

# New device connection technology 5.00 and 5.08 pitch

Product Information



# Electrical Connectivity

## Device / PCB

**SL-SMT 5.0x**

Reflow compatible pin headers

4

**BLF and BLDF 5.0x**

PCB-connectors with PUSH IN connection technology

38

**BLZP 5.0x**

Pluggable, universal screw connection

54

# SL-SMT 5.0x and SL-SMarT 5.0x

## The integrative element to get fully connected to the reflow process

### “Designed for SMT/THR-production”

Innovative, application-tailored pin headers, made of high temperature-insulating material LCP (Liquid Cristal Polymer). That allows a seamlessly integration of connection systems into the automated Reflow-production process.

The wide range of reflow-compatible components benefits through a significant higher production efficiency. That means a reduction of manufacturing costs by 30 % – while maintaining a higher process reliability as well as still keeping the high quality level.



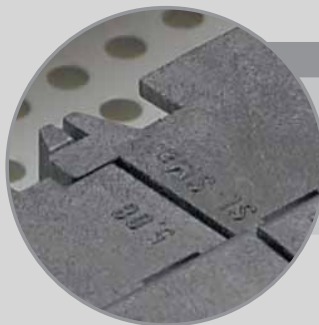
#### Design-oriented integration

Adaptable connection systems means, that the color of the connectors follows the design of the devices – and not the other way around. Only Weidmüller offers the choice between orange, black, grey or green color with the reflow-compatible high temperature material LCP (Liquid Cristal Polymer)



#### Budget-oriented fastening

Additional benefits and less costs: The patented solder flange reduces 3 production steps to 1 and protects the soldered connections from permanent mechanical stress. No manual assembly, no tightening of the fixing screw - the fastening to the PCB takes automatically place during the soldering process.



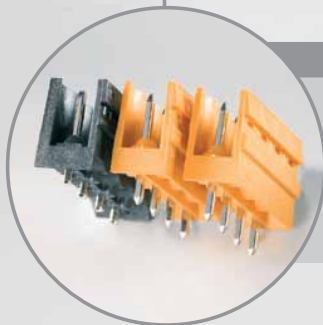
#### SL-SMarT: automation-oriented design

Every needed pole number – realized by only 2 articles. The patented concept of self-setting 2- and 3- pole pin header modules reduces the diversity and the costs. The processability without pick and place pad increases the process reliability and efficiency.



**Process-oriented delivery**

The smart tape concept was designed for the different pole numbers and product sizes. It reduces the needed feeder space at the pick & place machine and guarantees a safe fixation of the pin headers.



**Application-oriented specification**

The 1.5 mm short solder pin enables a dual side assembly of the PCB and reduces the lift up distance of the pick & place machine. Alternative: 3.2 mm pins for a PCB thickness of more than 1.6 mm. The octagonal, planar pin geometry allows a reliable AOI (Automatic Optical Inspection).

# PCB connection technology for your SMT process...



... is Weidmüller's speciality:

## Reflow-compatible PCB products

Our PCB pin headers and terminals are:

- Made of plastic with high temperature stability
- In an innovative component design
- Compatible with the SMT process

For you, SMT/THR PCB products from Weidmüller mean:

- Increased production efficiency
- A reduction of up to 30% on your manufacturing costs
- Optimisation of your workflow using automatic double-sided SMT PCB assembly
- Greater mechanical stability than SMD components with a gull-wing connection

SMT/THR PCB products from Weidmüller are suitable for lead-free reflow processes up to 290 °C.

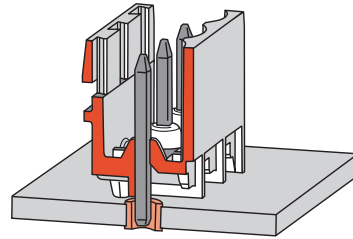
## Future compatibility that lasts

- 100% RoHS-compliant
- Halogen-free
- Recyclable



## SMT/THR... totally consistent!

THR components are made from liquid crystal polymer (LCP), a high-performance plastic.

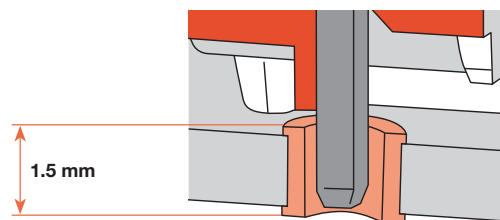


## The advantages for you:

- Maximum dimensional stability and pitch accuracy in the assembly process
- High temperature stability – in all conventional and lead-free soldering methods
- AExpansion behaviour similar to standard PCB materials
- Maximum design freedom: available with 2 to 48 poles

## SMT/THR... absolutely extraordinary!

THR components use short pins with a length of just 1.5 mm.

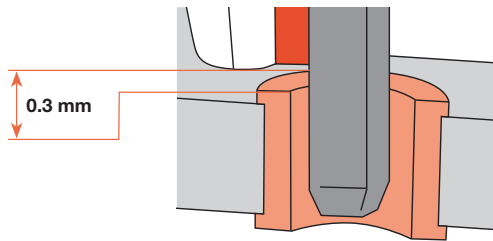


## The advantages for you:

- Double-sided assembly for PCD widths  $\geq 1.5$  mm
- Lower costs by minimising the paste volume
- Simplified paste printing process
- The soldering fluxes turn into gas without complications which, together with the perfect soldering temperature, makes the process faster

**SMT/THR... unmistakably innovative!**

THR components have integrated space for paste with a stand-off height of 0.3 mm.

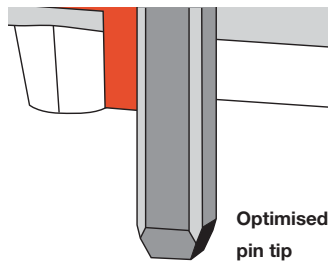


**The advantages for you:**

- Simple template design for standard layout
- Design compatible with standard pin connectors as there is no additional stand-off

**SMT/THR... clearly optimised for your application!**

THR components are fitted with octagonal pins whose tips have been optimised for processing.

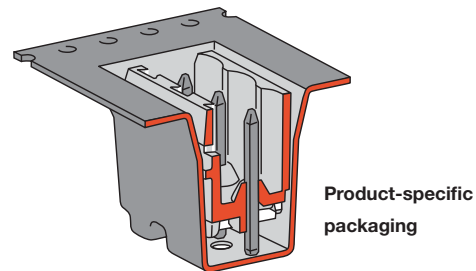


**The advantages for you:**

- Minimisation of the through-hole diameter and therefore also the paste volume
- Better visibility in vision systems thanks to large reflective surfaces
- Minimisation of the placement force needed for the pick and place machine to set the pins in the paste
- Improved stability for the soldering joint

**SMT/THR... quite simply intelligent!**

THR components come in intelligently designed packaging – suitable for various numbers of poles.



**The advantages for you:**

- Just one feeder module for different numbers of pins
- Compatible with all standard pick and place systems
- Shallow packaging
- ESD-compliant

**Impressive variety**

You can find our whole product range in the latest Weidmüller catalogues. Ask your sales engineer or take a look at our website:

**[www.weidmueller.com](http://www.weidmueller.com)**

We can also supply product sketches as 2-D and 3-D data. Have a look at:

**[www.partserver.com](http://www.partserver.com)**

Do you want to optimise your production workflow for automatic PCB assembly? Then you've come to the right place!

**[www.smt-technology.com](http://www.smt-technology.com)**

# SL-SMT 5.0x

## SL-SMT 5.08/90 SL-SMT 5.00/90



High-temperature-resistant, 90° angled, open male connector. Packed in box or tape. In tape form with 1.5 mm solder pin optimised for automatic assembly; 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

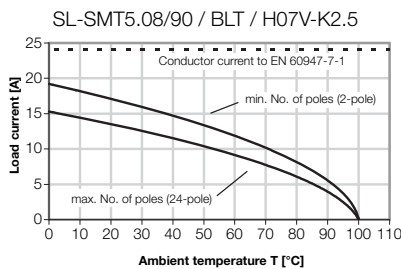
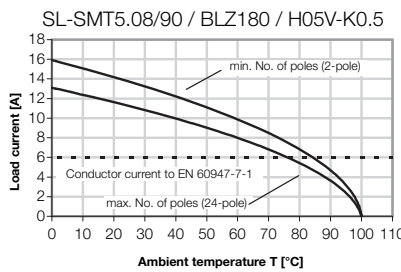
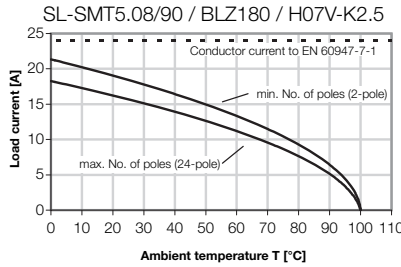
- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

### Technical data

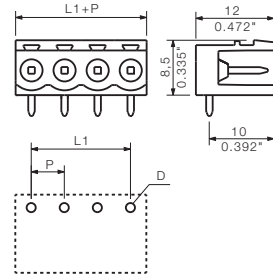
Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>		
Solid H05(07) V-U	mm <sup>2</sup>		
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>		
Flexible with ferrule	mm <sup>2</sup>		
Ferrule with plastic collar	mm <sup>2</sup>		
Stripping length	mm		
Screwdriver blade	mm		
according to norm			
Tightening torque range	Nm		
Rated current at ambient temperature			
	A	20°C	40°C
		19	16
Overvoltage category			
		III	III II
Pollution severity			
		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL 1059 rated data			
		B	C D
Nominal voltage	V	300	300
Rated current	A	15	10
AWG conductor			
CSA C22.2 rated data			
		B	C D
Rated voltage	V	300	300
Rated current	A	15	10
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Hole diameter D = 1.4+0.1mm
- Hole diameter D = 1.5+0.1mm for 9 poles
- P on drg. = 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.

### Derating curve



## SL-SMT 5.08/90 Box SL-SMT 5.00/90 Box



### Ordering data

Solder pin length	1.5 mm	3.2 mm
Colour of plastic	black	black

Pitch 5.08 mm							
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.		
2	5.08	(0.200)	100	1774762001	1779950000		
3	10.16	(0.400)	100	1774772001	1779960000		
4	15.24	(0.600)	100	1774782001	1779970000		
5	20.32	(0.800)	50	1774792001	1779980000		
6	25.40	(1.000)	50	1774802001	1779990000		
7	30.48	(1.200)	50	1774812001	1780000000		
8	35.56	(1.400)	50	1774822001	1780010000		
9	40.64	(1.600)	50	1774832001	1780020000		
10	45.72	(1.800)	50	1774842001	1780030000		
11	50.80	(2.000)	50	1774852001	1780040000		
12	55.88	(2.200)	50	1774862001	1780050000		
13	60.96	(2.400)	50	1774872001	1780060000		
14	66.04	(2.600)	50	1774882001	1780070000		
15	71.12	(2.800)	50	1774892001	1780080000		
16	76.20	(3.000)	50	1774902001	1780090000		
17	81.28	(3.200)	20	1774912001	1780100000		
18	86.36	(3.400)	20	1774922001	1780110000		
19	91.44	(3.600)	20	1774932001	1780120000		
20	96.52	(3.800)	20	1774942001	1780130000		
21	101.60	(4.000)	20	1774952001	1780140000		
22	106.68	(4.200)	20	1774962001	1780150000		
23	111.76	(4.400)	20	1774972001	1780160000		
24	116.84	(4.600)	20	1774982001	1780170000		

Pitch 5.00 mm							
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.		
2	5.00	(0.197)	100	1796930000	1839890000		
3	10.00	(0.394)	100	1796940000	1839900000		
4	15.00	(0.591)	100	1796950000	1839910000		
5	20.00	(0.787)	50	1796960000	1839920000		
6	25.00	(0.984)	50	1796970000	1839930000		
7	30.00	(1.181)	50	1796980000	1839940000		
8	35.00	(1.378)	50	1796990000	1839950000		
9	40.00	(1.575)	50	1797000000	1839960000		
10	45.00	(1.772)	50	1797010000	1839970000		
11	50.00	(1.969)	50	1797020000	1839980000		
12	55.00	(2.165)	50	1797030000	1839990000		
13	60.00	(2.362)	50	1797040000	1840000000		
14	65.00	(2.559)	50	1797050000	1840010000		
15	70.00	(2.756)	50	1797060000	1840020000		
16	75.00	(2.953)	50	1797070000	1840030000		
17	80.00	(3.150)	20		1840040000		
18	85.00	(3.346)	20		1840050000		
19	90.00	(3.543)	20		1840060000		
20	95.00	(3.740)	20		1840070000		
21	100.00	(3.937)	20		1840080000		
22	105.00	(4.134)	20		1840090000		
23	110.00	(4.331)	20		1840100000		
24	115.00	(4.528)	20		1840110000		



**SL-SMT 5.08/90 Tape**  
**SL-SMT 5.00/90 Tape**



**Accessories**

**Possible colors**  
 Additional colours on request



**Coding**  
 See chapter accessories



**Ordering data**

Solder pin length	1.5 mm
Colour of plastic	<input type="text" value="black"/>

Pitch 5.08 mm				
Poles	L1 mm	(inch)	Qty.	Order No.
2	5.08	(0.200)	350	1821160000
3	10.16	(0.400)	350	1821170000
4	15.24	(0.600)	350	1774784001
5	20.32	(0.800)	350	1774794001
6	25.40	(1.000)	350	1774804001
7	30.48	(1.200)	350	1774814001
8	35.56	(1.400)	350	1774824001

**Marking strips**  
 See chapter accessories



Pitch 5.00 mm				
Poles	L1 mm	(inch)	Qty.	Order No.
2	5.00	(0.197)	350	1797620000
3	10.00	(0.394)	350	1797630000
4	15.00	(0.591)	350	1797640000
5	20.00	(0.787)	350	1797650000
6	25.00	(0.984)	350	1797660000
7	30.00	(1.181)	350	1797670000
8	35.00	(1.378)	350	1797680000

**Compartment partition element**  
 See chapter accessories

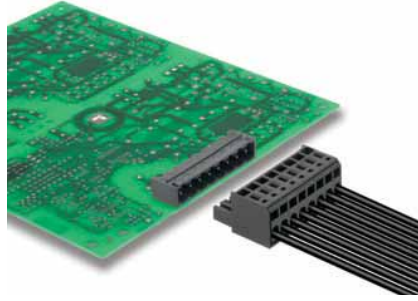


**Floodlight indicator**  
 See chapter accessories



Tape widths: 32, 44, 56, 72, 88

SL-SMT 5.08/90G  
SL-SMT 5.00/90G



High-temperature-resistant, 90° angled, closed end male connector. Packed in box or tape on reel. In tape form with 1.5 mm solder pin optimised for automatic assembly; 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

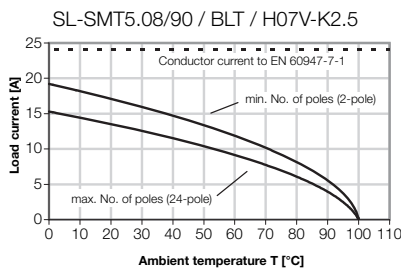
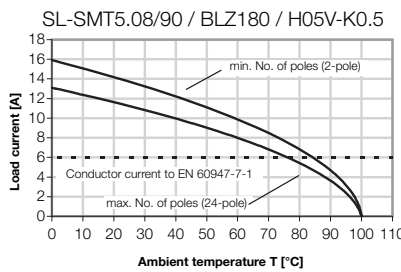
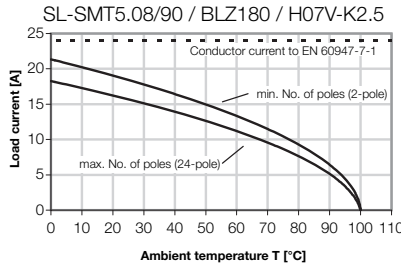
- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

Technical data

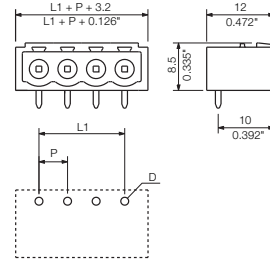
Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>		
Solid H05(07) V-U	mm <sup>2</sup>		
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>		
Flexible with ferrule	mm <sup>2</sup>		
Ferrule with plastic collar	mm <sup>2</sup>		
Stripping length	mm		
Screwdriver blade	mm		
	according to norm		
Tightening torque range	Nm		
Rated current at ambient temperature			
	A	20°C	40°C
		19	16
Overvoltage category			
		III	III II
Pollution severity			
		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL 1059 rated data			
		B	C D
Nominal voltage	V	300	300
Rated current	A	15	10
AWG conductor			
CSA C22.2 rated data			
		B	C D
Rated voltage	V	300	300
Rated current	A	15	10
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Hole diameter D = 1.4+0.1mm
- Hole diameter D = 1.5+0.1mm for 9 poles
- P on drg. = 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.

