fastening mechanism and the ability to fasten the terminal block in the housing cut-out in seconds.



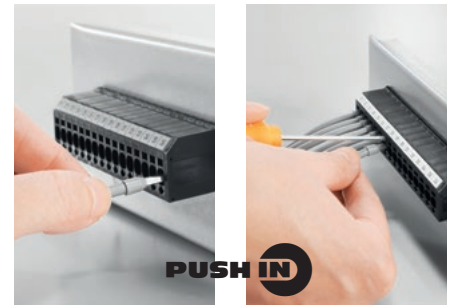
**Secure attachment through thick and thin**

The innovative terminal block fixing mechanism ensures a safe and reliable hold for the device feedthrough and is suited to panel thicknesses between 1.50 mm and 3.00 mm.



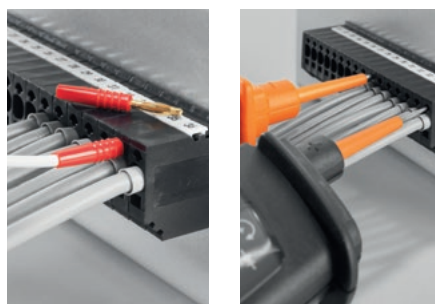
**Solid contact with a large connection cross-section**

Our innovative PUSH IN connection technology allows users to quickly and conveniently connect conductors. It also meets the need for permanent and vibration-resistant contacts. Conductor connections with a cross-section of up to 4.0 mm<sup>2</sup> with ferrules are possible.



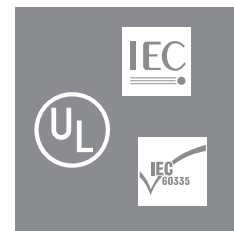
**Available for testing at any time**

You can perform a simple function check at any time using the easily accessible diagnostic test points.



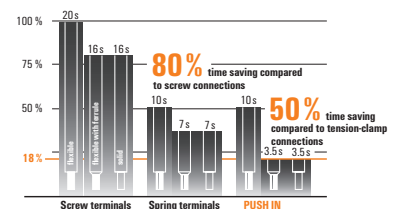
**Future-proofed materials and approvals**

Halogen-free materials and additional international approvals increase the application options for new device designs.



**Direct connected**

PUSH IN the quick, tool-free, intuitive connection mechanism for prepared wires. [www.push-in.com](http://www.push-in.com)



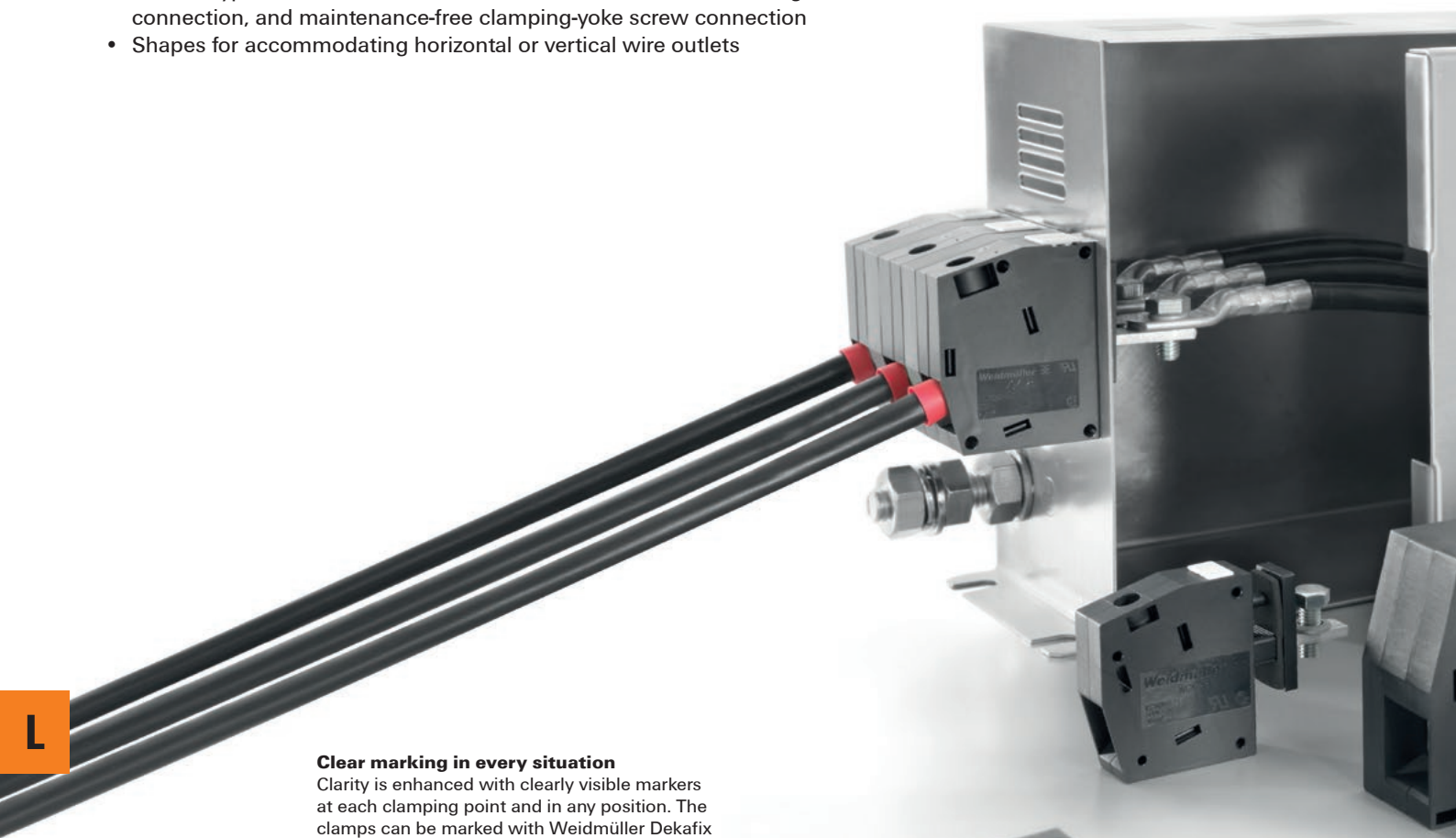
# Through-Panel Terminals

## WGK - OMNIMATE<sup>®</sup> Power

The universal solution to feed power through housing walls. Suitable for applications such as EMC filters, discretely structured converters for drive engineering, encapsulated equipment or inverters in the production of renewable energy.

Choose from the flexible range:

- Wide performance spectrum for currents up to 232 A and wire cross sections from 4 to 95 mm<sup>2</sup> (AWG 4/0)
- Various types of connections: castable solder connection, cable-lug-stud connection, and maintenance-free clamping-yoke screw connection
- Shapes for accommodating horizontal or vertical wire outlets



### Clear marking in every situation

Clarity is enhanced with clearly visible markers at each clamping point and in any position. The clamps can be marked with Weidmüller Dekafix markers and flexible paster tabs.



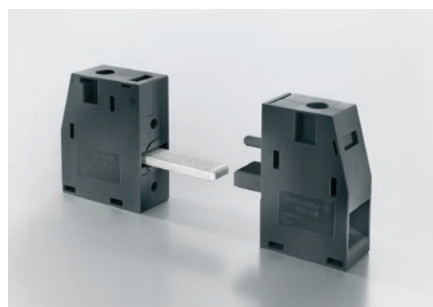
**Safety with extra power**

The high-performance insulating material WEMID meets maximum system availability requirements: With an RTI (relative temperature index) of 120 °C, the OMNIMATE® power Through-Panel Terminals exceed the highest continued use temperature of standard PA (100 °C) at +20° K, thus creating more power reserves and maximum safety with temperature fluctuations and overloads