Derating curve



SL-SMT 5.08/90G Box  
SL-SMT 5.00/90G Box



Ordering data

Solder pin length	1.5 mm	3.2 mm
Colour of plastic	black	black

Pitch 5.08 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	100	1775002001	1780180000
3	10.16	(0.400)	100	1775012001	1780190000
4	15.24	(0.600)	100	1775022001	1780200000
5	20.32	(0.800)	50	1775032001	1780210000
6	25.40	(1.000)	50	1775042001	1780220000
7	30.48	(1.200)	50	1775052001	1780230000
8	35.56	(1.400)	50	1775062001	1780240000
9	40.64	(1.600)	50	1775072001	1780250000
10	45.72	(1.800)	50	1775082001	1780260000
11	50.80	(2.000)	50	1775092001	1780270000
12	55.88	(2.200)	50	1775102001	1780280000
13	60.96	(2.400)	50	1775112001	1780290000
14	66.04	(2.600)	50	1775122001	1780300000
15	71.12	(2.800)	50	1775132001	1780310000
16	76.20	(3.000)	50	1775142001	1780320000
17	81.28	(3.200)	20	1775152001	1780330000
18	86.36	(3.400)	20	1775162001	1780340000
19	91.44	(3.600)	20	1775172001	1780350000
20	96.52	(3.800)	20	1775182001	1780360000
21	101.60	(4.000)	20	1775192001	1780370000
22	106.68	(4.200)	20	1775202001	1780380000
23	111.76	(4.400)	20	1775212001	1780390000
24	116.84	(4.600)	20	1775222001	1780400000

Pitch 5.00 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.00	(0.197)	100	1797080000	1840120000
3	10.00	(0.394)	100	1797090000	1840130000
4	15.00	(0.591)	100	1797100000	1840140000
5	20.00	(0.787)	50	1797110000	1840150000
6	25.00	(0.984)	50	1797120000	1840160000
7	30.00	(1.181)	50	1797130000	1840170000
8	35.00	(1.378)	50	1797140000	1840180000
9	40.00	(1.575)	50	1797150000	1840190000
10	45.00	(1.772)	50	1797160000	1840200000
11	50.00	(1.969)	50	1797170000	1840210000
12	55.00	(2.165)	50	1797180000	1840220000
13	60.00	(2.362)	50	1797190000	1840230000
14	65.00	(2.559)	50	1797200000	1840240000
15	70.00	(2.756)	50	1797210000	1840250000
16	75.00	(2.953)	50	1797220000	1840260000
17	80.00	(3.150)	20		1840270000
18	85.00	(3.346)	20		1840280000
19	90.00	(3.543)	20		1840290000
20	95.00	(3.740)	20		1840300000
21	100.00	(3.937)	20		1840310000
22	105.00	(4.134)	20		1840320000
23	110.00	(4.331)	20		1840330000
24	115.00	(4.528)	20		1840340000

**SL-SMT 5.08/90G Tape**  
**SL-SMT 5.00/90G Tape**



**Accessories**

**Possible colors**

Additional colours on request



**Coding**

See chapter accessories



**Marking strips**

See chapter accessories



**Compartment partition element**

See chapter accessories



**Floodlight indicator**

See chapter accessories



**Ordering data**

Solder pin length	1.5 mm
Colour of plastic	black

Pitch 5.08 mm				
Poles	L1 mm	(inch)	Qty.	Order No.
2	5.08	(0.200)	350	1821140000
3	10.16	(0.400)	350	1775014001
4	15.24	(0.600)	350	1775024001
5	20.32	(0.800)	350	1775034001
6	25.40	(1.000)	350	1775044001
7	30.48	(1.200)	350	1775054001

Pitch 5.00 mm				
Poles	L1 mm	(inch)	Qty.	Order No.
2	5.00	(0.197)	350	1797690000
3	10.00	(0.394)	350	1797700000
4	15.00	(0.591)	350	1797710000
5	20.00	(0.787)	350	1797720000
6	25.00	(0.984)	350	1797730000
7	30.00	(1.181)	350	1797740000

Tape widths: 32, 44, 56, 72, 88

# SL-SMT 5.0x

## SL-SMT 5.08/90F



High-temperature-resistant, 90° angled, male connector with flange. Packed in box. 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

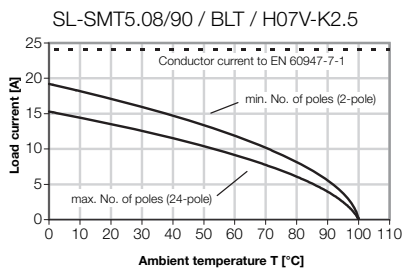
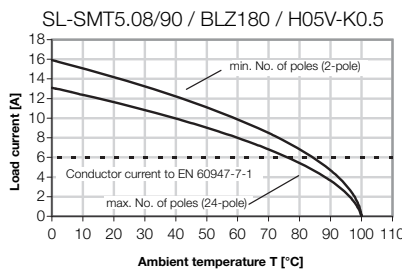
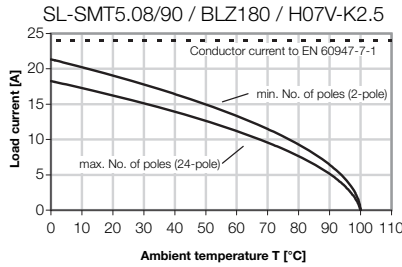
- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

### Technical data

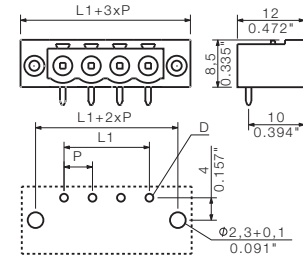
Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>		
Solid H05(07) V-U	mm <sup>2</sup>		
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>		
Flexible with ferrule	mm <sup>2</sup>		
Ferrule with plastic collar	mm <sup>2</sup>		
Stripping length	mm		
Screwdriver blade	mm		
according to norm			
Tightening torque range	Nm		
Rated current at ambient temperature			
	A	20°C	40°C
		19	16
Overvoltage category			
		III	III II
Pollution severity			
		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL 1059 rated data			
		B	C D
Nominal voltage	V	300	300
Rated current	A	15	10
AWG conductor			
CSA C22.2 rated data			
		B	C D
Rated voltage	V	300	300
Rated current	A	15	10
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	

- Information**
- Additional colours on request
  - Gold-plated contact surfaces on request
  - Rated current related to rated cross-section and min. No. of poles.
  - Hole diameter D = 1.4+0.1mm
  - Hole diameter D = 1.5+0.1mm for 9 poles
  - P on drg. = 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.

### Derating curve



## SL-SMT 5.08/90F Box



### Ordering data

Solder pin length		3.2 mm	
Colour of plastic		black	
Pitch 5.08 mm			
Poles	L1 mm (inch)	Qty.	Order No.
2	5.08 (0.200)	100	1837630000
3	10.16 (0.400)	100	1837640000
4	15.24 (0.600)	100	1837650000
5	20.32 (0.800)	50	1837660000
6	25.40 (1.000)	50	1837670000
7	30.48 (1.200)	50	1837680000
8	35.56 (1.400)	50	1837690000
9	40.64 (1.600)	50	1837700000
10	45.72 (1.800)	50	1837710000
11	50.80 (2.000)	50	1837720000
12	55.88 (2.200)	50	1837730000
13	60.96 (2.400)	50	1837740000
14	66.04 (2.600)	50	1837750000
15	71.12 (2.800)	50	1837760000
16	76.20 (3.000)	50	1837770000
17	81.28 (3.200)	20	1837780000
18	86.36 (3.400)	20	1837790000
19	91.44 (3.600)	20	1837800000
20	96.52 (3.800)	20	1837810000
21	101.60 (4.000)	20	1837820000
22	106.68 (4.200)	20	1837830000
23	111.76 (4.400)	20	1837840000
24	116.84 (4.600)	20	1837850000

## Accessories

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### Possible colors

Additional colours on request



### Coding

See chapter accessories



### Marking strips

See chapter accessories



### Compartment partition element

See chapter accessories



### Floodlight indicator

See chapter accessories



# SL-SMT 5.0x

## SL-SMT 5.08/90LF SL-SMT 5.00/90LF



High-temperature-resistant, 90° angled, male connector with solder flange. Packed in box or tape. In tape form with 1.5 mm solder pin optimised for automatic assembly; 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

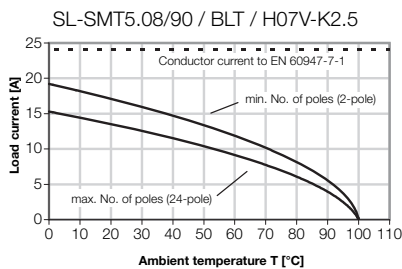
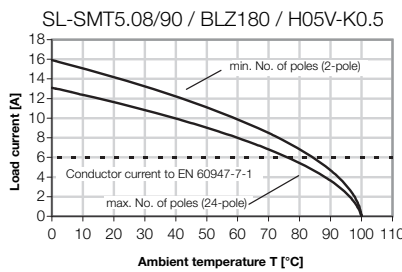
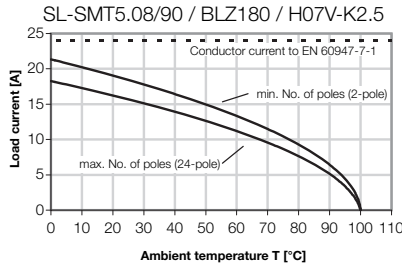
- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

### Technical data

Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>		
Solid H05(07) V-U	mm <sup>2</sup>		
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>		
Flexible with ferrule	mm <sup>2</sup>		
Ferrule with plastic collar	mm <sup>2</sup>		
Stripping length	mm		
Screwdriver blade	mm		
according to norm			
Tightening torque range	Nm		
Rated current at ambient temperature			
	A	20°C	40°C
		19	16
Overvoltage category			
		III	III II
Pollution severity			
		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL 1059 rated data			
		B	C D
Nominal voltage	V	300	300
Rated current	A	15	10
AWG conductor			
CSA C22.2 rated data			
		B	C D
Rated voltage	V	300	300
Rated current	A	15	10
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	

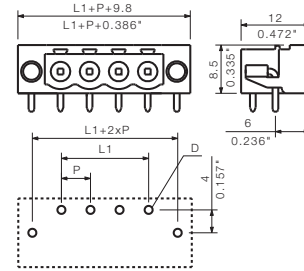
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Hole diameter D = 1.4+0.1mm
- Hole diameter D = 1.5+0.1mm for 9 poles
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

### Derating curve



## SL-SMT 5.08/90LF Box SL-SMT 5.00/90LF Box

additionally with solder flange



### Ordering data

Solder pin length		1.5 mm	3.2 mm	
Colour of plastic		black	black	
Pitch 5.08 mm				
Poles	L1 mm (inch)	Qty.	Order No.	Order No.
2	5.08 (0.200)	100	1775232001	1780410000
3	10.16 (0.400)	100	1775242001	1780420000
4	15.24 (0.600)	100	1775252001	1780430000
5	20.32 (0.800)	50	1775262001	1780440000
6	25.40 (1.000)	50	1775272001	1780450000
7	30.48 (1.200)	50	1775282001	1780460000
8	35.56 (1.400)	50	1775292001	1780470000
9	40.64 (1.600)	50	1775302001	1780480000
10	45.72 (1.800)	50	1775312001	1780490000
11	50.80 (2.000)	50	1775322001	1780500000
12	55.88 (2.200)	50	1775332001	1780510000
13	60.96 (2.400)	50	1775342001	1780520000
14	66.04 (2.600)	50	1775352001	1780530000
15	71.12 (2.800)	50	1775362001	1780540000
16	76.20 (3.000)	50	1775372001	1780550000
17	81.28 (3.200)	20	1775382001	1780560000
18	86.36 (3.400)	20	1775392001	1780570000
19	91.44 (3.600)	20	1775402001	1780580000
20	96.52 (3.800)	20	1775412001	1780590000
21	101.60 (4.000)	20	1775422001	1780600000
22	106.68 (4.200)	20	1775432001	1780610000
23	111.76 (4.400)	20	1775442001	1780620000
24	116.84 (4.600)	20	1775452001	1780630000
Pitch 5.00 mm				
Poles	L1 mm (inch)	Qty.	Order No.	Order No.
2	5.00 (0.197)	100	1797230000	1840350000
3	10.00 (0.394)	100	1797240000	1840360000
4	15.00 (0.591)	100	1797250000	1840370000
5	20.00 (0.787)	50	1797260000	1840380000
6	40.00 (1.575)	50	1797270000	1840390000
7	30.00 (1.181)	50	1797280000	1840400000
8	35.00 (1.378)	50	1797290000	1840410000
9	40.00 (1.575)	50	1797300000	1840420000
10	45.00 (1.772)	50	1797310000	1840430000
11	50.00 (1.969)	50	1797320000	1840440000
12	55.00 (2.165)	50	1797330000	1840450000
13	60.00 (2.362)	50	1797340000	1840460000
14	65.00 (2.559)	50	1797350000	1840470000
15	70.00 (2.756)	50	1797360000	1840480000
16	75.00 (2.953)	50	1797370000	1840490000
17	80.00 (3.150)	20		1840500000
18	85.00 (3.346)	20		1840510000
19	90.00 (3.543)	20		1840520000
20	95.00 (3.740)	20		1840530000
21	100.00 (3.937)	20		1840540000
22	105.00 (4.134)	20		1840550000
23	110.00 (4.331)	20		1840560000
24	115.00 (4.528)	20		1840570000

**SL-SMT 5.08/90LF Tape**  
**SL-SMT 5.00/90LF Tape**

additionally with solder flange



**Ordering data**

Solder pin length	1.5 mm
Colour of plastic	<input type="text" value="black"/>

**Pitch 5.08 mm**

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	350	1775234001	
3	10.16	(0.400)	350	1775244001	
4	15.24	(0.600)	350	1775254001	
5	20.32	(0.800)	350	1775264001	
6	25.40	(1.000)	350	1775274001	

**Pitch 5.00 mm**

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.00	(0.197)	350	1797750000	
3	10.00	(0.394)	350	1797760000	
4	15.00	(0.591)	350	1797770000	
5	20.00	(0.787)	350	1797780000	
6	25.00	(0.984)	350	1797790000	

Tape widths: 32, 44, 56, 72, 88

**Accessories**

**Possible colors**

Additional colours on request



**Coding**

See chapter accessories



**Marking strips**

See chapter accessories



**Compartment partition element**

See chapter accessories



**Floodlight indicator**

See chapter accessories



**Solder flange (LF)**

Normally you use a pin header with fastening flanges (F) in combination with a screw from the rear side of the PCB to increase the fixation forces of the pin headers. The disadvantages are additional process steps that make the PCB mounting complex and cost intensive. The patented solder flange was designed to solve exactly this problem and find a simple and cheap solution. The additional solder pins substitute the present screw flanges and they get soldered together with the pin header. This terminates additional process steps and thus reduces production costs. The additional fixation protects the soldered connections from tensile strain and avoids permanent mechanical stress such as caused by the post-fastened screw forces.



SL-SMT 5.08/180  
SL-SMT 5.00/180



High-temperature-resistant, straight, open ended male connector. Packed in box or tape on reel. In tape with 1.5 mm solder pin optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

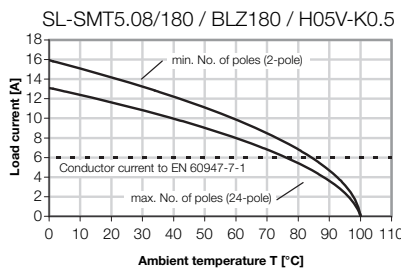
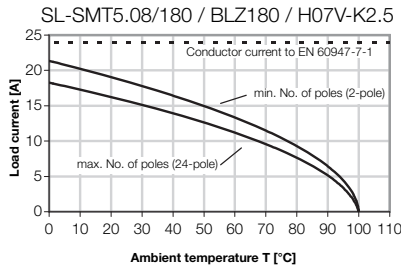
- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

Technical data

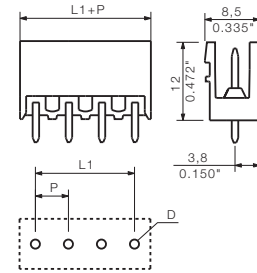
Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>		
Solid H05(07) V-U	mm <sup>2</sup>		
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>		
Flexible with ferrule	mm <sup>2</sup>		
Ferrule with plastic collar	mm <sup>2</sup>		
Stripping length	mm		
Screwdriver blade	mm		
according to norm			
Tightening torque range	Nm		
Rated current at ambient temperature		20°C	40°C
	A	19	16
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL 1059 rated data			
		B	C D
Nominal voltage	V	300	300
Rated current	A	15	10
AWG conductor			
CSA C22.2 rated data			
		B	C D
Rated voltage	V	300	300
Rated current	A	15	10
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	

- Information**
- Additional colours on request
  - Gold-plated contact surfaces on request
  - Rated current related to rated cross-section and min. No. of poles.
  - Hole diameter D = 1.4+0.1mm
  - Hole diameter D = 1.5+0.1mm for 9 poles
  - P on drg. = 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.

Derating curve



SL-SMT 5.08/180 Box  
SL-SMT 5.00/180 Box



Ordering data

Solder pin length	1.5 mm	3.2 mm
Colour of plastic	black	black

Pitch 5.08 mm			
Poles	L1 mm	(inch)	Qty.
2	5.08	(0.200)	100
3	10.16	(0.400)	100
4	15.24	(0.600)	100
5	20.32	(0.800)	50
6	25.40	(1.000)	50
7	30.48	(1.200)	50
8	35.56	(1.400)	50
9	40.64	(1.600)	50
10	45.72	(1.800)	50
11	50.80	(2.000)	50
12	55.88	(2.200)	50
13	60.96	(2.400)	50
14	66.04	(2.600)	50
15	71.12	(2.800)	50
16	76.20	(3.000)	50
17	81.28	(3.200)	20
18	86.36	(3.400)	20
19	91.44	(3.600)	20
20	96.52	(3.800)	20
21	101.60	(4.000)	20
22	106.68	(4.200)	20
23	111.76	(4.400)	20
24	116.84	(4.600)	20

Pitch 5.00 mm			
Poles	L1 mm	(inch)	Qty.
2	5.00	(0.197)	100
3	10.00	(0.394)	100
4	15.00	(0.591)	100
5	20.00	(0.787)	50
6	25.00	(0.984)	50
7	30.00	(1.181)	50
8	35.00	(1.378)	50
9	40.00	(1.575)	50
10	45.00	(1.772)	50
11	50.00	(1.969)	50
12	55.00	(2.165)	50
13	60.00	(2.362)	50
14	65.00	(2.559)	50
15	70.00	(2.756)	50
16	75.00	(2.953)	50
17	80.00	(3.150)	20
18	85.00	(3.346)	20
19	90.00	(3.543)	20
20	95.00	(3.740)	20
21	100.00	(3.937)	20
22	105.00	(4.134)	20
23	110.00	(4.331)	20
24	115.00	(4.528)	20



**SL-SMT 5.08/180 Tape**  
**SL-SMT 5.00/180 Tape**



**Accessories**

**Possible colors**

Additional colours on request



**Coding**

See chapter accessories



**Marking strips**

See chapter accessories



**Compartment partition element**

See chapter accessories



**Ordering data**

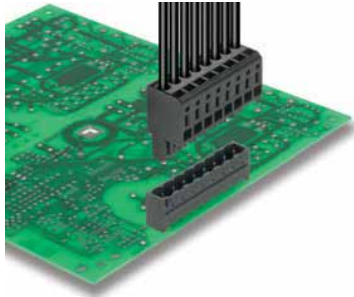
Solder pin length	1.5 mm
Colour of plastic	black

Pitch 5.08 mm				
Poles	L1 mm	(inch)	Qty.	Order No.
2	5.08	(0.200)	250	1821100000
3	10.16	(0.400)	250	1821110000
4	15.24	(0.600)	250	1775594001
5	20.32	(0.800)	250	1775634001
6	25.40	(1.000)	250	1775644001
7	30.48	(1.200)	250	1775654001
8	35.56	(1.400)	250	1775664001

Pitch 5.00 mm				
Poles	L1 mm	(inch)	Qty.	Order No.
2	5.00	(0.197)	250	1797800000
3	10.00	(0.394)	250	1797810000
4	15.00	(0.591)	250	1797820000
5	20.00	(0.787)	250	1797830000
6	25.00	(0.984)	250	1797840000
7	30.00	(1.181)	250	1797850000
8	35.00	(1.378)	250	1797860000

Tape widths: 32, 44, 56, 72, 88

SL-SMT 5.08/180G  
SL-SMT 5.00/180G



High-temperature-resistant, straight, closed ended. Packed in box or tape on reel. In tape with 1.5 mm solder pin optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

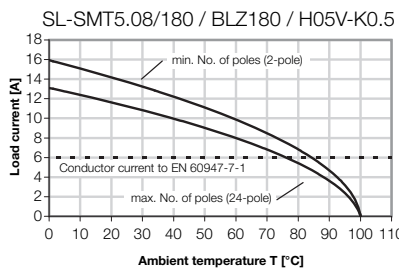
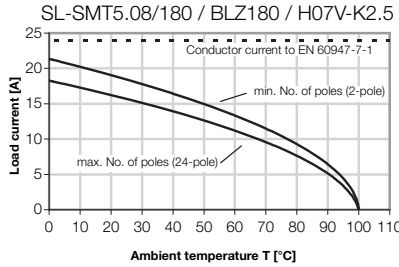
- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

Technical data

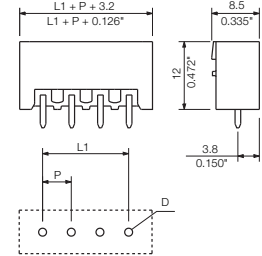
Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>		
Solid H05(07) V-U	mm <sup>2</sup>		
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>		
Flexible with ferrule	mm <sup>2</sup>		
Ferrule with plastic collar	mm <sup>2</sup>		
Stripping length	mm		
Screwdriver blade	mm		
according to norm			
Tightening torque range	Nm		
Rated current at ambient temperature			
	A	20°C	40°C
		19	16
Overvoltage category			
		III	III II
Pollution severity			
		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL 1059 rated data			
		B	C D
Nominal voltage	V	300	300
Rated current	A	15	10
AWG conductor			
CSA C22.2 rated data			
		B	C D
Rated voltage	V	300	300
Rated current	A	15	10
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	

- Information**
- Additional colours on request
  - Gold-plated contact surfaces on request
  - Rated current related to rated cross-section and min. No. of poles.
  - Hole diameter D = 1.4+0.1mm
  - Hole diameter D = 1.5+0.1mm for 9 poles
  - P on drg. = 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.

Derating curve



SL-SMT 5.08/180G Box  
SL-SMT 5.00/180G Box



Ordering data

Solder pin length	1.5 mm	3.2 mm
Colour of plastic	black	black

Pitch 5.08 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	100	1775922001	1838210000
3	10.16	(0.400)	100	1775932001	1838220000
4	15.24	(0.600)	100	1775942001	1838230000
5	20.32	(0.800)	50	1775952001	1838240000
6	25.40	(1.000)	50	1775962001	1838250000
7	30.48	(1.200)	50	1775972001	1838260000
8	35.56	(1.400)	50	1775982001	1838270000
9	40.64	(1.600)	50	1775992001	1838280000
10	45.72	(1.800)	50	1776002001	1838290000
11	50.80	(2.000)	50	1776012001	1838300000
12	55.88	(2.200)	50	1776022001	1838310000
13	60.96	(2.400)	50	1776032001	1838320000
14	66.04	(2.600)	50	1776042001	1838330000
15	71.12	(2.800)	50	1776052001	1838340000
16	76.20	(3.000)	50	1776062001	1838350000
17	81.28	(3.200)	20	1776072001	1838360000
18	86.36	(3.400)	20	1776082001	1838370000
19	91.44	(3.600)	20	1776092001	1838380000
20	96.52	(3.800)	20	1776102001	1838390000
21	101.60	(4.000)	20	1776112001	1838400000
22	106.68	(4.200)	20	1776122001	1838410000
23	111.76	(4.400)	20	1776132001	1838420000
24	116.84	(4.600)	20	1776142001	1838430000

Pitch 5.00 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.00	(0.197)	100	1796630000	1841160000
3	10.00	(0.394)	100	1796640000	1841170000
4	15.00	(0.591)	100	1796650000	1841180000
5	20.00	(0.787)	50	1796660000	1841190000
6	25.00	(0.984)	50	1796670000	1841200000
7	30.00	(1.181)	50	1796680000	1841210000
8	35.00	(1.378)	50	1796690000	1841220000
9	40.00	(1.575)	50	1796700000	1841230000
10	45.00	(1.772)	50	1796710000	1841240000
11	50.00	(1.969)	50	1796720000	1841250000
12	55.00	(2.165)	50	1796730000	1841260000
13	60.00	(2.362)	50	1796740000	1841270000
14	65.00	(2.559)	50	1796750000	1841280000
15	70.00	(2.756)	50	1796760000	1841290000
16	75.00	(2.953)	50	1796770000	1841300000
17	80.00	(3.150)	20		1841310000
18	85.00	(3.346)	20		1841320000
19	90.00	(3.543)	20		1841330000
20	95.00	(3.740)	20		1841340000
21	100.00	(3.937)	20		1841350000
22	105.00	(4.134)	20		1841360000
23	110.00	(4.331)	20		1841370000
24	115.00	(4.528)	20		1841380000

**SL-SMT 5.08/180G Tape**  
**SL-SMT 5.00/180G Tape**



**Accessories**

**Possible colors**

Additional colours on request



**Coding**

See chapter accessories



**Marking strips**

See chapter accessories



**Compartment partition element**

See chapter accessories



**Ordering data**

Solder pin length	1.5 mm
Colour of plastic	black

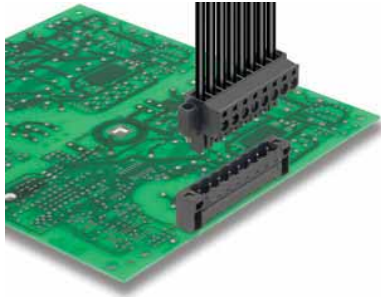
Pitch 5.08 mm				
Poles	L1 mm	(inch)	Qty.	Order No.
2	5.08	(0.200)	250	1820170000
3	10.16	(0.400)	250	1775934001
4	15.24	(0.600)	250	1775944001
5	20.32	(0.800)	250	1775954001
6	25.40	(1.000)	250	1775964001
7	30.48	(1.200)	250	1775974001

Pitch 5.00 mm				
Poles	L1 mm	(inch)	Qty.	Order No.
2	5.00	(0.197)	250	1797870000
3	10.00	(0.394)	250	1797880000
4	15.00	(0.591)	250	1797890000
5	20.00	(0.787)	250	1797900000
6	25.00	(0.984)	250	1797910000
7	30.00	(1.181)	250	1797920000

Tape widths: 32, 44, 56, 72, 88

# SL-SMT 5.0x

## SL-SMT 5.08/180F



High-temperature-resistant, straight, male connector with flange. Packed in a box or tape on reel. In tape with 1.5 mm solder pin optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

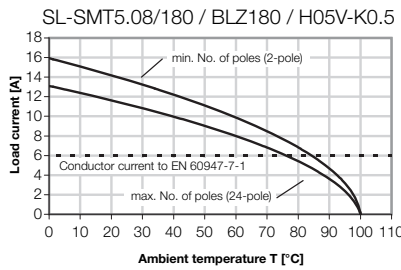
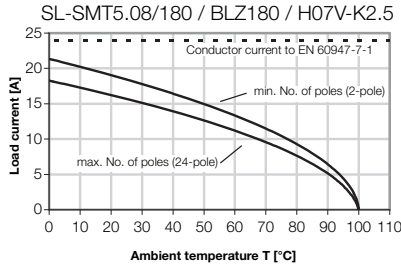
- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

### Technical data

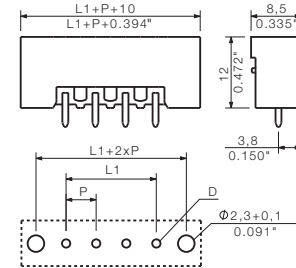
Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>		
Solid H05(07) V-U	mm <sup>2</sup>		
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>		
Flexible with ferrule	mm <sup>2</sup>		
Ferrule with plastic collar	mm <sup>2</sup>		
Stripping length	mm		
Screwdriver blade	mm		
according to norm			
Tightening torque range	Nm		
Rated current at ambient temperature		20°C	40°C
	A	19	16
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL 1059 rated data			
		B	C D
Nominal voltage	V	300	300
Rated current	A	15	10
AWG conductor			
CSA C22.2 rated data			
		B	C D
Rated voltage	V	300	300
Rated current	A	15	10
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	

- ### Information
- Additional colours on request
  - Gold-plated contact surfaces on request
  - Rated current related to rated cross-section and min. No. of poles.
  - Hole diameter D = 1.4+0.1mm
  - Hole diameter D = 1.5+0.1mm for 9 poles
  - P on drg. = 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.

### Derating curve



## SL-SMT 5.08/180F Box



### Ordering data

Solder pin length		3.2 mm	
Colour of plastic		black	
Pitch 5.08 mm			
Poles	L1 mm (inch)	Qty.	Order No.
2	5.08 (0.200)	100	1837860000
3	10.16 (0.400)	100	1820600000
4	15.24 (0.600)	100	1837870000
5	20.32 (0.800)	50	1820770000
6	25.40 (1.000)	50	1820610000
7	30.48 (1.200)	50	1837880000
8	35.56 (1.400)	50	1820620000
9	40.64 (1.600)	50	1837890000
10	45.72 (1.800)	50	1820780000
11	50.80 (2.000)	50	1837900000
12	55.88 (2.200)	50	1820630000
13	60.96 (2.400)	50	1820790000
14	66.04 (2.600)	50	1820800000
15	71.12 (2.800)	50	1837910000
16	76.20 (3.000)	50	1820640000
17	81.28 (3.200)	20	1837920000
18	86.36 (3.400)	20	1820650000
19	91.44 (3.600)	20	1837930000
20	96.52 (3.800)	20	1820810000
21	101.60 (4.000)	20	1837940000
22	106.68 (4.200)	20	1837950000
23	111.76 (4.400)	20	1837960000
24	116.84 (4.600)	20	1837970000

## Accessories

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### Possible colors

Additional colours on request



### Coding

See chapter accessories



### Marking strips

See chapter accessories

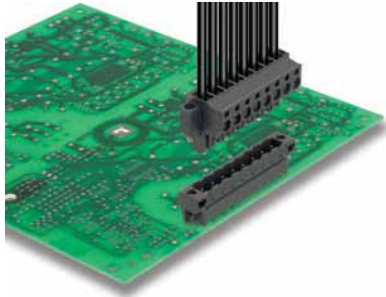


### Compartment partition element

See chapter accessories



**SL-SMT 5.08/180LF**  
**SL-SMT 5.00/180LF**



High-temperature-resistant, straight, male connector with solder flange. Packed in a box or tape on reel. In tape with 1.5 mm solder pin optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

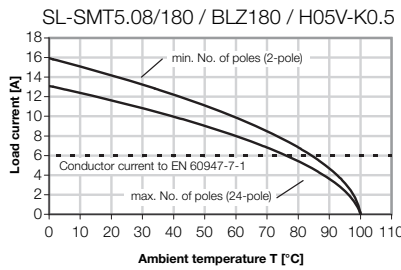
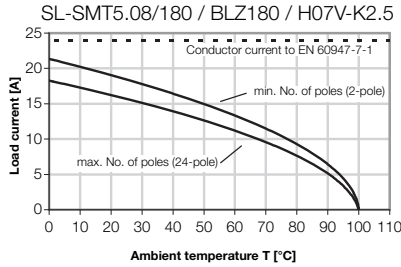
- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

**Technical data**

Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>		
Solid H05(07) V-U	mm <sup>2</sup>		
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>		
Flexible with ferrule	mm <sup>2</sup>		
Ferrule with plastic collar	mm <sup>2</sup>		
Stripping length	mm		
Screwdriver blade	mm		
according to norm			
Tightening torque range	Nm		
Rated current at ambient temperature		<b>20°C</b>	<b>40°C</b>
	A	19	16
Overvoltage category		<b>III</b>	<b>III</b>
Pollution severity		<b>3</b>	<b>2</b>
Rated voltage	V	250	320
Rated impulse voltage	kV	4	4
UL 1059 rated data			
		<b>B</b>	<b>C</b>
Nominal voltage	V	300	300
Rated current	A	15	10
AWG conductor			
CSA C22.2 rated data			
		<b>B</b>	<b>C</b>
Rated voltage	V	300	300
Rated current	A	15	10
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	

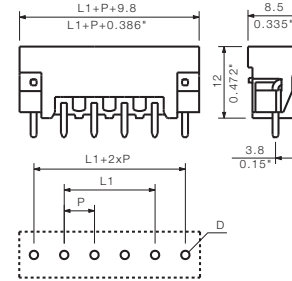
- Information**
- Additional colours on request
  - Gold-plated contact surfaces on request
  - Rated current related to rated cross-section and min. No. of poles.
  - Hole diameter D = 1.4+0.1mm
  - Hole diameter D = 1.5+0.1mm for 9 poles
  - P on drg. = pitch
  - Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**Derating curve**



**SL-SMT 5.08/180LF Box**  
**SL-SMT 5.00/180LF Box**

additionally with solder flange



**Ordering data**

Solder pin length	1.5 mm	3.2 mm
Colour of plastic	black	black

Pitch 5.08 mm							
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.	Order No.	Order No.
2	5.08	(0.200)	100	1776362001	1838440000	1838440000	1838450000
3	10.16	(0.400)	100	1776372001	1838450000	1838450000	1838460000
4	15.24	(0.600)	100	1776382001	1838460000	1838460000	1838470000
5	20.32	(0.800)	50	1776392001	1838470000	1838470000	1838480000
6	25.40	(1.000)	50	1776402001	1838480000	1838480000	1838490000
7	30.48	(1.200)	50	1776412001	1838490000	1838490000	1838500000
8	35.56	(1.400)	50	1776422001	1838500000	1838500000	1838510000
9	40.64	(1.600)	50	1776432001	1838510000	1838510000	1838520000
10	45.72	(1.800)	50	1776442001	1838520000	1838520000	1838530000
11	50.80	(2.000)	50	1776452001	1838530000	1838530000	1838540000
12	55.88	(2.200)	50	1776462001	1838540000	1838540000	1838550000
13	60.96	(2.400)	50	1776472001	1838550000	1838550000	1838560000
14	66.04	(2.600)	50	1776482001	1838560000	1838560000	1838570000
15	71.12	(2.800)	50	1776492001	1838570000	1838570000	1838580000
16	76.20	(3.000)	50	1776502001	1838580000	1838580000	1838590000
17	81.28	(3.200)	20	1776512001	1838590000	1838590000	1838600000
18	86.36	(3.400)	20	1776522001	1838600000	1838600000	1838610000
19	91.44	(3.600)	20	1776532001	1838610000	1838610000	1838620000
20	96.52	(3.800)	20	1776542001	1838620000	1838620000	1838630000
21	101.60	(4.000)	20	1776552001	1838630000	1838630000	1838640000
22	106.68	(4.200)	20	1776572001	1838640000	1838640000	1838650000
23	111.76	(4.400)	20	1776582001	1838650000	1838650000	1838660000
24	116.84	(4.600)	20	1776592001	1838660000	1838660000	

Pitch 5.00 mm							
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.	Order No.	Order No.
2	5.00	(0.197)	100	1796780000	1841390000	1841390000	1841400000
3	10.00	(0.394)	100	1796790000	1841400000	1841400000	1841410000
4	15.00	(0.591)	100	1796800000	1841410000	1841410000	1841420000
5	20.00	(0.787)	50	1796810000	1841420000	1841420000	1841430000
6	25.00	(0.984)	50	1796820000	1841430000	1841430000	1841440000
7	30.00	(1.181)	50	1796830000	1841440000	1841440000	1841450000
8	35.00	(1.378)	50	1796840000	1841450000	1841450000	1841460000
9	40.00	(1.575)	50	1796850000	1841460000	1841460000	1841470000
10	45.00	(1.772)	50	1796860000	1841470000	1841470000	1841480000
11	50.00	(1.969)	50	1796870000	1841480000	1841480000	1841490000
12	55.00	(2.165)	50	1796880000	1841490000	1841490000	1841500000
13	60.00	(2.362)	50	1796890000	1841500000	1841500000	1841510000
14	65.00	(2.559)	50	1796900000	1841510000	1841510000	1841520000
15	70.00	(2.756)	50	1796910000	1841520000	1841520000	1841530000
16	75.00	(2.953)	50	1796920000	1841530000	1841530000	1841540000
17	80.00	(3.150)	20		1841540000	1841540000	1841550000
18	85.00	(3.346)	20		1841550000	1841550000	1841560000
19	90.00	(3.543)	20		1841560000	1841560000	1841570000
20	95.00	(3.740)	20		1841570000	1841570000	1841580000
21	100.00	(3.937)	20		1841580000	1841580000	1841590000
22	105.00	(4.134)	20		1841590000	1841590000	1841600000
23	110.00	(4.331)	20		1841600000	1841600000	1841610000
24	115.00	(4.528)	20		1841610000	1841610000	

**SL-SMT 5.08/180LF Tape**  
**SL-SMT 5.00/180LF Tape**



**Accessories**

**Possible colors**

Additional colours on request



**Coding**

See chapter accessories



**Marking strips**

See chapter accessories



**Compartment partition element**

See chapter accessories



**Solder flange (LF)**

Normally you use a pin header with fastening flanges (F) in combination with a screw from the rear side of the PCB to increase the fixation forces of the pin headers. The disadvantages are additional process steps that make the PCB mounting complex and cost intensive. The patented solder flange was designed to solve exactly this problem and find a simple and cheap solution. The additional solder pins substitute the present screw flanges and they get soldered together with the pin header. This terminates additional process steps and thus reduces production costs. The additional fixation protects the soldered connections from tensile strain and avoids permanent mechanical stress such as caused by the post-fastened screw forces.



**Ordering data**

Solder pin length	1.5 mm
Colour of plastic	black

Pitch 5.08 mm				
Poles	L1 mm	(inch)	Qty.	Order No.
2	5.08	(0.200)	250	1776364001
3	10.16	(0.400)	250	1776374001
4	15.24	(0.600)	250	1776384001
5	20.32	(0.800)	250	1776394001
6	25.40	(1.000)	250	1776404001

Pitch 5.00 mm				
Poles	L1 mm	(inch)	Qty.	Order No.
2	5.00	(0.197)	250	1797930000
3	10.00	(0.394)	250	1797940000
4	15.00	(0.591)	250	1797950000
5	20.00	(0.787)	250	1797960000
6	25.00	(0.984)	250	1797970000

Tape widths: 32, 44, 56, 72, 88

SL-SMT 5.08/270 GL



High-temperature-resistant, 270° angled, low, closed ended male connector. Packed in a box or tape on reel. In tape form with 1.5 mm solder pin optimised for automatic assembly; 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

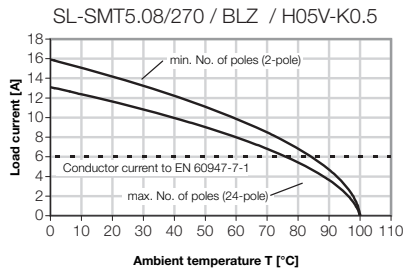
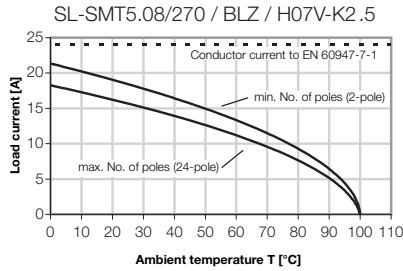
- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

Technical data

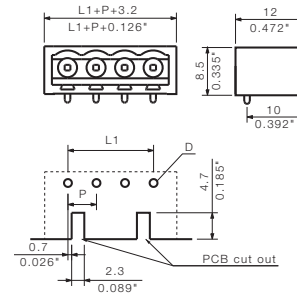
Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>		
Solid H05(07) V-U	mm <sup>2</sup>		
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>		
Flexible with ferrule	mm <sup>2</sup>		
Ferrule with plastic collar	mm <sup>2</sup>		
Stripping length	mm		
Screwdriver blade	mm		
according to norm			
Tightening torque range	Nm		
Rated current at ambient temperature			
	A	20°C	40°C
		19	16
Overvoltage category			
		III	III
Pollution severity			
		3	2
Rated voltage	V	250	320
Rated impulse voltage	kV	4	4
UL 1059 rated data			
		B	C
Nominal voltage	V	300	300
Rated current	A	15	10
AWG conductor			
CSA C22.2 rated data			
		B	C
Rated voltage	V	300	300
Rated current	A	15	10
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	

- Information**
- Additional colours on request
  - Gold-plated contact surfaces on request
  - Rated current related to rated cross-section and min. No. of poles.
  - Hole diameter D = 1.4+0.1mm
  - Hole diameter D = 1.5+0.1mm for 9 poles
  - P on drg. = 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.