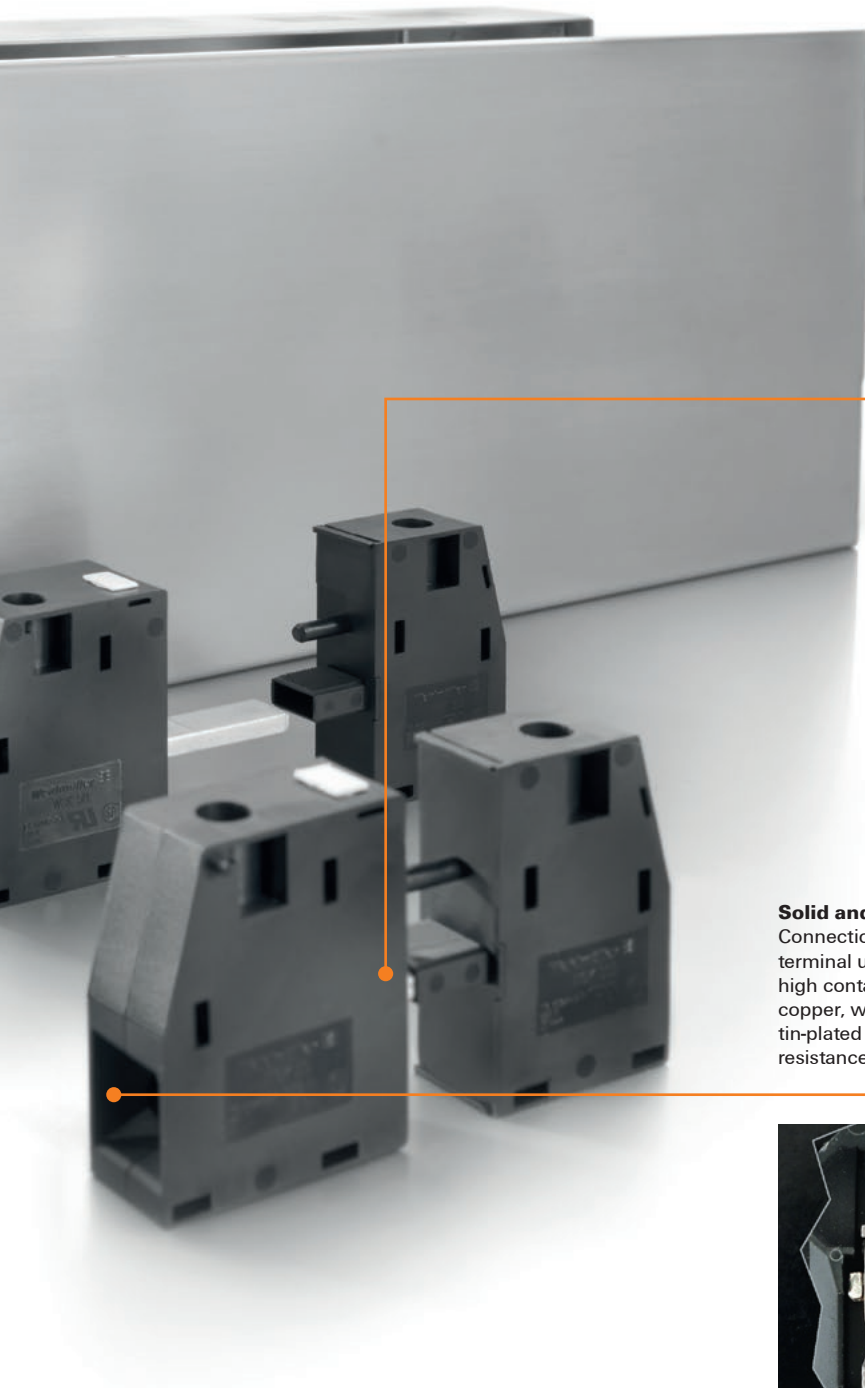
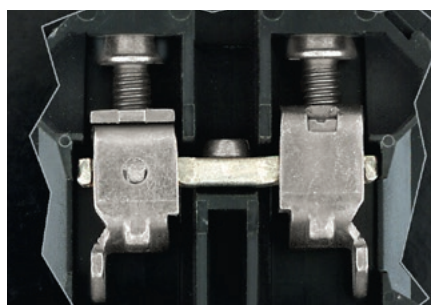
**Easy handling**

WGK series lead-through terminals consist of an inside and outside component that are easily locked with one another through the housing wall without any tools.








**Solid and proven connection**

Connections proven a million times. The terminal unit consists of hardened steel, for very high contact force. The current bar is made of copper, which gives a low voltage drop. The tin-plated surface ensures minimum contact resistances.



## WGK series - System overview

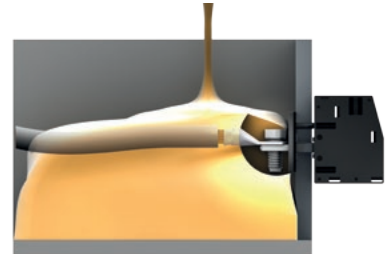
<p><b>WGK</b></p> 	<p><b>Easy installation</b></p> <p>WGK series feedthrough terminals consist of an inside and outside component that are easily locked with one another through the housing wall without any tools.</p>
	

<p><b>VWGK</b></p> 	<p><b>Maximum freedom of design</b></p> <p>Different types of connection on the inside such as a castable soldering connection (VWGK...), cable lug bolt connection (WGK ...VP) and a no-service clamping yoke-screw connection (WGK...) provide the optimum connection in any installation situation.</p>
<p><b>WGK...VP</b></p> 	
<p><b>WGK...WGKV</b></p> 	<p>Weidmüller offers two models with a horizontal (WGK) and vertical (WGKV) outgoing direction to adapt the conductor guide to the given installation conditions.</p>

L

The VP and VWGK models of the WGK lead-through terminals with an insulating housing and clamping yoke connection on the outside are enhanced for use in encapsulated and cast equipment (such as EMV filters).

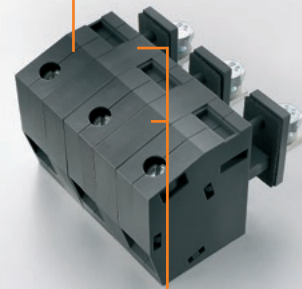
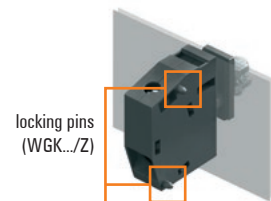
These products are developed for 100 % sealing in completely cast units.



All Through-Panel Terminals terminals are available with pins (WGK.../Z) for easy locking. Multi-pole blocks can be built up quickly and easily.

Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.

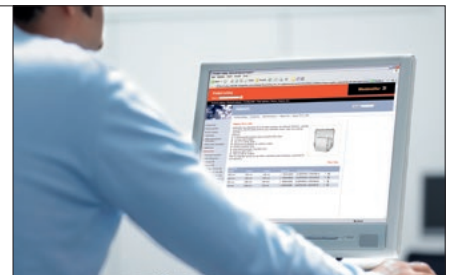
Distance plates (DP WGK...) can be easily mounted with locking pins.



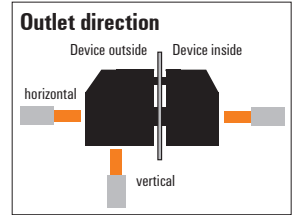
Fast and easy design in online CAD models. The CAD models for OMNIMATE® Power WGK lead-through terminals can be found in Weidmüller's online catalogue and in the PART community.

<http://catalog.weidmueller.com/>

<http://weidmueller.partcommunity.com/>



<http://www.OMNIMATE.net>



### Through-Panel terminals - WGK

Device Outside	Device Inside	Clamping range IEC Clamping range UL	Max. rated voltage IEC Nominal current UL		Type	Outlet direction	
Type of connection	Type of connection						
<b>PUSH IN</b>	<b>PUSH IN</b>	0.5 - 4 mm <sup>2</sup> 24 - 10 AWG	32 A 30 A		PGK 4	horizontal	
<b>Screw Clamping yoke</b>	<b>Solder connection</b>	0.5 - 6 mm <sup>2</sup> 30 - 10 AWG	32 A 30 A		VWGK 4	horizontal	
		0.5 - 10 mm <sup>2</sup> 22 - 8 AWG			VWGK 6	horizontal	
	<b>Screw Clamping yoke</b>	0.5 - 6 mm <sup>2</sup> 30 - 10 AWG	32 A 30 A		WGK 4 WGKV 4	horizontal vertical	
		0.5 - 16 mm <sup>2</sup> 24 - 6 AWG	57 A 65 A		WGK 10 WGKV 10	horizontal vertical	
	<b>Screw Clamping yoke</b>	<b>Cable lug</b>	0.5 - 25 mm <sup>2</sup> 20 - 4 AWG	76 A 85 A		WGK 16 WGKV 16	horizontal vertical
						WGK 16 VP	horizontal
	<b>Screw Clamping yoke</b>	<b>Cable lug</b>	6 - 35 mm <sup>2</sup> 10 - 3 AWG	101 A 100 A		WGK 25 WGKV 25	horizontal vertical
						WGK 25 VP	horizontal
	<b>Screw Clamping yoke</b>	<b>Cable lug</b>	16 - 50 mm <sup>2</sup> 6 - 1/0 AWG	150 A 145 A		WGK 50	horizontal
						WGK 50 VP	horizontal
	<b>Screw Clamping yoke</b>	<b>Cable lug</b>	35 - 95 mm <sup>2</sup> 4 - 4/0 AWG	232 A 230 A		WGK 95	horizontal
						WGK 95 F VP	horizontal

Max. rated voltage IEC	400 V	500 V	690 V	1,000 V
	300 V		600 V	
Nominal voltage UL				
		○		
		○		
		○		
	○			
		○		
			○	
			○	
			○	
			○	
				○
				○

## Feed-through terminals for devices PGK series – PUSH IN connection

max. clamping range: 4 mm<sup>2</sup>



The PGK 4 device feed-through terminal is the fastest and most compact solution for feed-throughs in housings.

The innovative "PUSH IN" connection system from Weidmüller makes for a simple, tool-free wire connection on the inside and outside of devices. The sliced design and an intuitive fastening mechanism enable high-density blocks to be constructed quickly and easily.