Derating curve



SL-SMT 5.08/270 GL Box



Ordering data

Solder pin length		1.5 mm	3.2 mm
Colour of plastic		black	black
Pitch 5.08 mm			
Poles	L1 mm (inch)	Qty.	Order No.
2	5.08 (0.200)	100	1877100000
3	10.16 (0.400)	100	1877130000
4	15.24 (0.600)	100	1877140000
5	20.32 (0.800)	50	1877150000
6	25.40 (1.000)	50	1877160000
7	30.48 (1.200)	50	1877170000
8	35.56 (1.400)	50	1877180000





SL-SMT 5.08/270 GH



High-temperature-resistant, 270° angled, high, closed ended male connector. Packed in a box or tape on reel. In tape form with 1.5 mm solder pin optimised for automatic assembly; 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

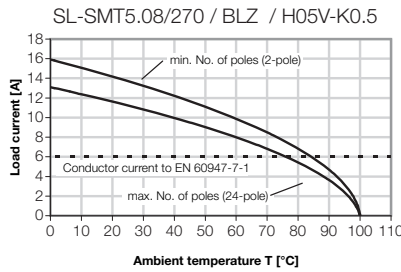
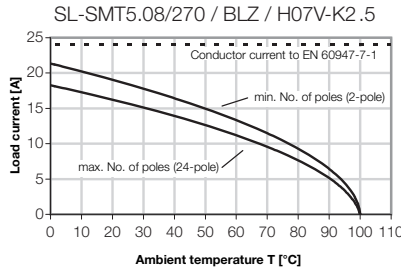
- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

Technical data

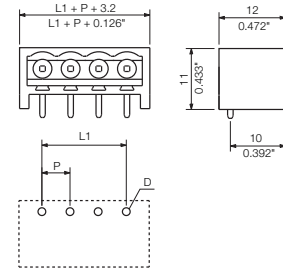
Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>		
Solid H05(07) V-U	mm <sup>2</sup>		
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>		
Flexible with ferrule	mm <sup>2</sup>		
Ferrule with plastic collar	mm <sup>2</sup>		
Stripping length	mm		
Screwdriver blade	mm		
according to norm			
Tightening torque range	Nm		
Rated current at ambient temperature			
	A	20°C	40°C
		19	16
Overvoltage category			
		III	III
Pollution severity			
		3	2
Rated voltage	V	250	320
Rated impulse voltage	kV	4	4
UL 1059 rated data			
		B	C
Nominal voltage	V	300	300
Rated current	A	15	10
AWG conductor			
CSA C22.2 rated data			
		B	C
Rated voltage	V	300	300
Rated current	A	15	10
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	

- Information**
- Additional colours on request
  - Gold-plated contact surfaces on request
  - Rated current related to rated cross-section and min. No. of poles.
  - Hole diameter D = 1.4+0.1mm
  - Hole diameter D = 1.5+0.1mm for 9 poles
  - P on drg. = 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.

Derating curve



SL-SMT 5.08/270 GH Box



Ordering data

Solder pin length		1.5 mm	3.2 mm
Colour of plastic		black	black
Pitch 5.08 mm			
Poles	L1 mm (inch)	Qty.	Order No.
2	5.08 (0.200)	100	1876340000
3	10.16 (0.400)	100	1877010000
4	15.24 (0.600)	100	1877030000
5	20.32 (0.800)	50	1877040000
6	25.40 (1.000)	50	1877050000
7	30.48 (1.200)	50	1877060000
8	35.56 (1.400)	50	1877080000
			1877370000
			1877380000
			1877390000
			1877400000
			1877410000
			1877420000
			1877450000



SL-SMT 5.08/270 FL



High-temperature-resistant, 270° angled, low male connector with solder flange. Packed in a box or in tape on reel. In tape form with 1.5 mm solder pin optimised for automatic assembly; 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

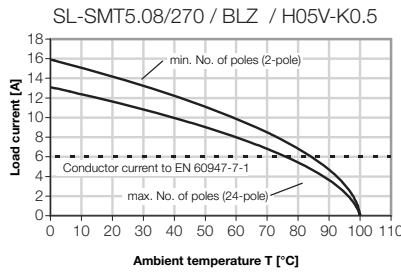
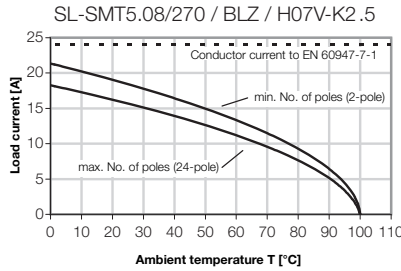
- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

Technical data

Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>		
Solid H05(07) V-U	mm <sup>2</sup>		
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>		
Flexible with ferrule	mm <sup>2</sup>		
Ferrule with plastic collar	mm <sup>2</sup>		
Stripping length	mm		
Screwdriver blade	mm		
according to norm			
Tightening torque range	Nm		
Rated current at ambient temperature			
	A	20°C	40°C
		19	16
Overvoltage category			
		III	III II
Pollution severity			
		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL 1059 rated data			
		B	C D
Nominal voltage	V	300	300
Rated current	A	15	10
AWG conductor			
CSA C22.2 rated data			
		B	C D
Rated voltage	V	300	300
Rated current	A	15	10
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	

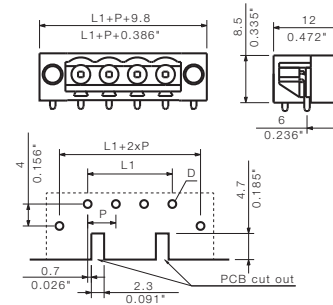
- Information**
- Additional colours on request
  - Gold-plated contact surfaces on request
  - Rated current related to rated cross-section and min. No. of poles.
  - Hole diameter D = 1.4+0.1mm
  - Hole diameter D = 1.5+0.1mm for 9 poles
  - P on drg. = pitch
  - Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Derating curve



SL-SMT 5.08/270 FL Box

additionally with solder flange



Ordering data

Solder pin length		1.5 mm	3.2 mm	
Colour of plastic		black	black	
Pitch 5.08 mm				
Poles	L1 mm (inch)	Qty.	Order No.	Order No.
2	5.08 (0.200)	100	1878090000	1876850000
3	10.16 (0.400)	100	1878110000	1876860000
4	15.24 (0.600)	100	1878120000	1876870000
5	20.32 (0.800)	50	1878130000	1876880000
6	25.40 (1.000)	50	1878140000	1876890000
7	30.48 (1.200)	50	1878150000	1876900000
8	35.56 (1.400)	50	1878160000	1876910000

**SL-SMT 5.08/270 FL Tape**

additionally with solder flange



**Ordering data**

Solder pin length		1.5 mm	3.2 mm
Colour of plastic		black	black
Pitch 5.08 mm			
Poles	L1 mm (inch)	Qty.	Order No.
2	5.08 (0.200)	200	1876990000
3	10.16 (0.400)	200	1877000000
4	15.24 (0.600)	200	1877020000
5	20.32 (0.800)	200	1877070000
6	25.40 (1.000)	200	1877090000
7	30.48 (1.200)	200	1877110000
8	35.56 (1.400)	200	1877120000

Tape widths: 32, 44, 56, 72, 88

**Accessories**

**Possible colors**

Additional colours on request



**Coding**

See chapter accessories



**Marking strips**

See chapter accessories



**Compartment partition element**

See chapter accessories



**Solder flange (LF)**

Normally you use a pin header with fastening flanges (F) in combination with a screw from the rear side of the PCB to increase the fixation forces of the pin headers. The disadvantages are additional process steps that make the PCB mounting complex and cost intensive. The patented solder flange was designed to solve exactly this problem and find a simple and cheap solution. The additional solder pins substitute the present screw flanges and they get soldered together with the pin header. This terminates additional process steps and thus reduces production costs. The additional fixation protects the soldered connections from tensile strain and avoids permanent mechanical stress such as caused by the post-fastened screw forces.



SL-SMT 5.08/270 FH



High-temperature-resistant, 270° angled, high level male connector with solder flange. Packed in a box or in tape on reel. In tape form with 1.5 mm solder pin optimised for automatic assembly; 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

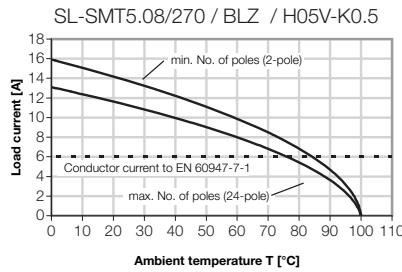
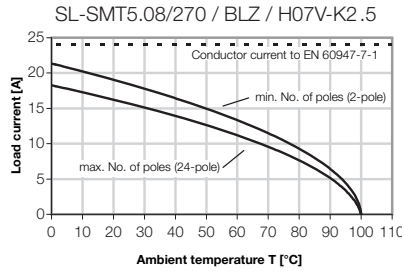
- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

Technical data

Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>		
Solid H05(07) V-U	mm <sup>2</sup>		
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>		
Flexible with ferrule	mm <sup>2</sup>		
Ferrule with plastic collar	mm <sup>2</sup>		
Stripping length	mm		
Screwdriver blade	mm		
according to norm			
Tightening torque range	Nm		
Rated current at ambient temperature			
	A	20°C	40°C
		19	16
Overvoltage category			
		III	III II
Pollution severity			
		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL 1059 rated data			
		B	C D
Nominal voltage	V	300	300
Rated current	A	15	10
AWG conductor			
CSA C22.2 rated data			
		B	C D
Rated voltage	V	300	300
Rated current	A	15	10
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	

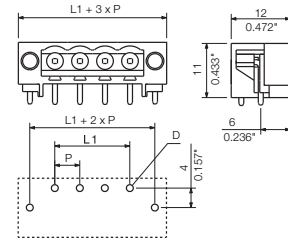
- Information**
- Additional colours on request
  - Gold-plated contact surfaces on request
  - Rated current related to rated cross-section and min. No. of poles.
  - Hole diameter D = 1.4+0.1mm
  - Hole diameter D = 1.5+0.1mm for 9 poles
  - P on drg. = pitch
  - Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Derating curve



SL-SMT 5.08/270 FH Box

additionally with solder flange



Ordering data

Solder pin length		1.5 mm	3.2 mm	
Colour of plastic		black	black	
Pitch 5.08 mm				
Poles	L1 mm (inch)	Qty.	Order No.	Order No.
2	5.08 (0.200)	100	1877960000	1877190000
3	10.16 (0.400)	100	1877970000	1877210000
4	15.24 (0.600)	100	1877980000	1877330000
5	20.32 (0.800)	50	1877990000	1877430000
6	25.40 (1.000)	50	1878000000	1877460000
7	30.48 (1.200)	50	1878010000	1877480000
8	35.56 (1.400)	50	1878020000	1877500000



## SL-SMT 5.0x

### SL-SMaRT 5.0x



High-temperature-resistant male connector for side-by-side mounting. Packed in tape on reel format with 1.5 mm solder pin. Optimised for automatic assembly and suitable for reflow soldering. Stable up to 290 °C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

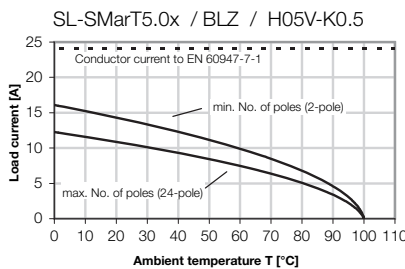
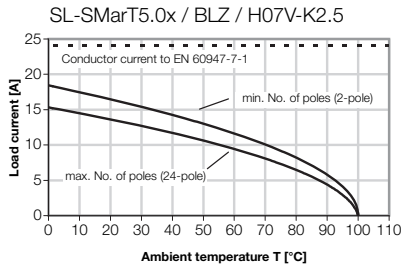
- 400 V (IEC) / 300 V (UL)
- 16.5 A (IEC) / 15 A (UL)

### Technical data

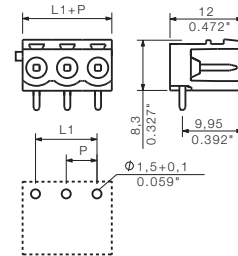
Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>		
Solid H05(07) V-U	mm <sup>2</sup>		
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>		
Flexible with ferrule	mm <sup>2</sup>		
Ferrule with plastic collar	mm <sup>2</sup>		
Stripping length	mm		
Screwdriver blade	mm		
according to norm			
Tightening torque range	Nm		
Rated current at ambient temperature			
	A	20°C	40°C
		16.5	14
Overvoltage category			
		III	III
Pollution severity			
		3	2
Rated voltage	V	250	320
Rated impulse voltage	kV	4	4
UL 1059 rated data			
		B	C
Nominal voltage	V	300	300
Rated current	A	15	10
AWG conductor			
CSA C22.2 rated data			
		B	C
Rated voltage	V	300	300
Rated current	A	15	10
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	

- ### Information
- Additional colours on request
  - Gold-plated contact surfaces on request
  - Rated current related to rated cross-section and min. No. of poles.
  - P on drg. = 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.

### Derating curve



### SL-SMaRT 5.0x/90 Tape



### Ordering data

Solder pin length	1.5 mm
Colour of plastic	black

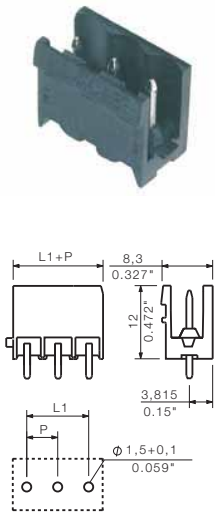
### Pitch 5.0X mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	350	1812430000	
3	10.16	(0.400)	350	1812440000	

Tape widths: 32  
May be used for 5.00 and 5.08 mm pitches



SL-SMaRT 5.0x/180 Tape



Ordering data

Solder pin length	1.5 mm
Colour of plastic	black

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	270	1812450000	
3	10.16	(0.400)	270	1812460000	

Tape widths: 32  
May be used for 5.00 and 5.08 mm pitches

Accessories

Possible colors

Additional colours on request



Coding

See chapter accessories



Marking strips

See chapter accessories



Compartment partition element

See chapter accessories



SL-SMaRT

The SL-SMaRT System was developed in order to bring even further improvements to the benefits of conventional SMT/THR components.

The aim was to satisfy the numerous demands of automatic PCB assembly.

The result is a male connector with the following features:

- minimum weight
- compact form
- processing in automatic PCB assembly machines
- maximum assembly speed
- standardised automatic packing
- space-saving feeding in automatic machines (feeder as narrow as possible)
- no pick&place pad required

Automatic PCB assembly machines operate most cost-effectively when they run at maximum speed. This is not possible with heavy components.

The solution is to use 2- and 3-pole male connector modules to interconnect components of any size. Therefore, by assembling the SL-SMaRT modules in one row, 23 standard male connectors (2- to 24-pole) can already be created.

The optimum tolerance design of the SL-SMaRT modules enables the use at pitches of 5.00 mm (0.197 inch) and 5.08 mm (0.200 inch). The small pitch deviation is compensated for by the spacing to the next module.

The trick is that by using the appropriate hole layout, the number of standard male connectors replaced increases from 23 to 46 variations.



And the fact that two plug-in directions are available, 90° and 180°, means that the result is increased to 92 variations.

The optimum use of the feeder bank is possible thanks to the need for only four belt conveyor systems with a belt width of 32 mm each.

SLDV-THR 5.00 G



High-temperature-resistant, 2-tier, laterally offset, closed male connector, with solder flange option. 1.5 mm solder pin suitable for reflow soldering applications. 3.2 mm solder pin suitable for reflow and wave soldering applications. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors provide space for labelling and can be coded. Packed in cardboard box.