### Product data

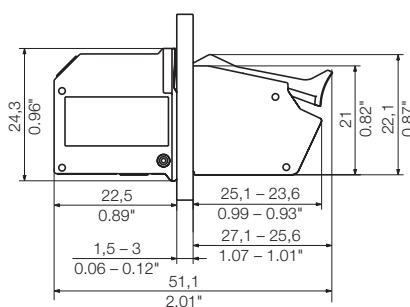
IEC: 500 V / 32 A / 0.5 - 4 mm<sup>2</sup>  
UL: 300 V / 30 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

#### Note:

- Packing unit incl. 30 locking elements (VREL PGK 4 OR - 1288610000)
- End plate required
- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional colours on request

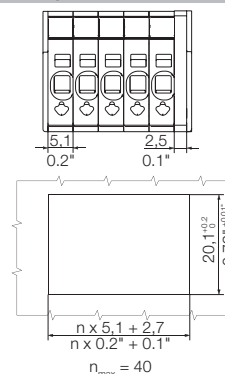


### PGK 4

"PUSH IN" connection



#### Dimensioned drawing



### Technical data

#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	0.5...4
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...4</b>
Stranded H07 V-R		
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...4
Flexible with ferrule	mm <sup>2</sup>	0.5...4
Ferrule with plastic collar	mm <sup>2</sup>	0.5...2.5
Stripping length	mm	12
Screwdriver blade	mm	0.4 x 2.5

According to norm

Tightening torque range  
**Rated current, max.**      **A**    **32**

At ambient temperature      20°C      40°C

For conductor cross-section      mm<sup>2</sup>      4

Overvoltage category      III      III      II

Pollution severity      3      2      2

**Rated voltage**      **500**

Rated impulse voltage      6

**UL / CUL (Use Group)**      **B**    **C**    **D**

**Rated voltage**      **V**    **300**    **150**    **300**

**Rated current**      **A**    **30**    **30**    **30**

**AWG conductor**      **AWG**    **24-10**

**CSA (Use Group)**      **B**    **C**    **D**

Rated voltage      V    300    150    300

Rated current      A    30    30    30

AWG conductor      AWG    24-10

#### General data

Type of insulation material      Wemid (PA)

UL 94 flammability rating      V-0

Contact base material      E-Cu

Material of contact surface      tinned

Pin dimensions = d      mm

Solder eyelet Ø = D      mm

Solder eyelet Ø tolerance      mm

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

**Additional locking**      **Order No.**

VREL PGK4 OR VPE 30      **1288610000**

**Testing / Checking**

PS 2.3 RT      **0180400000**

**Screwdriver**

SDS 0.4X2.5X75      **9009030000**

SDS 0.5X3.0X80      **9008320000**

**Pressing tool**

PZ 6/5      **9011460000**

### Ordering data

Type	Qty.	Order No.
PGK 4 BK	100	<b>1288470000</b>

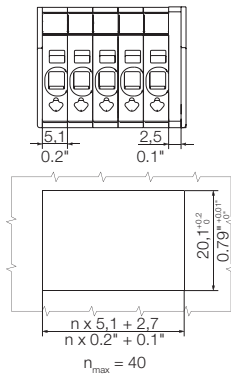
With lock pins

**PGK 4 BT**

"PUSH IN" connection



Dimensioned drawing



**Ordering data**

			With lock pins
Type	Qty.	Order No.	
PGK 4 BT BK	100	1288590000	

**EPL PGK 4**



Dimensioned drawing

**Ordering data**

			With lock pins
Type	Qty.	Order No.	
EPL PGK4 BK	50	1288600000	

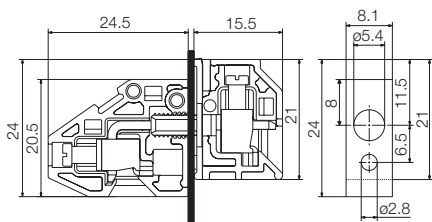


### WGKV 4

Screw connection



Dimensioned drawing



#### Ordering data

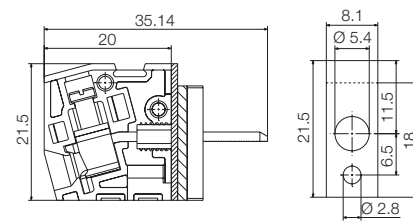
Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGKV 4/Z BK BX	50	1250960000			
WGKV 4/Z GN/YE BX	50	1936620000			
WGKV 4/Z GY BX	50	1936630000			
WGKV 4 BK BX	50		1250950000		
WGKV 4 GN/YE BX	50		1936610000		
WGKV 4 GY BX	50		1934050000		

### WGK 4 VP

Solder connection



Dimensioned drawing



#### Ordering data

Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGK 4 VP/Z BK BX	50	1339810000			
WGK 4 VP/Z GN/YE BX	50	1003900000			
WGK 4 VP/Z GY BX	50	1003910000			
WGK 4 VP BK BX	50		1339790000		
WGK 4 VP GN/YE BX	50		1003890000		
WGK 4 VP GY BX	50		1981890000		

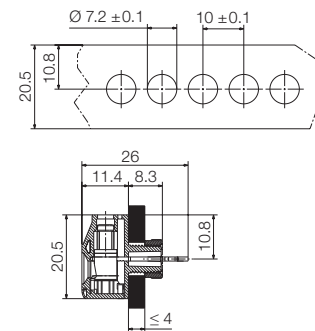
For the rated voltage of plastic and metal walls, see the "WGK" notes

### VWGK 4

Solder connection



Dimensioned drawing

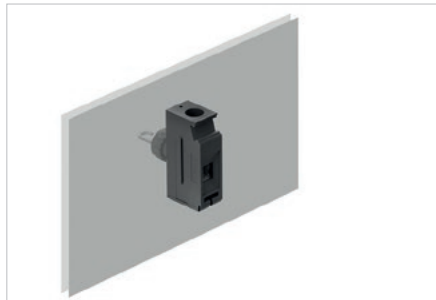


#### Ordering data

Type	Qty.	With lock pins	
		Order No.	Order No.
VWGK 4 BK BX	50	1250650000	
VWGK 4 GN/YE BX	50	1936480000	
VWGK 4 GY BX	50	1936490000	

## Feed-through terminals for devices WGK series – connection up to 95 mm<sup>2</sup>

max. clamping range: 10 mm<sup>2</sup>



The V versions of the WGK feed-through terminals with an insulated housing and clamping yoke connection on the outside, and a solder connection on the inside. Optimal connection options for use in encapsulated devices (e.g. EMC filters and/or fully insulated transformers).

The different peg types allow for a simple and quick assembly of multi-pole blocks.

### Product data

IEC: 500 V / 41 A / 0.5 - 10 mm<sup>2</sup>  
UL: 300 V / 50 A / AWG 22 - 10



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

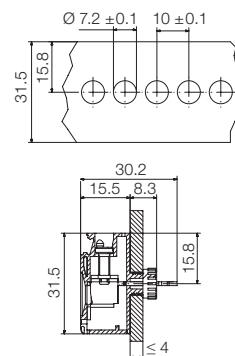
#### Note:

- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional colours on request
- VWGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 4 mm = 500 V

### VWGK 6



#### Dimensioned drawing



### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...10	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...10</b>	
Stranded H07 V-R		...6	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.5...6	
Ferrule with plastic collar			
Stripping length	mm	13	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range	Nm	0.8...1.8	
<b>Rated current, max.</b>	<b>A</b>	<b>41</b>	
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	6	
Overtension category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>		<b>500</b>	
Rated impulse voltage		6	
<b>UL / CUL (Use Group)</b>		<b>B C D</b>	
<b>Rated voltage</b>	<b>V</b>	<b>300 300 300</b>	
<b>Rated current</b>	<b>A</b>	<b>50 50 10</b>	
<b>AWG conductor</b>	<b>AWG</b>	<b>22-10</b>	
<b>CSA (Use Group)</b>		<b>B C D</b>	
Rated voltage	V	300 300 300	
Rated current	A	50 50 10	
AWG conductor	AWG	22-10	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate	Order No.
DP VWGK 6 BK BX	1250630000
DP VWGK 6 GY BX	1965750000
Screwdriver	
SDIS 0.8X4.0X100	9008400000
Identification systems	
DEK 5/5 MC NE WS	1609801044
DEK 5/6 MC NE WS	1609820000
DEK 5/8 MC NE WS	1856740000

### Ordering data

Type	Qty.	Order No.
VWGK 6 BK BX	50	2484810000
VWGK 6 GN/YE BX	50	2484680000
VWGK 6 GY BX	50	2484800000

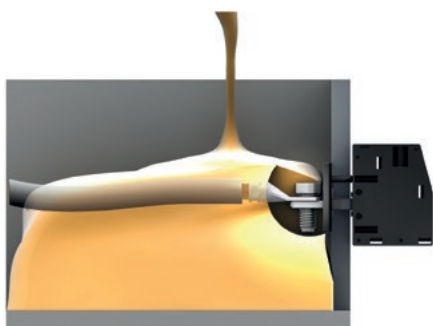
**No lock pins**

## Variants

The WGK...VP, VWGK 4 and VWGK 6 variants of the WGK series, with an insulating housing and clamping yoke connection on the outside, are specially enhanced for use in potted and through-panel applications.

These products are developed for 100 % sealing in completely enclosed units..

WGK variants are used, for example, as device connections for EMC filters or fully insulated transformers.