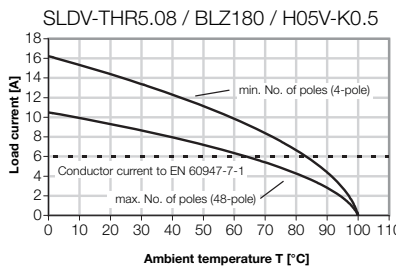
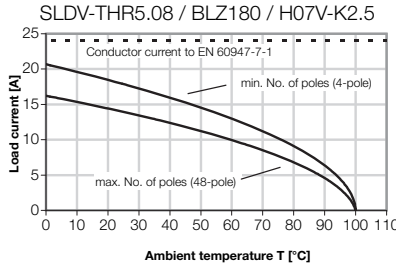
- 400 V (IEC) / 300 V (UL)
- 15 A (IEC) / 10 A (UL)

Technical data

Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>		
Solid H05(07) V-U	mm <sup>2</sup>		
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>		
Flexible with ferrule	mm <sup>2</sup>		
Ferrule with plastic collar	mm <sup>2</sup>		
Stripping length	mm		
Screwdriver blade	mm		
according to norm			
Tightening torque range	Nm		
Rated current at ambient temperature			
	A	20°C	40°C
		15	13
Overvoltage category			
		III	III
Pollution severity			
		3	2
Rated voltage	V	250	320
Rated impulse voltage	kV	4	4
UL 1059 rated data			
		B	C
Nominal voltage	V	300	300
Rated current	A	10	10
AWG conductor			
CSA C22.2 rated data			
		B	C
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	
Information			

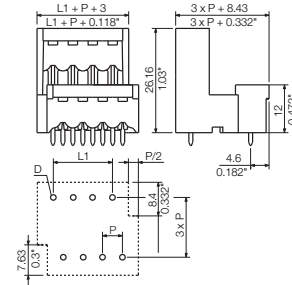
- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- Spacing between rows: see hole layout
- Hole diameter D = 1.4±0.1mm
- Hole diameter D = 1.5±0.1mm for 18 poles
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Derating curve



SLDV-THR 5.00/180G Box

without solder flange



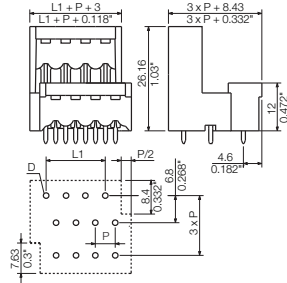
Ordering data

Solder pin length	1.5 mm	3.2 mm
Colour of plastic	black	black

Pitch 5.00 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
4	5.00	(0.197)	50	1894980000	1882690000
6	10.00	(0.394)	50	1894990000	1882700000
8	15.00	(0.591)	50	1895000000	1882370000
10	20.00	(0.787)	50	1895010000	1882710000
12	25.00	(0.984)	50	1895020000	1882720000
14	30.00	(1.181)	20	1895030000	1882730000
16	35.00	(1.378)	20	1895040000	1882380000
18	40.00	(1.575)	20	1895050000	1882740000
20	45.00	(1.772)	20	1895060000	1882390000
22	50.00	(1.969)	10	1895070000	1882750000
24	55.00	(2.165)	10	1895080000	1882760000
26	60.00	(2.362)	10	1895090000	1882770000
28	65.00	(2.559)	10	1895100000	1882780000
30	70.00	(2.756)	10	1895110000	1882790000
32	75.00	(2.953)	10	1895120000	1882800000
34	80.00	(3.150)	10	1895130000	1882810000
36	85.00	(3.346)	10	1895140000	1882820000
38	90.00	(3.543)	10	1895150000	1882830000
40	95.00	(3.740)	10	1895180000	1882400000
42	100.00	(3.937)	10	1895190000	1882840000
44	105.00	(4.134)	10	1895200000	1882850000
46	110.00	(4.331)	10	1895210000	1882860000
48	115.00	(4.528)	10	1895220000	1882870000

### SLDV-THR 5.00/180GLF Box

with solder flange



#### Ordering data

Solder pin length	1.5 mm	3.2 mm
Colour of plastic	black	black

#### Pitch 5.00 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
4	5.00	(0.197)	50	1911750000	1911290000
6	10.00	(0.394)	50	1911760000	1911310000
8	15.00	(0.591)	50	1911770000	1911320000
10	20.00	(0.787)	50	1911780000	1911330000
12	25.00	(0.984)	50	1911790000	1911340000
14	30.00	(1.181)	20	1911800000	1911350000
16	35.00	(1.378)	20	1911810000	1911360000
18	40.00	(1.575)	20	1911820000	1911370000
20	45.00	(1.772)	20	1911830000	1911410000
22	50.00	(1.969)	10	1911840000	1911470000
24	55.00	(2.165)	10	1911850000	1911500000
26	60.00	(2.362)	10	1911860000	1911520000
28	65.00	(2.559)	10	1911870000	1911550000
30	70.00	(2.756)	10	1911880000	1911640000
32	75.00	(2.953)	10	1911890000	1911650000
34	80.00	(3.150)	10	1911900000	1911660000
36	85.00	(3.346)	10	1911910000	1911670000
38	90.00	(3.543)	10	1911920000	1911680000
40	95.00	(3.740)	10	1911930000	1911690000
42	100.00	(3.937)	10	1911940000	1911710000
44	105.00	(4.134)	10	1911950000	1911720000
46	110.00	(4.331)	10	1911960000	1911730000
48	115.00	(4.528)	10	1911970000	1911740000

### Accessories

#### Possible colors

Additional colours on request



#### Coding

See chapter accessories



#### Marking strips

See chapter accessories



#### Compartment partition element

See chapter accessories

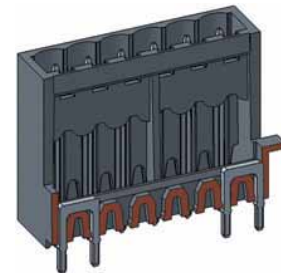


### SLDV-THR 180GLF

The space-saving SLDVTHR double level male connector complements the reflow-compatible products from Weidmüller. High-temperature-resistant plastics enable the product to be integrated into the reflow soldering process.

This range offers additional fixing to the PCB to resist greater mechanical loads.

The SLDV-THR...GLF incorporates an additional fixing without screws to relieve the mechanical loads on the contact pins. To do this, there are solder pins in optimum positions which do not have an electrical function.



**SLDV-THR 5.08**  
**SLDV-THR 5.00**



High-temperature-resistant, double level, laterally offset male connector with flange or solder flange. 1.5 mm solder pin suitable for reflow soldering. 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded. Packaged in cardboard box.

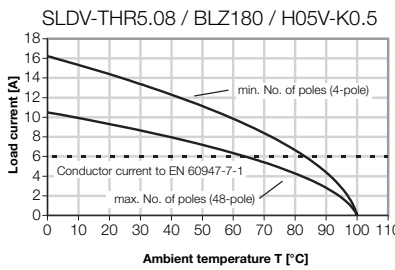
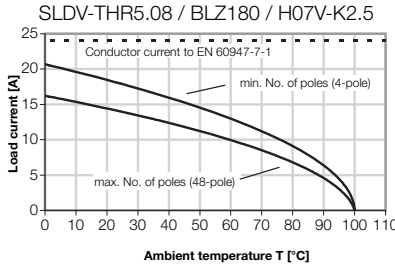
- 400 V (IEC) / 300 V (UL)
- 15 A (IEC) / 10 A (UL)

**Technical data**

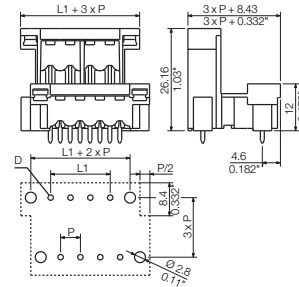
Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>		
Solid H05(07) V-U	mm <sup>2</sup>		
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>		
Flexible with ferrule	mm <sup>2</sup>		
Ferrule with plastic collar	mm <sup>2</sup>		
Stripping length	mm		
Screwdriver blade	mm		
according to norm			
Tightening torque range	Nm		
Rated current at ambient temperature			
	A	20°C	40°C
		15	13
Overvoltage category			
		III	III II
Pollution severity			
		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL 1059 rated data			
		B	C D
Nominal voltage	V	300	300
Rated current	A	10	10
AWG conductor			
CSA C22.2 rated data			
		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	
Information			

- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- Spacing between rows: see hole layout
- Hole diameter D = 1.4+0.1mm
- Hole diameter D = 1.5+0.1mm for 18 poles
- P on drg. = 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.

**Derating curve**



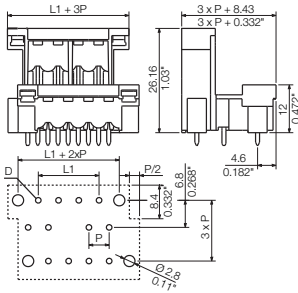
**SLDV-THR 5.08/180F Box**  
**SLDV-THR 5.00/180F Box**



**Ordering data**

Solder pin length		1.5 mm	3.2 mm		
Colour of plastic		black	black		
Pitch 5.08 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
4	5.08	(0.200)	50	1828890000	1828770000
6	10.16	(0.400)	50	1828900000	1828780000
8	15.24	(0.600)	50	1828910000	1828790000
10	20.32	(0.800)	50	1828920000	1828800000
12	25.40	(1.000)	50	1828930000	1828810000
14	30.48	(1.200)	20	1828940000	1828820000
16	35.56	(1.400)	20	1828950000	1828830000
18	40.64	(1.600)	20	1828960000	1828840000
20	45.72	(1.800)	20	1828970000	1828850000
22	50.80	(2.000)	10	1828980000	1828860000
24	55.88	(2.200)	10	1828990000	1828870000
26	60.96	(2.400)	10	1829000000	1828880000
28	66.04	(2.600)	10	1881310000	1889340000
30	71.12	(2.800)	10	1881320000	1889350000
32	76.20	(3.000)	10	1881330000	1886330000
34	81.28	(3.200)	10	1881350000	1889360000
36	86.36	(3.400)	10	1881360000	1889370000
38	91.44	(3.600)	10	1881380000	1889380000
40	96.52	(3.800)	10	1881410000	1889390000
42	101.60	(4.000)	10	1881430000	1889400000
44	106.68	(4.200)	10	1881440000	1889410000
46	111.76	(4.400)	10	1881450000	1889420000
48	116.84	(4.600)	10	1881460000	1889430000
Pitch 5.00 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
4	5.00	(0.197)	50	1895230000	1882930000
6	10.00	(0.394)	50	1895240000	1882940000
8	15.00	(0.591)	50	1895250000	1882950000
10	20.00	(0.787)	50	1895260000	1882960000
12	25.00	(0.984)	50	1895270000	1882970000
14	30.00	(1.181)	20	1895280000	1882980000
16	35.00	(1.378)	20	1895290000	1882990000
18	40.00	(1.575)	20	1895300000	1883000000
20	45.00	(1.772)	20	1895310000	1881340000
22	50.00	(1.969)	10	1895320000	1883010000
24	55.00	(2.165)	10	1895330000	1881370000
26	60.00	(2.362)	10	1895340000	1883020000
28	65.00	(2.559)	10	1895350000	1881390000
30	70.00	(2.756)	10	1895360000	1883030000
32	75.00	(2.953)	10	1895370000	1881400000
34	80.00	(3.150)	10	1895380000	1881420000
36	85.00	(3.346)	10	1895390000	1881470000
38	90.00	(3.543)	10	1895400000	1883040000
40	95.00	(3.740)	10	1895410000	1881490000
42	100.00	(3.937)	10	1895420000	1883050000
44	105.00	(4.134)	10	1895430000	1883060000
46	110.00	(4.331)	10	1895440000	1883070000
48	115.00	(4.528)	10	1895450000	1883080000

**SLDV-THR 5.08/180FLF Box**  
**SLDV-THR 5.00/180FLF Box**



**Ordering data**

<b>Solder pin length</b>	<b>1.5 mm</b>	<b>3.2 mm</b>
<b>Colour of plastic</b>	<b>black</b>	<b>black</b>

Pitch 5.08 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
4	5.08	(0.200)	50	1829130000	1829010000
6	10.16	(0.400)	50	1829140000	1829020000
8	15.24	(0.600)	50	1829150000	1829030000
10	20.32	(0.800)	50	1829160000	1829040000
12	25.40	(1.000)	50	1829170000	1829050000
14	30.48	(1.200)	20	1829180000	1829060000
16	35.56	(1.400)	20	1829190000	1829070000
18	40.64	(1.600)	20	1829200000	1829080000
20	45.72	(1.800)	20	1829210000	1829090000
22	50.80	(2.000)	10	1829220000	1829100000
24	55.88	(2.200)	10	1829230000	1829110000
26	60.96	(2.400)	10	1829240000	1829120000
28	66.04	(2.600)	10	1881480000	1889200000
30	71.12	(2.800)	10	1881500000	1889210000
32	76.20	(3.000)	10	1881510000	1866320000
34	81.28	(3.200)	10	1881520000	1889220000
36	86.36	(3.400)	10	1881530000	1889270000
38	91.44	(3.600)	10	1881540000	1889280000
40	96.52	(3.800)	10	1881550000	1889290000
42	101.60	(4.000)	10	1881560000	1889300000
44	106.68	(4.200)	10	1881570000	1889310000
46	111.76	(4.400)	10	1881580000	1889320000
48	116.84	(4.600)	10	1881590000	1889330000

Pitch 5.00 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
4	5.00	(0.197)	50	1895460000	1883100000
6	10.00	(0.394)	50	1895470000	1883110000
8	15.00	(0.591)	50	1895480000	1883120000
10	20.00	(0.787)	50	1895490000	1883130000
12	25.00	(0.984)	50	1895500000	1883140000
14	30.00	(1.181)	20	1895510000	1883150000
16	35.00	(1.378)	20	1895520000	1883160000
18	40.00	(1.575)	20	1895530000	1883170000
20	45.00	(1.772)	20	1895540000	1883180000
22	50.00	(1.969)	10	1895550000	1883190000
24	55.00	(2.165)	10	1895560000	1883200000
26	60.00	(2.362)	10	1895570000	1883230000
28	65.00	(2.559)	10	1895580000	1883240000
30	70.00	(2.756)	10	1895590000	1883250000
32	75.00	(2.953)	10	1895600000	1883270000
34	80.00	(3.150)	10	1895610000	1883280000
36	85.00	(3.346)	10	1895620000	1883290000
38	90.00	(3.543)	10	1895630000	1883300000
40	95.00	(3.740)	10	1895640000	1883310000
42	100.00	(3.937)	10	1895650000	1883320000
44	105.00	(4.134)	10	1895660000	1883330000
46	110.00	(4.331)	10	1895670000	1883340000
48	115.00	(4.528)	10	1895680000	1883350000

**Accessories**

**Possible colors**

Additional colours on request



**Coding**

See chapter accessories



**Marking strips**

See chapter accessories



**Compartment partition element**

See chapter accessories

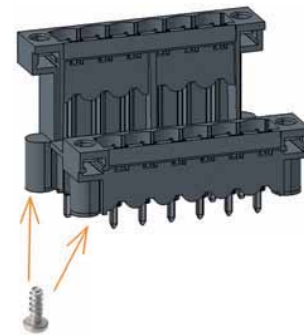


**SLDV-THR 180F**  
**SLDV-THR 180FLF**

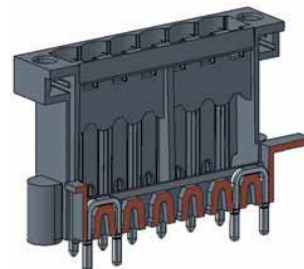
The space-saving SLDVTHR double level male connector complements the reflow-compatible products from Weidmüller. High-temperature-resistant plastics enable the product to be integrated into the reflow soldering process.

This range offers additional fixing to the PCB to resist greater mechanical loads.

1. With screw flanges for additional mechanical fixing to the PCB (see SLDV-THR.../.../..F).



2. With solder flange for fixing to the PCB without screws. Additional solder pins in optimum positions which do not have an electrical function, relieve the mechanical loads on the contact pins. In some applications it is no longer necessary to screw the male connector to the PCB (see SLDV-THR.../.../..FLF).

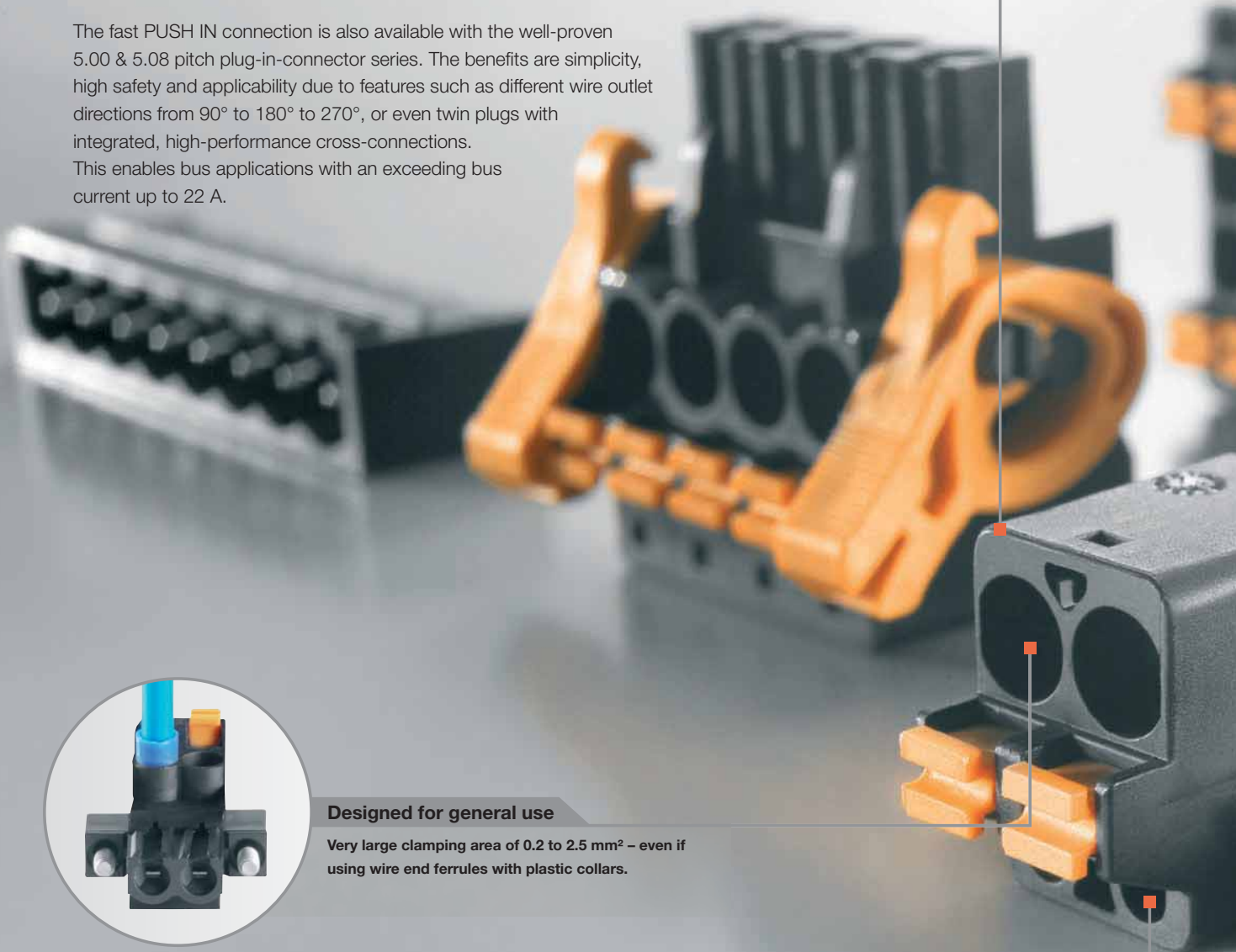


# BLF 5.00/5.08 and BLDF 5.08

## Plug-in connector with PUSH IN connection technology



The fast PUSH IN connection is also available with the well-proven 5.00 & 5.08 pitch plug-in-connector series. The benefits are simplicity, high safety and applicability due to features such as different wire outlet directions from 90° to 180° to 270°, or even twin plugs with integrated, high-performance cross-connections. This enables bus applications with an exceeding bus current up to 22 A.



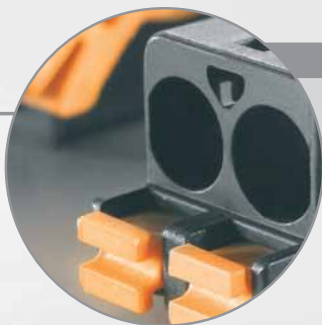
### Designed for general use

Very large clamping area of 0.2 to 2.5 mm<sup>2</sup> – even if using wire end ferrules with plastic collars.