## Clamping yoke screw connection

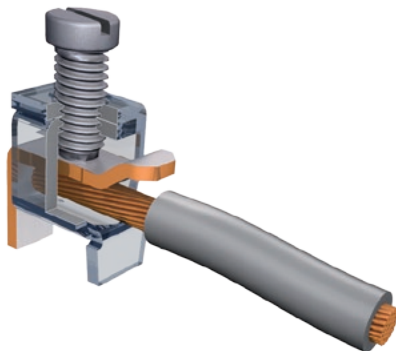
The clamping yoke connection is a proven connection in use around the world today.

Steel clamping yokes made using a stamping and bending process guarantee a vibration proof clamp connection.

When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening.

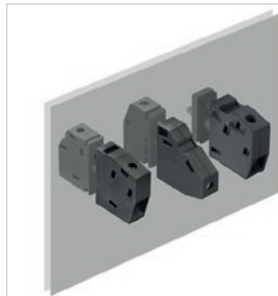
As the screw thread is on an inclined plane, the force is amplified and a very high clamping force is achieved.

Weidmüller uses hardened steel with optimised corrosion protection for stability and safety in addition to copper alloys in the contact area for good electrical conductivity.



## Feed-through terminals for devices WGK series – connection up to 95 mm<sup>2</sup>

max. clamping range: 16 mm<sup>2</sup>



The high-current feed-through terminals of the WGK series provide a universal solution for feeding currents of different magnitude through the enclosure wall.

Different types of connection on the inside, such as a solder connection which can be encapsulated (WGK...VP) or a maintenance-free clamping yoke screw connection (WGK...) with vertical and horizontal wire connections, provide the optimal connection for any installation situation.

The different peg types allow for a simple and quick assembly of multi-pole blocks.

### Product data

IEC: 500 V / 57 A / 0.5 - 16 mm<sup>2</sup>  
UL: 300 V / 65 A / AWG 24 - 6



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

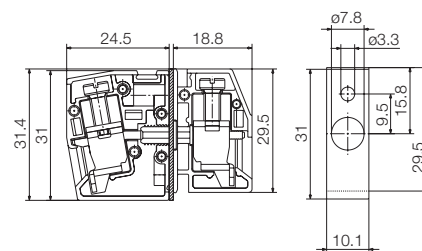
#### Note:

- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 2.5 mm = 400 V; metal walls: 2.5 - 4 mm = 250 V

### WGK 10



#### Dimensioned drawing



### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	10...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...10	
Flexible with ferrule	mm <sup>2</sup>	0.5...10	
Ferrule with plastic collar			
Stripping length	mm	11	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range	Nm	1.2...2.4	
<b>Rated current, max.</b>	<b>A</b>	<b>57</b>	
At ambient temperature		20°C	40°C
For conductor cross-section	mm <sup>2</sup>	10	
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>		<b>500</b>	
Rated impulse voltage		6	
<b>UL / CUL (Use Group)</b>		<b>B C D</b>	
<b>Rated voltage</b>	<b>V</b>	<b>300 300</b>	
<b>Rated current</b>	<b>A</b>	<b>65 65</b>	
<b>AWG conductor</b>	<b>AWG</b>	<b>24-6</b>	
<b>CSA (Use Group)</b>		<b>B C D</b>	
Rated voltage	V	300	300
Rated current	A	65	65
AWG conductor	AWG	24-6	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D			
Solder eyelet Ø tolerance	mm		

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate	Order No.
DP VWGK 6 BK BX	1250630000
DP VWGK 6 GY BX	1965750000
DP WGK 10 BK BX	
DP WGK 10 GY BX	
DP WGKV 10	
Screwdriver	
SDIS 0.8X4.0X100	9008400000
Identification systems	
DEK 5/5 MC NE WS	1609801044
DEK 5/6 MC NE WS	1609820000
DEK 5/8 MC NE WS	1856740000

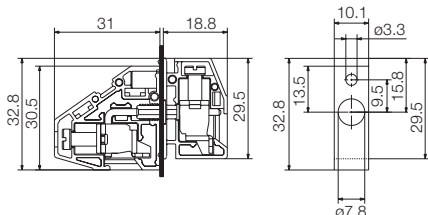
### Ordering data

Type	Qty.	Order No.	
		With lock pins	No lock pins
WGK 10/Z BK BX	50	2439460000	
WGK 10/Z GN/YE BX	50	2439400000	
WGK 10/Z GY BX	50	2439410000	
WGK 10 BK BX	50		2439470000
WGK 10 GN/YE BX	50		2439380000
WGK 10 GY BX	50		2439390000

## WGKV 10



Dimensioned drawing



### Ordering data

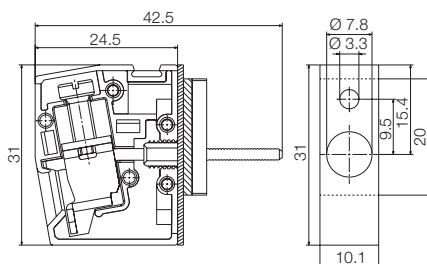
Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGKV 10/Z BK BX	50	2439580000			
WGKV 10/Z GN/YE BX	50	2439540000			
WGKV 10/Z GY BX	50	2439550000			
WGKV 10 BK BX	50		2439570000		
WGKV 10 GN/YE BX	50		2439530000		
WGKV 10 GY BX	50		2439520000		

For the rated voltage of plastic and metal walls, see the "WGK" notes

## WGK 10 VP



Dimensioned drawing



### Ordering data

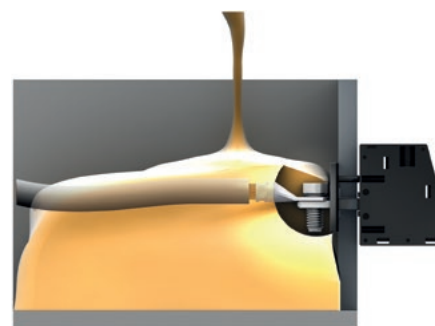
Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGK 10 VP/Z GN/YE BX	50	2439440000			
WGK 10 VP/Z GY BX	50	2439420000			
WGK 10 VP GN/YE BX	50		2439430000		
WGK 10 VP GY BX	50		2439450000		

For the rated voltage of plastic and metal walls, see the "WGK" notes

## Variants

The WGK...VP, VWGK 4 and VWGK 6 variants of the WGK series, with an insulating housing and clamping yoke connection on the outside, are specially enhanced for use in potted and through-panel applications. These products are developed for 100 % sealing in completely enclosed units..

WGK variants are used, for example, as device connections for EMC filters or fully insulated transformers.

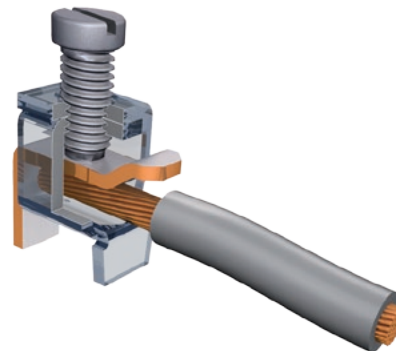


### Clamping yoke screw connection

The clamping yoke connection is a proven connection in use around the world today.

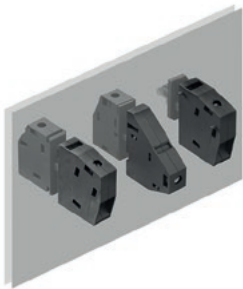
Steel clamping yokes made using a stamping and bending process guarantee a vibration proof clamp connection. When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening.

As the screw thread is on an inclined plane, the force is amplified and a very high clamping force is achieved. Weidmüller uses hardened steel with optimised corrosion protection for stability and safety in addition to copper alloys in the contact area for good electrical conductivity.



## Feed-through terminals for devices WGK series – connection up to 95 mm<sup>2</sup>

max. clamping range: 25 mm<sup>2</sup>



The high-current feed-through terminals of the WGK series provide a universal solution for feeding currents of different magnitude through the enclosure wall.

Various types of connection on the inside, such as cable lug connections which can be encapsulated (WGK ...VP) and maintenance-free clamping yoke screw connections (WGK...) with vertical and horizontal wire insertion provide the optimal connection for any installation situation.

The different peg types allow for a simple and quick assembly of multi-pole blocks.

### Product data

IEC: 500 V / 76 A / 0.5 - 25 mm<sup>2</sup>  
UL: 600 V / 85 A / AWG 20 - 4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

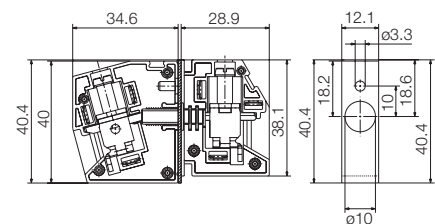
#### Note:

- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 2.5 mm = 800 V; metal walls: 2.5 - 4 mm = 690 V; metal walls: 4 - 6 mm = 500 V

### WGK 16



#### Dimensioned drawing



### Technical data

#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	0.5...25
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>
Stranded H07 V-R	mm <sup>2</sup>	10...25
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16
Flexible with ferrule	mm <sup>2</sup>	0.5...16
Ferrule with plastic collar		
Stripping length	mm	16
Screwdriver blade	mm	1.0 x 5.5
According to norm		
Tightening torque range	Nm	2...2.3
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>
At ambient temperature	20°C	40°C
For conductor cross-section	mm <sup>2</sup>	16
Overvoltage category		III III II
Pollution severity		3 2 2
<b>Rated voltage</b>		<b>500</b>
Rated impulse voltage		6

UL / CUL (Use Group)	B	C	D
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>85</b>	<b>85</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-4</b>	
CSA (Use Group)	B	C	D
Rated voltage	V	600	600
Rated current	A	85	85
AWG conductor	AWG	20-4	

#### General data

Type of insulation material	Wemid (PA)
UL 94 flammability rating	V-0
Contact base material	E-Cu
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate	Order No.
DP WGK 16 BK BX	1250580000
DP WGK 16 GY BX	1936700000
Screwdriver	Order No.
SDIS 1.0X5.5X125	9008410000
Identification systems	Order No.
DEK 5/5 MC NE WS	1609801044
DEK 5/6 MC NE WS	1609820000
DEK 5/8 MC NE WS	1856740000

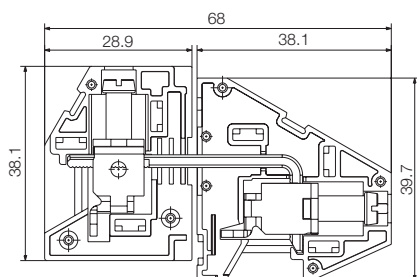
### Ordering data

Type	Qty.	Order No.	
		With lock pins	No lock pins
WGK 16/Z BK BX	50	2440600000	
WGK 16/Z GN/YE BX	50	2440570000	
WGK 16/Z GY BX	50	2440580000	
WGK 16 BK BX	50		2440590000
WGK 16 GN/YE BX	50		2439600000
WGK 16 GY BX	50		2440560000

## WGKV 16



Dimensioned drawing



### Ordering data

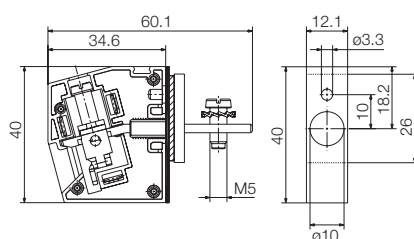
Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGKV 16/Z BK BX	50	2440800000			
WGKV 16/Z GN/YE BX	50	2440720000			
WGKV 16/Z GY BX	50	2440730000			
WGKV 16 BK BX	50		2440790000		
WGKV 16 GN/YE BX	50		2440740000		
WGKV 16 GY BX	50		2440750000		

For the rated voltage of plastic and metal walls, see the "WGK" notes

## WGK 16 VP



Dimensioned drawing



### Ordering data

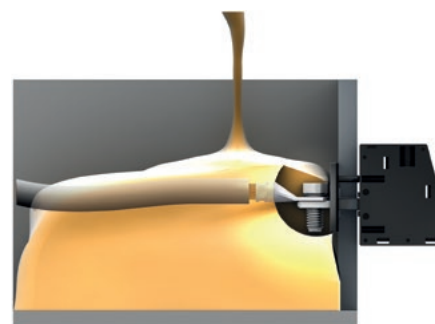
Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGK 16 VP/Z BK BX	50	2440710000			
WGK 16 VP/Z GN/YE BX	50	2440630000			
WGK 16 VP/Z GY BX	50	2440640000			
WGK 16 VP BK BX	50		2440660000		
WGK 16 VP GN/YE BX	50		2440610000		
WGK 16 VP GY BX	50		2440620000		

For the rated voltage of plastic and metal walls, see the "WGK" notes

## Variants

The WGK...VP, VWGK 4 and VWGK 6 variants of the WGK series, with an insulating housing and clamping yoke connection on the outside, are specially enhanced for use in potted and through-panel applications. These products are developed for 100 % sealing in completely enclosed units..

WGK variants are used, for example, as device connections for EMC filters or fully insulated transformers.

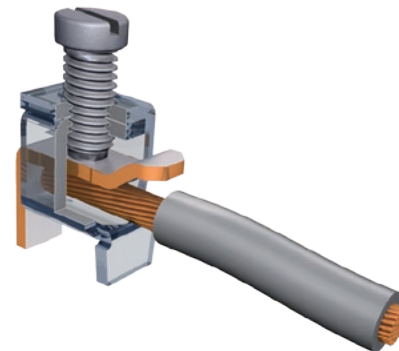


### Clamping yoke screw connection

The clamping yoke connection is a proven connection in use around the world today.

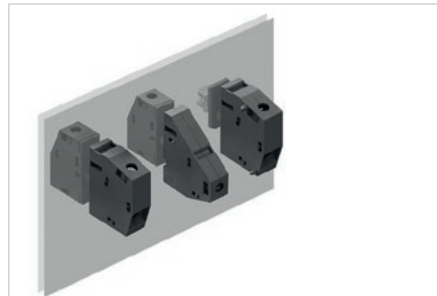
Steel clamping yokes made using a stamping and bending process guarantee a vibration proof clamp connection. When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening.

As the screw thread is on an inclined plane, the force is amplified and a very high clamping force is achieved. Weidmüller uses hardened steel with optimised corrosion protection for stability and safety in addition to copper alloys in the contact area for good electrical conductivity.



## Feed-through terminals for devices WGK series – connection up to 95 mm<sup>2</sup>

max. clamping range: 35 mm<sup>2</sup>



The high-current feed-through terminals of the WGK series provide a universal solution for feeding currents of different magnitude through the enclosure wall.

Various types of connection on the inside, such as cable lug connections which can be encapsulated (WGK ...VP) and maintenance-free clamping yoke screw connections (WGK...) with vertical and horizontal wire insertion provide the optimal connection for any installation situation.

The different peg types allow for a simple and quick assembly of multi-pole blocks.

### Product data

IEC: 690 V / 101 A / 6 - 35 mm<sup>2</sup>  
UL: 600 V / 100 A / AWG 10 - 3



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

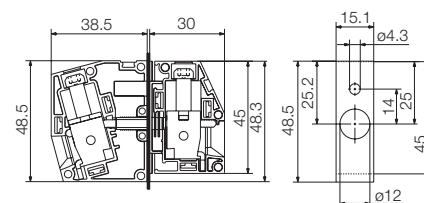
#### Note:

- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 4 mm = 800 V; metal walls: 4 - 6 mm = 690 V
- WGKV: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 4 mm = 800 V; metal walls: 4 - 6 mm = 690 V
- WGK...VP: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 2.5 mm = 800 V; metal walls: 2.5 - 4 mm = 690 V; metal walls: 4 - 6 mm = 500 V
- Wire-end ferrules are mandatory for stranded wires with more than 19 strands.

### WGK 25



#### Dimensioned drawing



### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	4...35	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>6...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	10...35	
Flexible H05(07) V-K	mm <sup>2</sup>	6...16	
Flexible with ferrule	mm <sup>2</sup>	4...25	
Ferrule with plastic collar			
Stripping length	mm	18	
Screwdriver blade	mm	1.2 x 6.5	
According to norm			
Tightening torque range	Nm	4...4.5	
<b>Rated current, max.</b>	<b>A</b>	<b>101</b>	
At ambient temperature	20°C	40°C	
For conductor cross-section	mm <sup>2</sup>	25	
Overvoltage category		III III II	
Pollution severity		3 2 2	
<b>Rated voltage</b>		<b>690</b>	
Rated impulse voltage		6	
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>600 600</b>	
<b>Rated current</b>	<b>A</b>	<b>100 100</b>	
<b>AWG conductor</b>	<b>AWG</b>	<b>10-3</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	600 600	
Rated current	A	100 100	
AWG conductor	AWG	10-3	
<b>General data</b>			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate	Order No.
DP WGK 25 BK BX	1250590000
DP WGK 25 GY BX	1936710000
DP WGKV 25	1936690000
Screwdriver	
SDIS 1.2X6.5X150	9008420000
Identification systems	
DEK 5/5 MC NE WS	1609801044
DEK 5/6 MC NE WS	1609820000
DEK 5/8 MC NE WS	1856740000

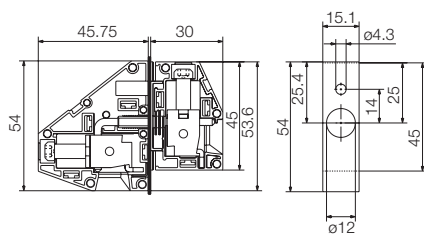
### Ordering data

Type	Qty.	Order No.	
		With lock pins	No lock pins
WGK 25/Z BK BX	50	2444680000	
WGK 25/Z GN/YE BX	50	2444640000	
WGK 25/Z GY BX	50	2444300000	
WGK 25 BK BX	50		2444670000
WGK 25 GN/YE BX	50		2444650000
WGK 25 GY BX	50		2444660000

### WGKV 25



Dimensioned drawing



### Ordering data

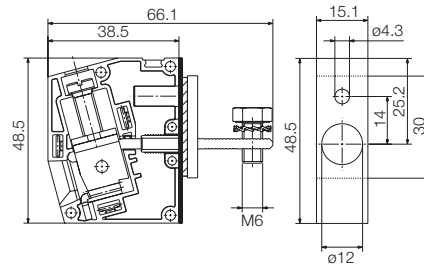
Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGKV 25/Z BK BX	25	2444870000			
WGKV 25/Z GN/YE BX	25	2444810000			
WGKV 25/Z GY BX	25	2444860000			
WGKV 25 BK BX	25		2444840000		
WGKV 25 GN/YE BX	25		2444830000		
WGKV 25 GY BX	25		2444820000		