### Designed for easy testing

Easily accessible diagnostic test points resp. convenient test plug sockets simplify function monitoring.



**Designed for perfect handling**

Rounded moulding shapes and large, slip-resistant actuation buttons ensure user-friendly handling.



**Designed for extreme loads**

The integrated cross-connection is optimised for low power loss and, since rated for a powerful bus current of 22 A, also supports a high number of bus devices.

**Designed for fast termination**



**PUSH IN Technology:** tool-less connection through simple insertion of a prepared conductor into the wire entry slot.

**Designed for intuitive operation**



Intuitive opening of the clamping point by clearly visible actuation buttons.

**BLF 5.08/180**  
**BLF 5.00/180**



Socket connectors with time-saving Push In connection technology, covering a clamping range of 0.2 to 2.5 mm even with wire end ferrule, and a straight wire outlet direction (180°). Rounded moulding shapes and enlarged actuation buttons ensure good grip and userfriendly handling of the plug. In addition, the new family of plug-in connectors covers the entire range of mounting options for male connectors, from the standard screw flange to the unique lock-and-release lever. The integrated test point enables fast diagnosis.

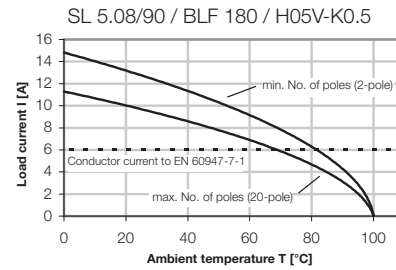
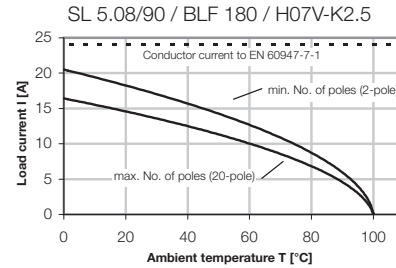
- 0.2-2.5 mm<sup>2</sup> (IEC) / 26-12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 18 A (IEC) / 15 A (UL)

**Technical data**

Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.13 ... 3.31	
Solid H05(07) V-U	mm <sup>2</sup>	0.2 ... 2.5	
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>	0.2 ... 2.5	
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	10	
Screwdriver blade according to norm	mm	0.6 x 3.5	
Tightening torque range	Nm	DIN 5264	
Rated current at ambient temperature			
	A	20 °C	40 °C
		18	16
Overvoltage category			
		III	III
		2	2
Pollution severity			
		3	2
		2	2
Rated voltage	V	250	320
Rated impulse voltage	kV	4	4
UL 1059 rated data – E60693			
		B	C
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor		26-12	
@ CSA C22.2 rated data – LR12400			
		B	C
		B	D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor		26-12	
Material data			
Type of insulating material		PBT	
Flammability class		V-0	
Contact base material		Cu alloy	
Material of contact surface		tinned	
Information			

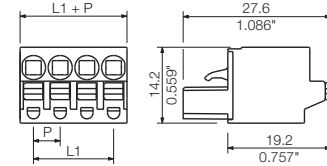
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228 pt1
- Wire end ferrule with plastic collar to DIN 46228 pt4
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**Derating curve**



**BLF 5.08/180**  
**BLF 5.00/180**

without flange



**Ordering data**

Solder pin length					
Colour		orange	black		
Pitch 5.08 mm					
Poles	L1 mm (inch)	Qty.	Order No.	Order No.	
2	5.08 (0.200)	180	1013680000	1013430000	
3	10.16 (0.400)	120	1013690000	1013440000	
4	15.24 (0.600)	90	1013710000	1013450000	
5	20.32 (0.800)	72	1013720000	1013460000	
6	25.40 (1.000)	60	1013730000	1013470000	
7	30.48 (1.200)	48	1013740000	1013480000	
8	35.56 (1.400)	42	1013750000	1013490000	
9	40.64 (1.600)	36	1013760000	1013510000	
10	45.72 (1.800)	36	1013770000	1013520000	
11	50.80 (2.000)	30	1013780000	1013530000	
12	55.88 (2.200)	30	1013790000	1013540000	
13	60.96 (2.400)	24	1013810000	1013550000	
14	66.04 (2.600)	24	1013820000	1013560000	
15	71.12 (2.800)	24	1013830000	1013570000	
16	76.20 (3.000)	18	1013840000	1013580000	
17	81.28 (3.200)	18	1013850000	1013590000	
18	86.36 (3.400)	18	1013860000	1013610000	
19	91.44 (3.600)	18	1013870000	1013620000	
20	96.52 (3.800)	18	1013880000	1013630000	
21	101.60 (4.000)	12	1013890000	1013640000	
22	106.68 (4.200)	12	1013910000	1013650000	
23	111.76 (4.400)	12	1013920000	1013660000	
24	116.84 (4.600)	12	1013930000	1013670000	

Pitch 5.00 mm					
Poles	L1 mm (inch)	Qty.	Order No.	Order No.	
2	5.00 (0.197)	180	1017860000	1017670000	
3	10.00 (0.394)	120	1017870000	1017680000	
4	15.00 (0.591)	90	1017880000	1017690000	
5	20.00 (0.787)	72	1017890000	1017710000	
6	25.00 (0.984)	60	1017910000	1017720000	
7	30.00 (1.181)	48	1017920000	1017730000	
8	35.00 (1.378)	42	1017930000	1017740000	
9	40.00 (1.575)	36	1017950000	1017750000	
10	45.00 (1.772)	36	1017960000	1017760000	
11	50.00 (1.969)	30	1017970000	1017770000	
12	55.00 (2.165)	30	1017980000	1017780000	
13	60.00 (2.362)	24	1017990000	1017790000	
14	65.00 (2.559)	24	1018010000	1017810000	
15	70.00 (2.756)	24	1018020000	1017820000	
16	75.00 (2.953)	18	1018030000	1017830000	
17	80.00 (3.150)	18	1018040000	1017840000	
18	85.00 (3.346)	18	1018050000	1017850000	





**BLF 5.08/90**  
**BLF 5.00/90**



Socket connectors with time-saving Push In connection technology, covering a clamping range of 0.2 to 2.5 mm even with wire end ferrule, and an upside angled wire outlet direction (90°). Rounded moulding shapes and enlarged actuation buttons ensure good grip and userfriendly handling of the plug. In addition, the new family of plug-in connectors covers the entire range of mounting options for male connectors, from the standard screw flange to the unique lock-and-release lever. The integrated test point enables fast diagnosis.

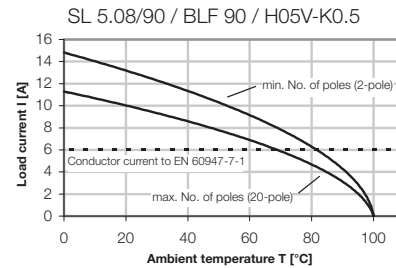
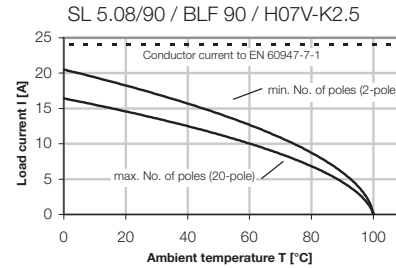
- 0.2-2,5 mm<sup>2</sup> (IEC) / 26-12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 18 A (IEC) / 15 A (UL)

**Technical data**

Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.13 ... 3.31	
Solid H05(07) V-U	mm <sup>2</sup>	0.2 ... 2.5	
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>	0.2 ... 2.5	
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	10	
Screwdriver blade according to norm	mm	0.6 x 3.5	
Tightening torque range	Nm	DIN 5264	
Rated current at ambient temperature			
	A	20 °C	40 °C
		18	16
Overvoltage category			
		III	III II
Pollution severity			
		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL 1059 rated data – E60693			
		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor		26–12	
@ CSA C22.2 rated data – LR12400			
		B	B C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor		26–12	
Material data			
Type of insulating material		PBT	
Flammability class		V-0	
Contact base material		Cu alloy	
Material of contact surface		tinned	
Information			

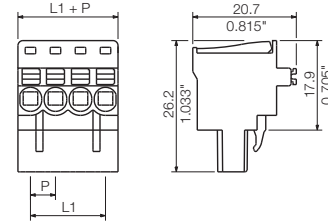
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228 pt1
- Wire end ferrule with plastic collar to DIN 46228 pt4
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**Derating curve**



**BLF 5.08/90**  
**BLF 5.00/90**

without flange



**Ordering data**

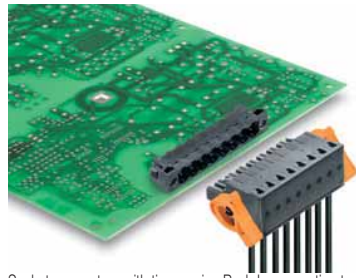
Solder pin length			
Colour	orange	black	

Pitch 5.08 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	180	1001530000	1000030001
3	10.16	(0.400)	120	1001540000	1000040001
4	15.24	(0.600)	90	1001550000	1000050001
5	20.32	(0.800)	72	1001560000	1000060001
6	25.40	(1.000)	60	1001570000	1000070001
7	30.48	(1.200)	48	1001580000	1000080001
8	35.56	(1.400)	42	1001590000	1000090001
9	40.64	(1.600)	36	1001600000	1000100001
10	45.72	(1.800)	36	1001620000	1000110001
11	50.80	(2.000)	30	1001630000	1000120001
12	55.88	(2.200)	30	1001640000	1000130001
13	60.96	(2.400)	24	1001640000	1000140001
14	66.04	(2.600)	24	1001650000	1000150001
15	71.12	(2.800)	24	1001660000	1000160001
16	76.20	(3.000)	18	1001670000	1000170001
17	81.28	(3.200)	18	1001680000	1000180001
18	86.36	(3.400)	18	1001690000	1000190001
19	91.44	(3.600)	18	1001700000	1000200001
20	96.52	(3.800)	18	1001710000	1000210001

Pitch 5.00 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.00	(0.197)	180	1980170000	1979270000
3	10.00	(0.394)	120	1980180000	1979280000
4	15.00	(0.591)	90	1980190000	1979290000
5	20.00	(0.787)	72	1980200000	1979300000
6	25.00	(0.984)	60	1980210000	1979310000
7	30.00	(1.181)	48	1980220000	1979320000
8	35.00	(1.378)	42	1980230000	1979330000
9	40.00	(1.575)	36	1980240000	1979340000
10	45.00	(1.772)	36	1980250000	1979350000
11	50.00	(1.969)	30	1980260000	1979360000
12	55.00	(2.165)	30	1980270000	1979370000
13	60.00	(2.362)	24	1980280000	1979380000
14	65.00	(2.559)	24	1980290000	1979390000
15	70.00	(2.756)	24	1980300000	1979400000
16	75.00	(2.953)	18	1980310000	1979410000
17	80.00	(3.150)	18	1980320000	1979420000
18	85.00	(3.346)	18	1980330000	1979430000
19	90.00	(3.543)	18	1980340000	1979440000
20	95.00	(3.740)	18	1980360000	1979450000



BLF 5.08/270



Socket connectors with time-saving Push In connection technology, covering a clamping range of 0.2 to 2.5 mm even with wire end ferrule, and a bottomside angled wire outlet direction (270°). Rounded moulding shapes and enlarged actuation buttons ensure good grip and userfriendly handling of the plug. In addition, the new family of plug-in connectors covers the entire range of mounting options for male connectors, from the standard screw flange to the unique lock-and-release lever. The integrated test point enables fast diagnosis.

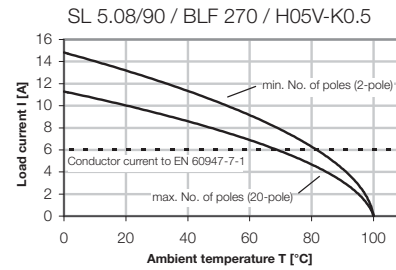
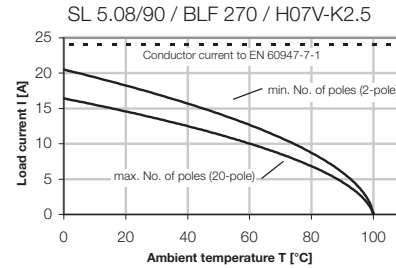
- 0,2-2,5 mm<sup>2</sup> (IEC) / 26-12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 18 A (IEC) / 15 A (UL)

Technical data

Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.13 ... 3.31	
Solid H05(07) V-U	mm <sup>2</sup>	0.2 ... 2.5	
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>	0.2 ... 2.5	
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	10	
Screwdriver blade according to norm	mm	0.6 x 3.5	
Tightening torque range	Nm	DIN 5264	
Rated current at ambient temperature			
	A	20 °C	40 °C
		18	16
Overvoltage category			
		III	III II
Pollution severity			
		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL 1059 rated data – E60693			
		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor		26–12	
@ CSA C22.2 rated data – LR12400			
		B	B C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor		26–12	
Material data			
Type of insulating material		PBT	
Flammability class		V-0	
Contact base material		Cu alloy	
Material of contact surface		tinned	
Information			

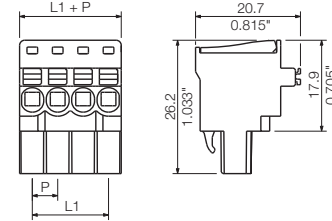
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228 pt1
- Wire end ferrule with plastic collar to DIN 46228 pt4
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Derating curve



BLF 5.08/270

without flange

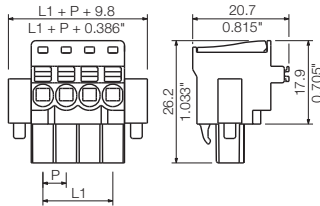


Ordering data

Solder pin length		Colour	
		orange	black
Pitch 5.08 mm			
Poles	L1 mm (inch)	Qty.	Order No.
2	5.08 (0.200)	180	1982700000
3	10.16 (0.400)	120	1982710000
4	15.24 (0.600)	90	1982720000
5	20.32 (0.800)	72	1982730000
6	25.40 (1.000)	60	1982740000
7	30.48 (1.200)	48	1982750000
8	35.56 (1.400)	42	1982760000
9	40.64 (1.600)	36	1982770000
10	45.72 (1.800)	36	1982780000
11	50.80 (2.000)	30	1982790000
12	55.88 (2.200)	30	1982800000
13	60.96 (2.400)	24	1982810000
14	66.04 (2.600)	24	1982820000
15	71.12 (2.800)	24	1982830000
16	76.20 (3.000)	18	1982840000
17	81.28 (3.200)	18	1982850000
18	86.36 (3.400)	18	1982860000
19	91.44 (3.600)	18	1982870000
20	96.52 (3.800)	18	1982880000

**BLF 5.08/270F**

with flange

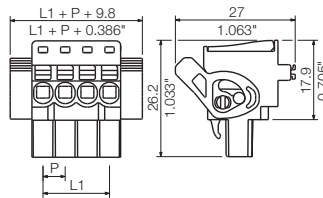


**Ordering data**

Solder pin length					
Colour					
Pitch 5.08 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	90	1982890000	1982120000
3	10.16	(0.400)	72	1982900000	1982130000
4	15.24	(0.600)	60	1982910000	1982140000
5	20.32	(0.800)	48	1982920000	1982150000
6	25.40	(1.000)	42	1982930000	1982160000
7	30.48	(1.200)	36	1982940000	1982170000
8	35.56	(1.400)	36	1982950000	1982180000
9	40.64	(1.600)	30	1982960000	1982190000
10	45.72	(1.800)	30	1982970000	1982200000
11	50.80	(2.000)	24	1982980000	1982210000
12	55.88	(2.200)	24	1982990000	1982220000
13	60.96	(2.400)	24	1983000000	1982230000
14	66.04	(2.600)	18	1983010000	1982240000
15	71.12	(2.800)	18	1983020000	1982250000
16	76.20	(3.000)	18	1983030000	1982260000
17	81.28	(3.200)	18	1983040000	1982270000
18	86.36	(3.400)	18	1983050000	1982280000
19	91.44	(3.600)	12	1983060000	1982290000
20	96.52	(3.800)	12	1983070000	1982300000

**BLF 5.08/270LH**

with release lever

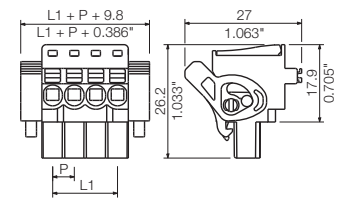


**Ordering data**

Solder pin length					
Colour					
Pitch 5.08 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	90	1983270000	1982500000
3	10.16	(0.400)	72	1983280000	1982510000
4	15.24	(0.600)	60	1983290000	1982520000
5	20.32	(0.800)	48	1983300000	1982530000
6	25.40	(1.000)	42	1983310000	1982540000
7	30.48	(1.200)	36	1983320000	1982560000
8	35.56	(1.400)	36	1983330000	1982570000
9	40.64	(1.600)	30	1983340000	1982580000
10	45.72	(1.800)	30	1983350000	1982590000
11	50.80	(2.000)	24	1983360000	1982600000
12	55.88	(2.200)	24	1983370000	1982610000
13	60.96	(2.400)	24	1983380000	1982620000
14	66.04	(2.600)	18	1983390000	1982630000
15	71.12	(2.800)	18	1983400000	1982640000
16	76.20	(3.000)	18	1983410000	1982650000
17	81.28	(3.200)	18	1983420000	1982660000
18	86.36	(3.400)	18	1983430000	1982670000
19	91.44	(3.600)	12	1983440000	1982680000
20	96.52	(3.800)	12	1983450000	1982690000

**BLF 5.08/270LR**

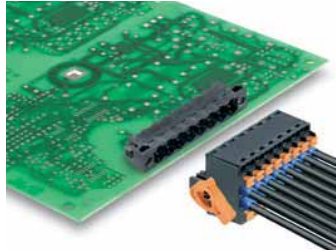
with release bar



**Ordering data**

Solder pin length					
Colour					
Pitch 5.08 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	90	1983080000	1982310000
3	10.16	(0.400)	72	1983090000	1982320000
4	15.24	(0.600)	60	1983100000	1982330000
5	20.32	(0.800)	48	1983110000	1982340000
6	25.40	(1.000)	42	1983120000	1982350000
7	30.48	(1.200)	36	1983130000	1982360000
8	35.56	(1.400)	36	1983140000	1982370000
9	40.64	(1.600)	30	1983150000	1982380000
10	45.72	(1.800)	30	1983160000	1982390000
11	50.80	(2.000)	24	1983170000	1982400000
12	55.88	(2.200)	24	1983180000	1982410000
13	60.96	(2.400)	24	1983190000	1982420000
14	66.04	(2.600)	18	1983200000	1982430000
15	71.12	(2.800)	18	1983210000	1982440000
16	76.20	(3.000)	18	1983220000	1982450000
17	81.28	(3.200)	18	1983230000	1982460000
18	86.36	(3.400)	18	1983240000	1982470000
19	91.44	(3.600)	12	1983250000	1982480000
20	96.52	(3.800)	12	1983260000	1982490000

**BLDF 5.08/180**



Socket blocks with two connections per pole; saves time with the PUSH IN connection system. The extremely short cross-connection enables you to safely loop through bus currents of up to 22 A. The BLDF allows individual modules to be disconnected from the network without interruption. The product's rounded outer edges and a larger slider mechanism provide you with a comfortable feel and safe handling. The integrated test point allows you to perform manual diagnostics quickly.