Rated voltage for plastic and metal walls such as WGK

### WGK 25 VP



Dimensioned drawing



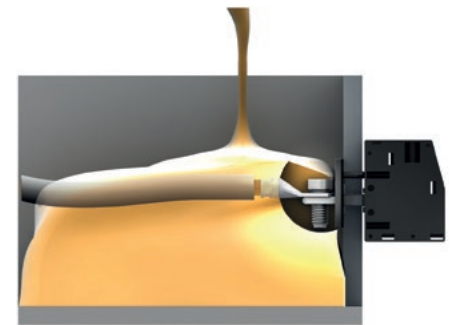
### Ordering data

Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGK 25 VP/Z BK BX	50	2444790000			
WGK 25 VP/Z GN/YE BX	50	2444720000			
WGK 25 VP/Z GY BX	50	2444730000			
WGK 25 VP BK BX	50		2444800000		
WGK 25 VP GN/YE BX	50		2444700000		
WGK 25 VP GY BX	50		2444710000		

### Variants

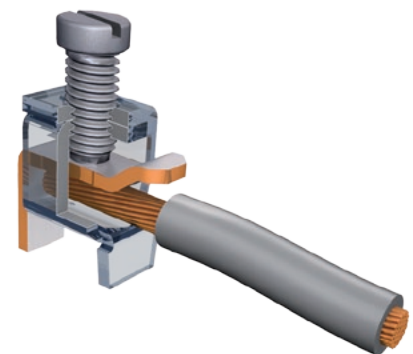
The WGK...VP, VWGK 4 and VWGK 6 variants of the WGK series, with an insulating housing and clamping yoke connection on the outside, are specially enhanced for use in potted and through-panel applications. These products are developed for 100 % sealing in completely enclosed units..

WGK variants are used, for example, as device connections for EMC filters or fully insulated transformers.



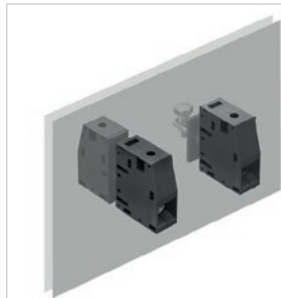
### Clamping yoke screw connection

The clamping yoke connection is a proven connection in use around the world today. Steel clamping yokes made using a stamping and bending process guarantee a vibration proof clamp connection. When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening. As the screw thread is on an inclined plane, the force is amplified and a very high clamping force is achieved. Weidmüller uses hardened steel with optimised corrosion protection for stability and safety in addition to copper alloys in the contact area for good electrical conductivity.



## Feed-through terminals for devices WGK series – connection up to 95 mm<sup>2</sup>

max. clamping range: 50 mm<sup>2</sup>



The high-current feed-through terminals of the WGK series provide a universal solution for feeding currents of different magnitude through the enclosure wall.

Various types of connection on the inside, such as cable lug connections which can be encapsulated (WGK ...VP) and maintenance-free clamping yoke screw connections (WGK...) provide the optimal connection for any installation situation.

The different peg types allow for a simple and quick assembly of multi-pole blocks.

### Product data

IEC: 690 V / 150 A / 16 - 50 mm<sup>2</sup>  
UL: 600 V / 150 A / AWG 6 - 1/0



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

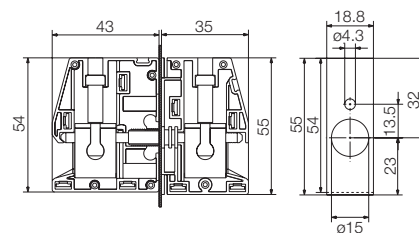
#### Note:

- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 2.5 mm = 800 V; metal walls: 2.5 - 6 mm = 690 V
- Wire-end ferrules are mandatory for stranded wires with more than 19 strands.

### WGK 50



#### Dimensioned drawing



### Technical data

#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	10...50
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>16...50</b>
Stranded H07 V-R	mm <sup>2</sup>	16...50
Flexible H05(07) V-K	mm <sup>2</sup>	16...50
Flexible with ferrule	mm <sup>2</sup>	10...50
Ferrule with plastic collar		
Stripping length	mm	24
Screwdriver blade	mm	1.2 x 6.5
According to norm		
Tightening torque range	Nm	4...5.5
<b>Rated current, max.</b>	<b>A</b>	<b>150</b>
At ambient temperature	20°C	40°C
For conductor cross-section	mm <sup>2</sup>	50
Overtoltage category		III III II
Pollution severity		3 2 2
<b>Rated voltage</b>		<b>690</b>
Rated impulse voltage		6

#### UL / CUL (Use Group)

	B	C	D
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>150</b>	<b>150</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>6-1/0</b>	
<b>CSA (Use Group)</b>	<b>B</b>	<b>C</b>	<b>D</b>
Rated voltage	V	600	600
Rated current	A	150	150
AWG conductor	AWG	6-1/0	

#### General data

Type of insulation material	Wemid (PA)
UL 94 flammability rating	V-0
Contact base material	E-Cu
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate	Order No.
DP WGK 50 BK BX	<b>1250610000</b>
DP WGK 50	<b>1937030000</b>
Screwdriver	Order No.
SDIS 1.2X6.5X150	<b>9008420000</b>
Identification systems	Order No.
DEK 5/5 MC NE WS	<b>1609801044</b>
DEK 5/6 MC NE WS	<b>1609820000</b>
DEK 5/8 MC NE WS	<b>1856740000</b>

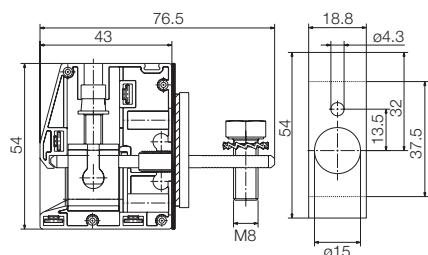
### Ordering data

Type	Qty.	Order No.	
		With lock pins	No lock pins
WGK 50/Z BK BX	10	<b>2427690000</b>	
WGK 50/Z GN/YE BX	10	<b>2427810000</b>	
WGK 50/Z GY BX	10	<b>2427650000</b>	
WGK 50 BK BX	10		<b>2427680000</b>
WGK 50 GN/YE BX	10		<b>2427660000</b>
WGK 50 GY BX	10		<b>2427640000</b>

## WGK 50 VP



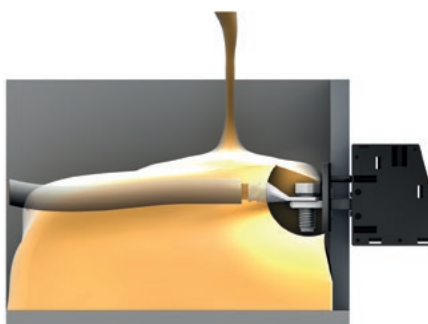
Dimensioned drawing



## Variants

The WGK...VP, VWGK 4 and VWGK 6 variants of the WGK series, with an insulating housing and clamping yoke connection on the outside, are specially enhanced for use in potted and through-panel applications. These products are developed for 100 % sealing in completely enclosed units..

WGK variants are used, for example, as device connections for EMC filters or fully insulated transformers.



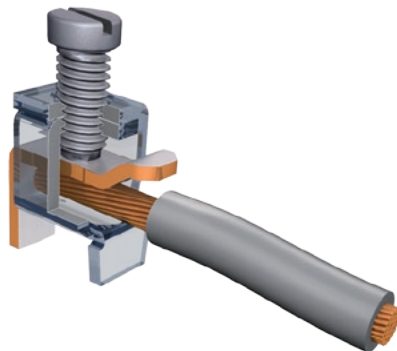
## Ordering data

Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGK 50 VP/Z BK BX	10	2428450000			
WGK 50 VP/Z GY BX	10	2428300000			
WGK 50 VP/Z GN/YE BX	10	2428290000			
WGK 50 VP BK BX	10		2428440000		
WGK 50 VP GN/YE BX	10		2428270000		
WGK 50 VP GY BX	10		2428280000		

## Clamping yoke screw connection

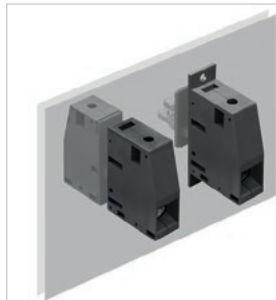
The clamping yoke connection is a proven connection in use around the world today. Steel clamping yokes made using a stamping and bending process guarantee a vibration proof clamp connection. When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening. As the screw thread is on an inclined plane, the force is amplified and a very high clamping force is achieved. Weidmüller uses hardened steel with optimised corrosion protection for stability and safety in addition to copper alloys in the contact area for good electrical conductivity.

For the rated voltage of plastic and metal walls, see the "WGK" notes



## Feed-through terminals for devices WGK series – connection up to 95 mm<sup>2</sup>

max. clamping range: 95 mm<sup>2</sup>



The high-current feed-through terminals of the WGK series provide a universal solution for feeding currents of different magnitude through the enclosure wall.