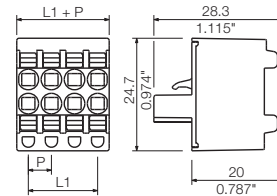
**Technical data**

Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.13 ... 3.31	
Solid H05(07) V-U	mm <sup>2</sup>	0.2 ... 2.5	
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>	0.2 ... 2.5	
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	10	
Screwdriver blade according to norm	mm	0.6 x 3.5 DIN 5264	
Tightening torque range	Nm		
Rated current at ambient temperature			
		20 °C	40 °C
Overvoltage category			
		III	II
Pollution severity			
		3	2
Rated voltage	V	250	320
Rated impulse voltage	kV	4	4
UL 1059 rated data – E60693			
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor		26–12	
@ CSA C22.2 rated data – LR12400			
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor		26–12	
Material data			
Type of insulating material		PBT	
Flammability class		V-0	
Contact base material		Cu alloy	
Material of contact surface		tinned	
Information			

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228 pt1
- Wire end ferrule with plastic collar to DIN 46228 pt4
- P on drg. = 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.

**BLDF 5.08/180**

without flange

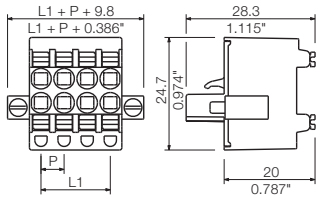


**Ordering data**

Solder pin length		Colour		Order No.	Order No.
		orange	black		
Pitch 5.08 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	180	1001150000	1000860000
3	10.16	(0.400)	120	1001160000	1000870000
4	15.24	(0.600)	90	1001170000	1000880000
5	20.32	(0.800)	72	1001180000	1000890000
6	25.40	(1.000)	60	1001190000	1000900000
7	30.48	(1.200)	48	1001200000	1000910000
8	35.56	(1.400)	42	1001210000	1000920000

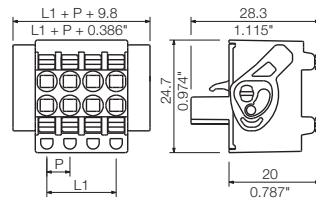
**BLDF 5.08/180F**

with flange



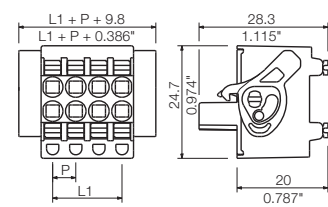
**BLDF 5.08/180LH**

with release lever



**BLDF 5.08/180LR**

with release bar



**Ordering data**

Solder pin length					
Colour					
Pitch 5.08 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	90	1001220000	1000930000
3	10.16	(0.400)	72	1012060000	1000950000
4	15.24	(0.600)	60	1059420000	1000960000
5	20.32	(0.800)	48	1065080000	1000970000
6	25.40	(1.000)	42	1065090000	1000980000
7	30.48	(1.200)	36	1065110000	1000990000
8	35.56	(1.400)	36	1065120000	1001000000

**Ordering data**

Solder pin length					
Colour					
Pitch 5.08 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	90	1065210000	1001080000
3	10.16	(0.400)	72	1065220000	1001090000
4	15.24	(0.600)	60	1065230000	1001100000
5	20.32	(0.800)	48	1065240000	1001110000
6	25.40	(1.000)	42	1065250000	1001120000
7	30.48	(1.200)	36	1065260000	1001130000
8	35.56	(1.400)	36	1065270000	1001140000

**Ordering data**

Solder pin length					
Colour					
Pitch 5.08 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	90	1065130000	1001010000
3	10.16	(0.400)	72	1065140000	1001020000
4	15.24	(0.600)	60	1065150000	1001030000
5	20.32	(0.800)	48	1065160000	1001040000
6	25.40	(1.000)	42	1065170000	1001050000
7	30.48	(1.200)	36	1065180000	1001060000
8	35.56	(1.400)	36	1065190000	1001070000

Accessories

Ferrules according to DIN 46228 part 4



Type	Order No.
H0.5/14S (white)	9004590000
H1.0/14S (red)	9018560000
H1.5/14S (black)	9025240000
H2.5/14S (blue)	1333100000

Possible colors



Coding



Marking strips



Screwdriver

Order No. 9008390000



Crimping tool PZ 6/5

Order No. 9011460000



For detailed information, please refer to our main catalogue, editions 2 and 6 (tools)

LH release lever  
LR release bar

In confined space it is often difficult to gain access to and grab the plug-in connectors. In order to be able to separate male and female connectors easily, Weidmüller has developed special connectors with a release lever. The release lever has to be braced against a surface in order to operate properly. This is achieved by using male connectors with a fixed angle, or devices with a suitably designed front panel. The lever can be operated either by hand or with a screwdriver.

plugged in



released



In addition to its release function, the release bar, in combination with the angle versions of the SL-SMT male connectors, also has a „locking“ function. After the connector has been plugged in, the release bar is locked. Releasing this enables the plug-in connector to be easily separated again. The lever can be operated either by hand or with a screwdriver.

locked



released



PUSH IN connection technology

PUSH IN connection technology reduces the wiring efforts especially for solid wires and wires with ferrule to a minimum. These connectors are self-explanatory and enable tool-less handling. The contact element made of stainless steel ensures a vibration proofed, maintenance free wire termination. The established principle „STEEL FOR THE FORCE, COPPER FOR THE CURRENT“ by Weidmüller offers both, maximum conductor clamping forces, as well as minimum power loss at the same time.


























The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level. Hybride means, that we combine metal material featuring different characteristics by welding, in order to divide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it's even both - perfect for the current, and perfect for the force.






























































Product type		BLF 5.0X /180	BLF 5.0X /180F	BLF 5.0X /180LH	BLF 5.0X /180LR
SL-SMT 5.0X* /90	 SL-SMT 5.0X* /180 	●			
SL-SMT 5.0X* /90G	 SL-SMT 5.0X* /180G 	●			
SL-SMT 5.0X* /90F	 SL-SMT 5.0X* /180F 		●	●	●
SL-SMT 5.0X* /90LF	 SL-SMT 5.0X* /180LF 		●	●	●
SL-SMT 5.08 /270GL		●			
SL-SMT 5.08 /270GH		●			
SL-SMT 5.08 /270FL			●	●	●
SL-SMT 5.08 /270FH			●	●	●
SL-SMaT 5.08 /90		●			
SL-SMaT 5.08 /180		●			
SLDV-THR 5.00 /180G		●			
SLDV-THR 5.00 /180GLF		●			
SLDV-THR 5.0X* /180F			●	●	●
SLDV-THR 5.00 /180FLF			●	●	●
SL-5.0X* /90	 SL-5.0X* /180 	●			
SL-5.0X* /90B	 SL-5.0X* /180B 	●			
SL-5.0X* /90B (F)	 SL-5.0X* /180B (F) 		●	●	
SLDF 5.08		●			
SLS 5.08 /180B		●			
SLS 5.08 /180B (F)			●	●	
SLS 5.08 /180B (FI)					
SLT 5.08B		●			
SLT 5.08B (F)			●	●	
SLZF 5.08 /180B		●			
SLZF 5.08 /180B (F)			●	●	
SLZF 5.08 /180B (FI)					

\* 5.0X = Pitch 5.00 and 5.08

## BLF and BLDF 5.0x


































Product type		BLF 5.0X/90	BLF 5.0X/90F	BLF 5.0X/90LH	BLF 5.0X/90LR
SL-SMT 5.0X* /90	 SL-SMT 5.0X* /180 	●			
SL-SMT 5.0X* /90G	 SL-SMT 5.0X* /180G 	●			
SL-SMT 5.0X* /90F	 SL-SMT 5.0X* /180F 		●	●	●
SL-SMT 5.0X* /90LF	 SL-SMT 5.0X* /180LF 		●	●	●
SL-SMT 5.08 /270GL		●			
SL-SMT 5.08 /270GH		●			
SL-SMT 5.08 /270FL			●	●	●
SL-SMT 5.08 /270FH			●	●	●
SL-SMaRT 5.08 /90		●			
SL-SMaRT 5.08 /180		●			
SLDV-THR 5.00 /180G		●			
SLDV-THR 5.00 /180GLF		●			
SLDV-THR 5.0X* /180F			●	●	●
SLDV-THR 5.00 /180FLF			●	●	●
SL-5.0X* /90	 SL-5.0X* /180 	●			
SL-5.0X* /90B	 SL-5.0X* /180B 	●			
SL-5.0X* /90B (F)	 SL-5.0X* /180B (F) 		●	●	
SLDF 5.08		●			
SLS 5.08 /180B		●			
SLS 5.08 /180B (F)			●	●	
SLS 5.08 /180B (FI)					
SLT 5.08B		●			
SLT 5.08B (F)			●	●	
SLZF 5.08 /180B		●			
SLZF 5.08 /180B (F)			●	●	
SLZF 5.08 /180B (FI)					

\* 5.0X = Pitch 5.00 and 5.08

Product type		BLF 5.0X /270	BLF 5.0X /270F	BLF 5.0X /270LH	BLF 5.0X /270LR
SL-SMT 5.0X* /90	 SL-SMT 5.0X* /180 	●			
SL-SMT 5.0X* /90G	 SL-SMT 5.0X* /180G 	●			
SL-SMT 5.0X* /90F	 SL-SMT 5.0X* /180F 		●	●	●
SL-SMT 5.0X* /90LF	 SL-SMT 5.0X* /180LF 		●	●	●
SL-SMT 5.08 /270GL		●			
SL-SMT 5.08 /270GH		●			
SL-SMT 5.08 /270FL			●	●	●
SL-SMT 5.08 /270FH			●	●	●
SL-SMaRT 5.08 /90		●			
SL-SMaRT 5.08 /180		●			
SLDV-THR 5.00 /180G					
SLDV-THR 5.00 /180GLF					
SLDV-THR 5.0X* /180F					
SLDV-THR 5.00 /180FLF					
SL-5.0X* /90	 SL-5.0X* /180 	●			
SL-5.0X* /90B	 SL-5.0X* /180B 	●			
SL-5.0X* /90B (F)	 SL-5.0X* /180B (F) 		●	●	
SLDF 5.08		●			
SLS 5.08 /180B		●			
SLS 5.08 /180B (F)			●	●	
SLS 5.08 /180B (FI)					
SLT 5.08B		●			
SLT 5.08B (F)			●	●	
SLZF 5.08 /180B		●			
SLZF 5.08 /180B (F)			●	●	
SLZF 5.08 /180B (FI)					

\* 5.0X = Pitch 5.00 and 5.08

## BLF and BLDF 5.0x

Product type		BLDF 5.0X/180	BLDF 5.0X/180F	BLDF 5.0X/180LH	BLDF 5.0X/180LR
SL-SMT 5.0X* /90	 SL-SMT 5.0X* /180 	●			
SL-SMT 5.0X* /90G	 SL-SMT 5.0X* /180G 	●			
SL-SMT 5.0X* /90F	 SL-SMT 5.0X* /180F 		●	●	●
SL-SMT 5.0X* /90LF	 SL-SMT 5.0X* /180LF 		●	●	●
SL-SMT 5.08 /270GL		●			
SL-SMT 5.08 /270GH		●			
SL-SMT 5.08 /270FL			●	●	●
SL-SMT 5.08 /270FH			●	●	●
SL-SMaRT 5.08 /90		●			
SL-SMaRT 5.08 /180		●			
SLDV-THR 5.00 /180G					
SLDV-THR 5.00 /180GLF					
SLDV-THR 5.0X* /180F					
SLDV-THR 5.00 /180FLF					
SL-5.0X* /90	 SL-5.0X* /180 	●			
SL-5.0X* /90B	 SL-5.0X* /180B 	●			
SL-5.0X* /90B (F)	 SL-5.0X* /180B (F) 		●	●	
SLDF 5.08		●			
SLS 5.08 /180B		●			
SLS 5.08 /180B (F)			●	●	
SLS 5.08 /180B (FI)					
SLT 5.08B		●			
SLT 5.08B (F)			●	●	
SLZF 5.08 /180B		●			
SLZF 5.08 /180B (F)			●	●	
SLZF 5.08 /180B (FI)					

\* 5.0X = Pitch 5.00 and 5.08



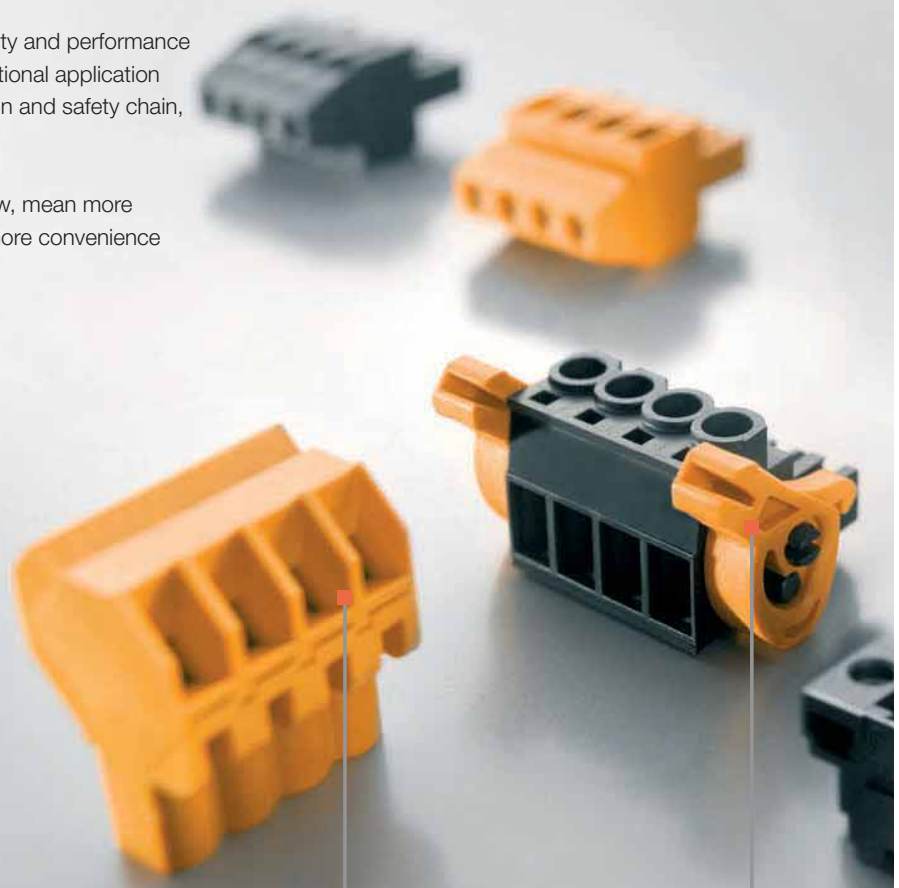
# BLZP 5.00/5.08

## Pluggable, universal screw connection

The BLZP is the functional extension of the BLZ series, which has proven itself on the market for decades.

The "P" in the part name stands for a plus in security and performance in processing and use. Resulting from this are additional application and user benefits, such as an uninterrupted function and safety chain, increased efficiency or a plainly high usability.

In total, the advantages in detail as described below, mean more safety and reliability to the application, as well as more convenience and less efforts to the user.



### Error-free wiring – safe connection

The integrated "wire guard" feature prevents from dangerous miswiring, such as inserting a cable below the yoke, and thus protects against the risk of invisible fusing contact.



### Securely lock – easily release

Fast and tool-less, self-securing interlocking to the pin header, intuitive, visual locking status plus smooth releasing of the plug-connector enables an intuitive, safe and convenient handling.

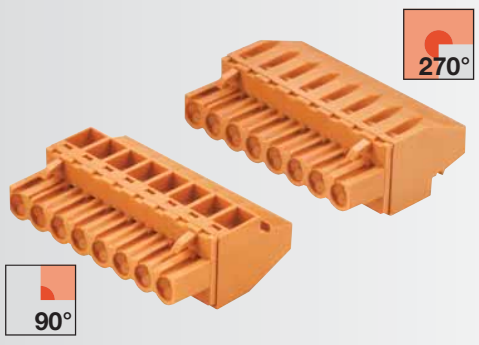


**Reliable contacting – universal operation**

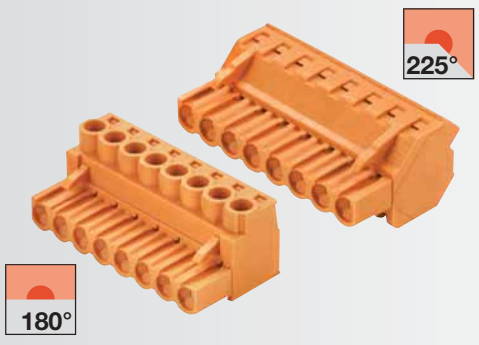
The multi-tool-suitable, globally compatible screw head – for force-fit, and intuitive actuation by common flat- or cross-headed hand tools or even the efficient use of power tools.



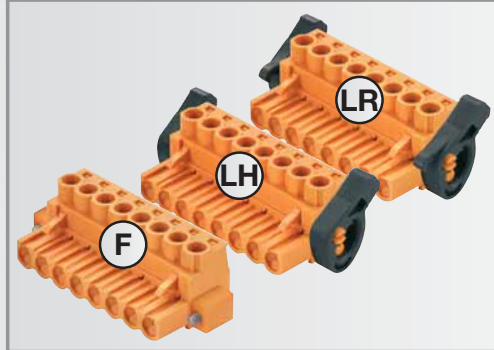
**Wire outlet direction**



**Wire outlet direction**



**Fastening options**



F = screw flange / LH = release lever / LR = lock'n release lever

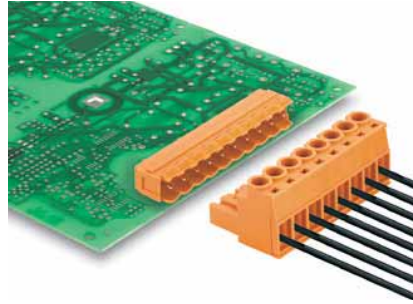


**Process-compatible by default – economical processing**

Unpack – “Wire Ready” – Connect. The time- and cost saving “Wire Ready” technology ensures that each single clamping yoke is fully open on delivery, even after world-wide shipping.

## BLZP 5.0x

### BLZP 5.08/180 BLZP 5.00/180



Socket connectors with screw connection with screw clamp technology for straight conductor connection (180°). Even safer and more efficient through multitool-(+/-) screws, conductor miswiring protection and prepared = open clamping yoke („wire-ready“). The BLZP series can optionally be labelled, coded as well as securely locked to the mating component with a screw flange or lock'n release lever.