Various types of connection on the inside, such as cable lug connections which can be encapsulated (WGK ...VP) and maintenance-free clamping yoke screw connections (WGK...) provide the optimal connection for any installation situation.

The different peg types allow for a simple and quick assembly of multi-pole blocks.

### Product data

IEC: 1000 V / 232 A / 35 - 95 mm<sup>2</sup>  
UL: 600 V / 255 A / AWG 4 - kcmil 250



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

#### Note:

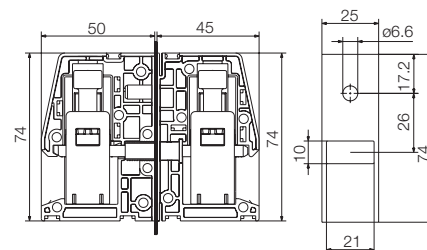
- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1-6 mm = 1000 V; metal walls: < 1 mm = 1000 V; metal walls: 1-3.5 mm = 800 V; metal walls: 3.5-5.5 mm = 690 V
- Wire-end ferrules are mandatory for stranded wires with more than 19 strands.

### WGK 95

#### Screw connection



#### Dimensioned drawing



### Technical data

#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm <sup>2</sup>	35...95
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>35...95</b>
Stranded H07 V-R	mm <sup>2</sup>	35...95
Flexible H05(07) V-K	mm <sup>2</sup>	35...95
Flexible with ferrule	mm <sup>2</sup>	35...95
Ferrule with plastic collar		
Stripping length	mm	27
Screwdriver blade	mm	
According to norm		
Tightening torque range	Nm	15...20
<b>Rated current, max.</b>	<b>A</b>	<b>232</b>
At ambient temperature	20°C	40°C
For conductor cross-section	mm <sup>2</sup>	95
Overtoltage category		III III II
Pollution severity		3 2 2
<b>Rated voltage</b>		<b>1000</b>
Rated impulse voltage		8

<b>UL / CUL (Use Group)</b>	<b>B C D</b>
<b>Rated voltage</b>	<b>V 600 600</b>
<b>Rated current</b>	<b>A 255 255</b>
<b>AWG conductor</b>	<b>AWG 4-kcmil 250</b>
<b>CSA (Use Group)</b>	<b>B C D</b>

Rated voltage	V	600	600
Rated current	A	255	255
AWG conductor	AWG	4-kcmil	250
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	600	600
Rated current	A	255	255
AWG conductor	AWG	4-kcmil	250

<b>General data</b>	
Type of insulation material	Wemid (PA)
UL 94 flammability rating	V-0
Contact base material	E-Cu
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	
Solder eyelet Ø tolerance	mm

### Accessories

Note: Refer to the Accessories chapter for additional accessories.

<b>Distance plate</b>	<b>Order No.</b>
DP WGK 95 BK BX	1250620000
DP WGK 95 GY BX	1937020000
<b>Identification systems</b>	
DEK 5/5 MC NE WS	1609801044
DEK 5/6 MC NE WS	1609820000
DEK 5/8 MC NE WS	1856740000

### Ordering data

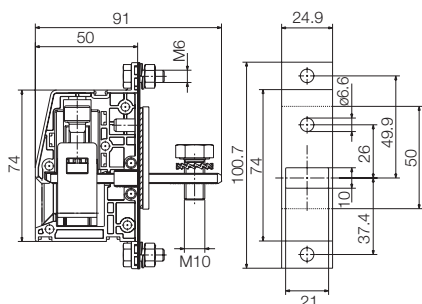
		<b>With lock pins</b>	<b>No lock pins</b>
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>	<b>Order No.</b>
WGK 95/Z BK BX	10	1250690000	
WGK 95/Z GN/YE BX	10	1937390000	
WGK 95/Z GY BX	10	1937400000	
WGK 95 BK BX	10		1250680000
WGK 95 GN/YE BX	10		1937370000
WGK 95 GY BX	10		1937380000

## WGK 95 F VP

### Cable lug connection



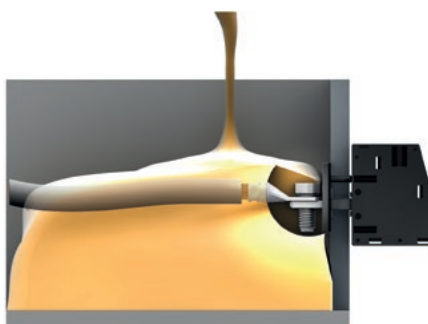
### Dimensioned drawing



### Variants

The WGK...VP, VWGK 4 and VWGK 6 variants of the WGK series, with an insulating housing and clamping yoke connection on the outside, are specially enhanced for use in potted and through-panel applications. These products are developed for 100 % sealing in completely enclosed units..

WGK variants are used, for example, as device connections for EMC filters or fully insulated transformers.



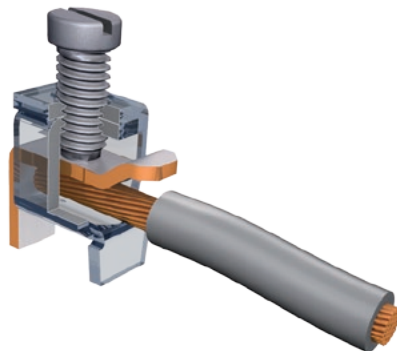
### Ordering data

Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGK 95F VP/Z BK BX	10	1250670000			
WGK 95F VP/Z GN/YE BX	10	1937360000			
WGK 95F VP/Z GY BX	10	1937140000			
WGK 95F VP BK BX	10		1250660000		
WGK 95F VP GN/YE BX	10		1937120000		
WGK 95F VP GY BX	10		1937130000		

### Clamping yoke screw connection

The clamping yoke connection is a proven connection in use around the world today. Steel clamping yokes made using a stamping and bending process guarantee a vibration proof clamp connection. When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening. As the screw thread is on an inclined plane, the force is amplified and a very high clamping force is achieved. Weidmüller uses hardened steel with optimised corrosion protection for stability and safety in addition to copper alloys in the contact area for good electrical conductivity.

For the rated voltage of plastic and metal walls, see the "WGK" notes





# OMNIMATE® Power Accessories

<b>OMNIMATE® Power Accessories</b>	Strain relief	M.2
	Shielding	M.3
	Coding elements / Anti-twist mechanism / Test plug	M.4
	Screwdrivers	M.5
	Identification systems	M.6

Strain relief

**BV/SV 7.62HP/02 ZE GR**

Strain relief



**BV/SV 7.62HP/04 ZE GR**

Strain relief



**Ordering data**

Colour		Grey
Type	Qty.	Order No.
BV/SV 7.62HP/02 ZE GR		<b>1937550000</b>

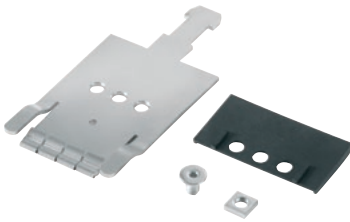
**Ordering data**

Colour		Grey
Type	Qty.	Order No.
BV/SV 7.62HP/04 ZE GR		<b>1937560000</b>



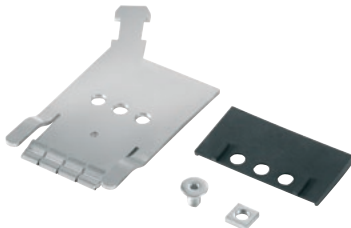
**BVF 7.62HP SH180 4-6 KIT**

Shield support



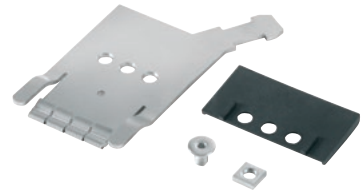
**BVF 7.62HP SH150 4-6 KIT**

Shield support



**BVF 7.62HP SH150 4-6 KIT**

Shield support



**Ordering data**

Colour	Grey	
Type	Qty.	Order No.
BVF 7.62HP SH180 4-6 KIT		<b>1118470000</b>

**Ordering data**

Colour	Grey	
Type	Qty.	Order No.
BVF 7.62HP SH150 4-6 KIT		<b>1118480000</b>

**Ordering data**

Colour	Grey	
Type	Qty.	Order No.
BVF 7.62HP SH210 4-6 KIT		<b>1118490000</b>



**BV/SV 7.62 KO**

Coding element



**BV/SV 7.62 KO**

Anti-twist mechanism



**PS 2.0 MC**

Test plug

Ø 2.0 mm



- For conductors up to 0.75 mm<sup>2</sup> (AWG 18).
- Gold-plated lantern-type contact.
- Conductor must be soldered to contact in test plug.

**Ordering data**

Typ	Qty.	Order No.
BV/SV 7.62HP KO	100	1937590000

**Ordering data**

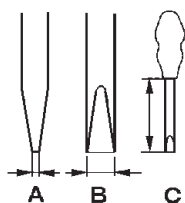
Type	Qty.	Order No.
SV 7.62 VDS	1	1853940000

**Ordering data**

Typ	Wire cross-sections	Qty.	Order No.
PS 2.0 MC	≤ 0,75 mm <sup>2</sup>	20	0310000000

## SDI

## VDE-insulated slotted screwdriver



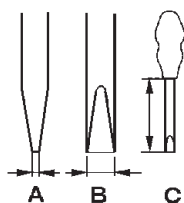
## VDE-insulated slotted screwdriver, SDI

- DIN 7437, ISO 2380/2
- Output acc. to DIN 5264, ISO 2380/1
- SoftFinish® handle



## SD

## Slotted screwdriver with round blade



## Slotted screwdriver with round blade, SD

- DIN 5265, ISO 2380/2
- Output acc. to DIN 5264, ISO 2380/1
- ChromTop tip
- SoftFinish® handle



## SDK PH/PZ

## Crosshead screwdriver



## Crosshead screwdriver PH (Philips)

- SDK PH DIN 5262, ISO 8764/2-PH
- Output acc. to ISO 8764-PH
- ChromTop tip
- SoftFinish® grip



## Crosshead screwdriver PZ (Pozidrive)

- SDK PZ DIN 5262, ISO 8764/2-PZ
- Output acc. to ISO 8764-PZ
- ChromTop tip
- SoftFinish® grip



## Ordering data

Type	Dims. (mm)	A	B	C	Order No.
SDI	0,4	2,5	75		9008370000
SDI	0,5	3,0	100		9008380000
SDI	0,6	3,5	100		9008390000
SDI	0,8	4,0	100		9008400000
SDI	1,0	4,5	125		9008910000
SDI	1,0	5,5	125		9008410000
SDI	1,2	6,5	150		9008420000
SDI	1,6	8,0	175		9008430000

## Ordering data

Typ	Dims. (mm)	A	B	C	Order No.
SD	0,4	2,5	75		9009030000
SD	0,5	3,0	80		9008320000
SD	0,6	3,5	100		9008330000
SD	0,8	4,0	100		9008340000
SD	0,8	4,5	125		9009020000
SD	1,0	5,5	150		9008350000
SD	1,2	6,5	150		9009010000

## Ordering data PH

Type	Dims. (mm)	A	B	C	Order No.
SDK PH0	0			60	9008470000
SDK PH1	1			80	9008480000
SDK PH2	2			100	9008490000
SDK PH3	3			150	9008500000

## Ordering data PZ

Type	Dims. (mm)	A	B	C	Order No.
SDK PZ1	1			80	9008530000
SDK PZ2	2			100	9008540000
SDK PZ3	3			150	9008550000

**KSW 4 / KSW 2.5**

**Marking strips**



KSW marking strips are suitable for labelling multi-pole PCB terminals and connectors.

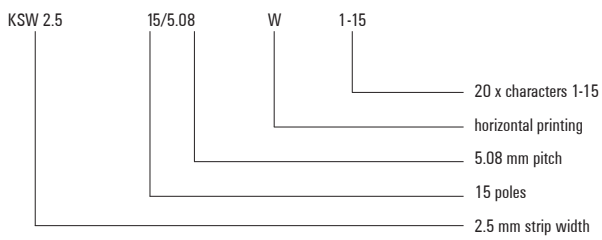
The white, self-adhesive strips are made from a non-PVC, environmentally friendly material. These marking strips provide individual printing, i.e. are suitable for every pitch. Available in two widths: 2.5 and 4.0 mm.

**Technical data**

Material data	
Material	polyester with white surface
Adhesive	acrylic base
Temperature range	-40 °C to +150 °C
Min. bonding temperature	+4 °C
Flammability	self-extinguishing after 15 s

No. of marking strips per sheet
up to 20 poles = 20 strips per sheet
* more than 20 poles = 15 strips per sheet

Ordering example
Order No. 1630060001



**Printed strips**

KSW 4		Pitch
Char.	7.62 mm	
1-8	1700680001	
1-12	1652270001	
1-16	-	
1-24*	-	

KSW 2.5		Pitch
Char.	7.62 mm	
1-8	-	
1-12	-	
1-16	-	
1-24*	-	

**Blank strips**

	Length of strip		
	50 mm	100 mm	150 mm
KSW 4	1629970000	1629990000	1630010000
KSW 2.5	1629960000	1629980000	1630000000

**Custom printing to specification**

	Length of strip		
	50 mm	100 mm	150 mm
KSW 4	1629910000	1629930000	1629950000
KSW 2.5	1629900000	1629920000	1629940000

**Direct printing**



We can also print directly on your plug and socket connectors to your specification. Please ask for details.



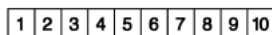
DEK 5

Dekafix system

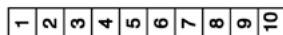


Dekafix is supplied in packs of 10 cards with 50 individual tags per card.

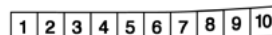
Dekafix tags are white with black printing as standard.



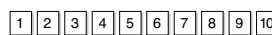
Horizontal printing



Vertical printing



Mounted as strip



Mounted singly

Technical data

Material data	
Material	polyamide
Temperature range	- 40 °C to +100 °C
Flammability rating	UL 94 V-2
Contents	silicone-free, halogens below minimum detectable level self-extinguishing after 15 s
Mounting	as strips or singly depending on type of carrier
Printing	black printing, standard or to customer specification
Smudge resistance	to DIN IEC 50
Custom printing	according to list or data exchange by diskette or modem
Colour	to international colour code
Max. characters DEK 5	3 horizontal/3 vertical up to 2.5 mm font size

Custom printing to specification

Colour	Order No.	Colour	Order No.	Colour	Order No.	Qty. 500
(Note: please state colour when ordering.)						
○ white	1609810000	● yellow	1609810000	● violet	1609810000	
● black	1609810000	● green	1609810000	● grey	1609810000	
● red	1609810000	● blue	1609810000	● orange	1609810000	

Blank

Colour	Order No.	Colour	Order No.	Colour	Order No.	Qty. 500
● black	1457550000	● yellow	1609801687	● violet	1249860000	
● red	1609801686	● green	1609801688	● grey	1609801691	
● orange	1238340000	● blue	1609801693	○ white	0473360000	

Printed tags

(horizontal only)	Character	Order No.	Character	Horizontal	Vertical										
Tags with individual letters	A	0522761021	50 consecutive numbers	1 ... 50	0473460001										
	B	0522761022	<table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr></table>	1	2	3	4	5	6	7	8	9	10	51 ... 100	0473460051
1	2	3	4	5	6	7	8	9	10						
	C	0522761023	<table border="1"><tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr></table>	11	12	13	14	15	16	17	18	19	20	to	The last 3 digits of the order No. indicate the first character.
11	12	13	14	15	16	17	18	19	20						
	D	0522761024		951 ... 999	0473460951										
	E	0522761025	10 consecutive numbers	1 ... 10	0523060001										
	F	0522761026	<table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr></table>	1	2	3	4	5	6	7	8	9	10	11 ... 20	0523060011
1	2	3	4	5	6	7	8	9	10						
	G	0522761027	<table border="1"><tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr></table>	11	12	13	14	15	16	17	18	19	20	to	The last 3 digits of the order No. indicate the first character.
11	12	13	14	15	16	17	18	19	20						
	H	0522761028		91 ... 100	0522660091										
	I	0522761029	Individual numbers	1	0522660001										
	J	0522761030	<table border="1"><tr><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr></table>	1	1	1	1	1	1	1	1	1	1	2	0522660002
1	1	1	1	1	1	1	1	1	1						
	K	0522761031		bis	The last 3 digits of the order No. indicate the first character.										
	L	0522761032		200	0522660200										
	M	0522761033	Various symbols	L1, L2, L3, N, PE	0354361187										
	N	0522761034	<table border="1"><tr><td>L1</td><td>L2</td><td>L3</td><td>N</td><td>PE</td><td>L1</td><td>L2</td><td>L3</td><td>N</td><td>PE</td></tr></table>	L1	L2	L3	N	PE	L1	L2	L3	N	PE		
L1	L2	L3	N	PE	L1	L2	L3	N	PE						
	O	0522761035													
	P	0522761036	Single symbols	plus +	0576261198										
	Q	0522761037	<table border="1"><tr><td>+</td><td>+</td><td>+</td><td>+</td><td>+</td><td>+</td><td>+</td><td>+</td><td>+</td><td>+</td></tr></table>	+	+	+	+	+	+	+	+	+	+	minus -	0576261199
+	+	+	+	+	+	+	+	+	+						
	R	0522761038	<table border="1"><tr><td>L1</td><td>L1</td><td>L1</td><td>L1</td><td>L1</td><td>L1</td><td>L1</td><td>L1</td><td>L1</td><td>L1</td></tr></table>	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1	PE	-
L1	L1	L1	L1	L1	L1	L1	L1	L1	L1						
	S	0522761039		L1	0522361075										
	T	0522761040		L2	0522361076										
	U	0522761041		L3	0522361077										
	V	0522761042		earth	0576261202										
	W	0522761043		earth in circle	0576261203										
	X	0522761044		AC ~	0576261215										
	Y	0522761045													
	Z	0522761046													
			Individual card (state characters and orientation when ordering)	1609810000	1609810000										
			Coloured blank Dekafix (state colour when ordering)	1609801044	1609801044										
			Coloured printed Dekafix = custom printing (state colour and characters when ordering)	0490790000	0490790000										