- 0.2-2.5 mm<sup>2</sup> (IEC) / 26-12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 18.5 A (IEC) / 15 A (UL)

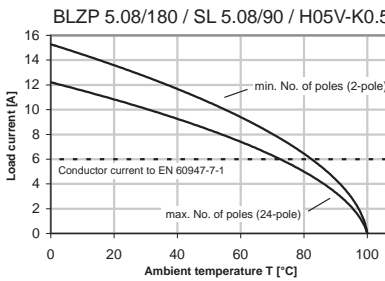
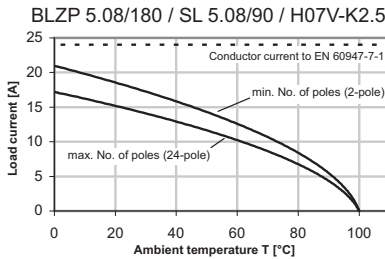
#### Technical data

Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.13...4	
Solid H05(07) V-U	mm <sup>2</sup>	0.2...4	
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>	0.2...4	
Flexible with ferrule	mm <sup>2</sup>	0.2...4	
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 at ambient temperature			
		20 °C	40 °C
	A	18.5	16
Overvoltage category			
		III	III
Pollution severity			
		3	2
Rated voltage			
	V	250	320
Rated impulse voltage			
	kV	4	4
UL 1059 rated data			
		B	C
@ CSA C22.2 rated data			
		B	C
Material data			
Type of insulating material		PBT	
Flammability class acc. UL94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	

#### Information

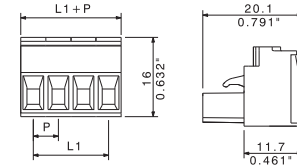
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228 pt1
- Wire end ferrule with plastic collar to DIN 46228 pt4
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

#### Derating curve



### BLZP 5.08/180 BLZP 5.00/180

Can be mounted side-by-side without sacrificing any poles



#### Ordering data

Solder pin length		Colour of plastic	
		orange	black

Pitch 5.08 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	180	1943580000	1943810000
3	10.16	(0.400)	120	1943590000	1943820000
4	15.24	(0.600)	90	1943600000	1943830000
5	20.32	(0.800)	72	1943610000	1943840000
6	25.40	(1.000)	60	1943620000	1943850000
7	30.48	(1.200)	48	1943630000	1943860000
8	35.56	(1.400)	42	1943640000	1943870000
9	40.64	(1.600)	36	1943650000	1943880000
10	45.72	(1.800)	36	1943660000	1943890000
11	50.80	(2.000)	30	1943670000	1943900000
12	55.88	(2.200)	30	1943680000	1943910000
13	60.96	(2.400)	24	1943690000	1943920000
14	66.04	(2.600)	24	1943700000	1943930000
15	71.12	(2.800)	24	1943710000	1943940000
16	76.20	(3.000)	18	1943720000	1943950000
17	81.28	(3.200)	18	1943730000	1943960000
18	86.36	(3.400)	18	1943740000	1943970000
19	91.44	(3.600)	18	1943750000	1943980000
20	96.52	(3.800)	18	1943760000	1943990000
21	101.60	(4.000)	12	1943770000	1944000000
22	106.68	(4.200)	12	1943780000	1944010000
23	111.76	(4.400)	12	1943790000	1944020000
24	116.84	(4.600)	12	1943800000	1944030000

Pitch 5.00 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.00	(0.197)	180	1954490000	1955570000
3	10.00	(0.394)	120	1954480000	1955560000
4	15.00	(0.591)	90	1954470000	1955550000
5	20.00	(0.787)	72	1954460000	1955540000
6	25.00	(0.984)	60	1954450000	1955530000
7	30.00	(1.181)	48	1954440000	1955520000
8	35.00	(1.378)	42	1954430000	1955510000
9	40.00	(1.575)	36	1954420000	1955500000
10	45.00	(1.772)	36	1954410000	1955490000
11	50.00	(1.969)	30	1954400000	1955480000
12	55.00	(2.165)	30	1954390000	1955470000
13	60.00	(2.362)	24	1954380000	1955460000
14	65.00	(2.559)	24	1954370000	1955450000
15	70.00	(2.756)	24	1954360000	1955440000
16	75.00	(2.953)	18	1954350000	1955430000
17	80.00	(3.150)	18	1954340000	1955420000
18	85.00	(3.346)	18	1954330000	1955410000
19	90.00	(3.543)	18	1954320000	1955400000
20	95.00	(3.740)	18	1954310000	1955390000
21	100.00	(3.937)	12	1954290000	1955380000
22	105.00	(4.134)	12	1954280000	1955370000
23	110.00	(4.331)	12	1954270000	1955360000
24	115.00	(4.528)	12	1954260000	1955350000





## BLZP 5.0x

### BLZP 5.08/90 BLZP 5.00/90



Socket connectors with screw connection with screw clamp technology for rectangular conductor connection (90°). Even safer and more efficient through multitool-(+/-) screws, conductor miswiring protection and prepared = open clamping yoke („wire-ready“). The BLZP series can optionally be labelled, coded as well as securely locked to the mating component with a screw flange or lock'n release lever.

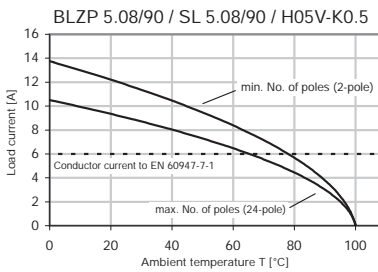
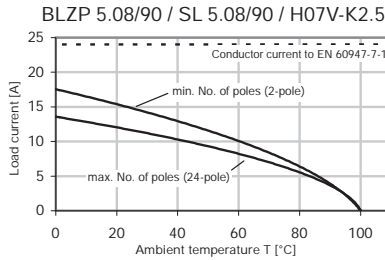
- 0.2-2.5 mm<sup>2</sup> (IEC) / 26-12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 15 A (IEC) / 10 A (UL)

#### Technical data

Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.13...4	
Solid H05(07) V-U	mm <sup>2</sup>	0.2...4	
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>	0.2...4	
Flexible with ferrule	mm <sup>2</sup>	0.2...4	
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			
at ambient temperature			
	A	20 °C	40 °C
		15	12
Overvoltage category			
		III	III II
Pollution severity			
		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL 1059 rated data			
		B	C D
Nominal voltage	V	300	300
Rated current	A	15	10
AWG conductor		26-12	
CSA C22.2 rated data			
		B	C D
Nominal voltage	V	300	300
Rated current	A	10	10
AWG conductor		26-12	
Material data			
Type of insulating material		PBT	
Flammability class acc. UL94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Information			

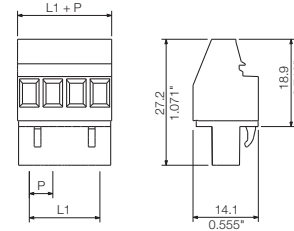
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228 pt1
- Wire end ferrule with plastic collar to DIN 46228 pt4
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

#### Derating curve



### BLZP 5.08/90 BLZP 5.00/90

Can be mounted side-by-side without sacrificing any poles



#### Ordering data

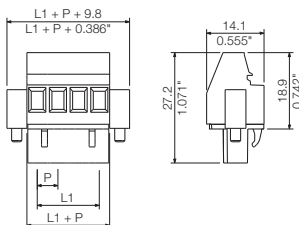
Solder pin length		Colour of plastic	
		orange	black

Pitch 5.08 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.00	(0.197)	180	1948000000	1948240000
3	10.00	(0.394)	120	1948010000	1948250000
4	15.00	(0.591)	90	1948020000	1948260000
5	20.00	(0.787)	72	1948030000	1948270000
6	25.00	(0.984)	60	1948040000	1948280000
7	30.00	(1.181)	48	1948050000	1948290000
8	35.00	(1.378)	42	1948060000	1948300000
9	40.00	(1.575)	36	1948070000	1948310000
10	45.00	(1.772)	36	1948080000	1948320000
11	50.00	(1.969)	30	1948100000	1948330000
12	55.00	(2.165)	30	1948110000	1948340000
13	60.00	(2.362)	24	1948120000	1948350000
14	65.00	(2.559)	24	1948130000	1948360000
15	70.00	(2.756)	24	1948140000	1948370000
16	75.00	(2.953)	18	1948150000	1948380000
17	80.00	(3.150)	18	1948160000	1948390000
18	85.00	(3.346)	18	1948170000	1948400000
19	90.00	(3.543)	18	1948180000	1948410000
20	95.00	(3.740)	18	1948190000	1948420000
21	100.00	(3.937)	12	1948200000	1948430000
22	105.00	(4.134)	12	1948210000	1948440000
23	110.00	(4.331)	12	1948220000	1948450000
24	115.00	(4.528)	12	1948230000	1948460000

Pitch 5.00 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.00	(0.197)	180	1958300000	1958650000
3	10.00	(0.394)	120	1958290000	1958640000
4	15.00	(0.591)	90	1958280000	1958630000
5	20.00	(0.787)	72	1958270000	1958620000
6	25.00	(0.984)	60	1958260000	1958610000
7	30.00	(1.181)	48	1958250000	1958600000
8	35.00	(1.378)	42	1958230000	1958590000
9	40.00	(1.575)	36	1958190000	1958580000
10	45.00	(1.772)	36	1958160000	1958570000
11	50.00	(1.969)	30	1958130000	1958560000
12	55.00	(2.165)	30	1958120000	1958550000
13	60.00	(2.362)	24	1958090000	1958540000
14	65.00	(2.559)	24	1958060000	1958530000
15	70.00	(2.756)	24	1958040000	1958520000
16	75.00	(2.953)	18	1957960000	1958480000
17	80.00	(3.150)	18	1957910000	1958460000
18	85.00	(3.346)	18	1957900000	1958430000
19	90.00	(3.543)	18	1957880000	1958420000
20	95.00	(3.740)	18	1957850000	1958400000
21	100.00	(3.937)	12	1957830000	1958380000
22	105.00	(4.134)	12	1957820000	1958360000
23	110.00	(4.331)	12	1957800000	1958340000
24	115.00	(4.528)	12	1957780000	1958310000

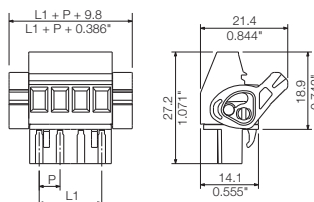
**BLZP 5.08/90F**  
**BLZP 5.00/90F**

with screw flange



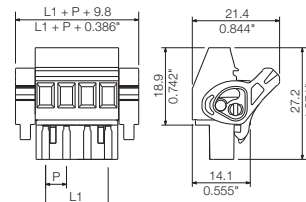
**BLZP 5.08/90LH**  
**BLZP 5.00/90LH**

with release lever



**BLZP 5.08/90LR**  
**BLZP 5.00/90LR**

with release bar



**Ordering data**

Solder pin length		
Colour of plastic	<input type="checkbox"/> orange	<input type="checkbox"/> black

**Pitch 5.08 mm**

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	90	1949800000	1950040000
3	10.16	(0.400)	72	1949810000	1950050000
4	15.24	(0.600)	60	1949820000	1950060000
5	20.32	(0.800)	48	1949830000	1950070000
6	25.40	(1.000)	42	1949840000	1950080000
7	30.48	(1.200)	36	1949850000	1950090000
8	35.56	(1.400)	36	1949860000	1950100000
9	40.64	(1.600)	30	1949870000	1950110000
10	45.72	(1.800)	30	1949880000	1950120000
11	50.80	(2.000)	24	1949890000	1950130000
12	55.88	(2.200)	24	1949900000	1950140000
13	60.96	(2.400)	24	1949910000	1950150000
14	66.04	(2.600)	18	1949920000	1950160000
15	71.12	(2.800)	18	1949930000	1950170000
16	76.20	(3.000)	18	1949940000	1950180000
17	81.28	(3.200)	18	1949950000	1950190000
18	86.36	(3.400)	18	1950190000	1950200000
19	91.44	(3.600)	12	1949970000	1950210000
20	96.52	(3.800)	12	1949980000	1950220000
21	101.60	(4.000)	12	1949990000	1950230000
22	106.68	(4.200)	12	1950010000	1950240000
23	111.76	(4.400)	12	1950020000	1950250000
24	116.84	(4.600)	12	1950030000	1950260000

**Pitch 5.00 mm**

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.00	(0.197)	90	1959520000	1959750000
3	10.00	(0.394)	72	1959510000	1959740000
4	15.00	(0.591)	60	1959500000	1959730000
5	20.00	(0.787)	48	1959490000	1959720000
6	25.00	(0.984)	42	1959480000	1959710000
7	30.00	(1.181)	36	1959470000	1959700000
8	35.00	(1.378)	36	1959460000	1959690000
9	40.00	(1.575)	30	1959440000	1959680000
10	45.00	(1.772)	30	1959430000	1959670000
11	50.00	(1.969)	24	1959390000	1959660000
12	55.00	(2.165)	24	1959370000	1959650000
13	60.00	(2.362)	24	1959360000	1959640000
14	65.00	(2.559)	18	1959350000	1959630000
15	70.00	(2.756)	18	1959340000	1959620000
16	75.00	(2.953)	18	1959330000	1959610000
17	80.00	(3.150)	18	1959320000	1959600000
18	85.00	(3.346)	18	1959300000	1959590000
19	90.00	(3.543)	12	1959290000	1959580000
20	95.00	(3.740)	12	1959270000	1959570000
21	100.00	(3.937)	12	1959250000	1959560000
22	105.00	(4.134)	12	1959240000	1959550000
23	110.00	(4.331)	12	1959220000	1959540000
24	115.00	(4.528)	12	1959200000	1959530000

**Ordering data**

Solder pin length		
Colour of plastic	<input type="checkbox"/> orange	<input type="checkbox"/> black

**Pitch 5.08 mm**

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	90	1098530000	1098990000
3	10.16	(0.400)	72	1098550000	1099020000
4	15.24	(0.600)	60	1098570000	1099040000
5	20.32	(0.800)	48	1098590000	1099060000
6	25.40	(1.000)	42	1098610000	1099080000
7	30.48	(1.200)	36	1098630000	1099100000
8	35.56	(1.400)	36	1098650000	1099120000
9	40.64	(1.600)	30	1098670000	1099140000
10	45.72	(1.800)	30	1098690000	1099160000
11	50.80	(2.000)	24	1098710000	1099180000
12	55.88	(2.200)	24	1098730000	1099200000
13	60.96	(2.400)	24	1098750000	1099220000
14	66.04	(2.600)	18	1098770000	1099240000
15	71.12	(2.800)	18	1098790000	1099260000
16	76.20	(3.000)	18	1098800000	1099280000
17	81.28	(3.200)	18	1098830000	1099300000
18	86.36	(3.400)	18	1098850000	1099320000
19	91.44	(3.600)	12	1098870000	1099340000
20	96.52	(3.800)	12	1098890000	1099360000
21	101.60	(4.000)	12	1098910000	1099380000
22	106.68	(4.200)	12	1098930000	1099400000
23	111.76	(4.400)	12	1098950000	1099420000
24	116.84	(4.600)	12	1098970000	1099440000

**Ordering data**

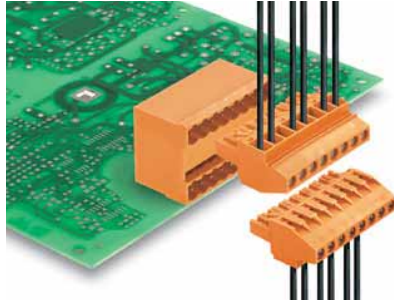
Solder pin length		
Colour of plastic	<input type="checkbox"/> orange	<input type="checkbox"/> black

**Pitch 5.08 mm**

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	90	1087250000	1087020000
3	10.16	(0.400)	72	1087260000	1087030000
4	15.24	(0.600)	60	1087270000	1087040000
5	20.32	(0.800)	48	1087280000	1087050000
6	25.40	(1.000)	42	1087290000	1087060000
7	30.48	(1.200)	36	1087300000	1087070000
8	35.56	(1.400)	36	1087310000	1087080000
9	40.64	(1.600)	30	1087320000	1087100000
10	45.72	(1.800)	30	1087330000	1087110000
11	50.80	(2.000)	24	1087340000	1087120000
12	55.88	(2.200)	24	1087350000	1087130000
13	60.96	(2.400)	24	1087360000	1087140000
14	66.04	(2.600)	18	1087370000	1087150000
15	71.12	(2.800)	18	1087380000	1087160000
16	76.20	(3.000)	18	1087390000	1068510000
17	81.28	(3.200)	18	1087400000	1087170000
18	86.36	(3.400)	18	1087410000	1087180000
19	91.44	(3.600)	12	1087420000	1087190000
20	96.52	(3.800)	12	1087430000	1087200000
21	101.60	(4.000)	12	1087440000	1087210000
22	106.68	(4.200)	12	1087450000	1087220000
23	111.76	(4.400)	12	1087460000	1087230000
24	116.84	(4.600)	12	1087470000	1087240000

## BLZP 5.0x

### BLZP 5.08/270 BLZP 5.00/270



Socket connectors with screw connection with screw clamp technology for inverted conductor connection (270°). Even safer and more efficient through multitool-(+/-) screws, conductor miswiring protection and prepared = open clamping yoke („wire-ready“). The BLZP series can optionally be labelled, coded as well as securely locked to the mating component with a screw flange or lock'n release lever.

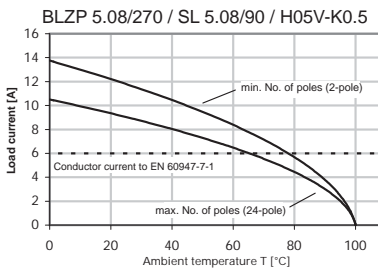
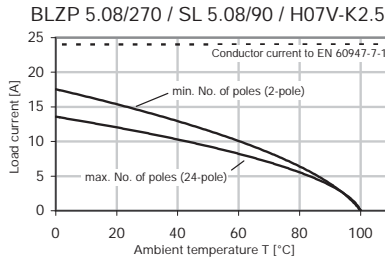
- 0.2-2.5 mm<sup>2</sup> (IEC) / 26-12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 15 A (IEC) / 10 A (UL)

#### Technical data

Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.13...4	
Solid H05(07) V-U	mm <sup>2</sup>	0.2...4	
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>	0.2...4	
Flexible with ferrule	mm <sup>2</sup>	0.2...4	
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 at ambient temperature			
	A	20 °C	40 °C
		15	12
Overvoltage category			
		III	III II
Pollution severity			
		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL 1059 rated data			
		B	C D
Nominal voltage	V	300	300
Rated current	A	15	10
AWG conductor		26-12	
@ CSA C22.2 rated data			
		B	C D
Nominal voltage	V	300	300
Rated current	A	10	10
AWG conductor		26-12	
Material data			
Type of insulating material		PBT	
Flammability class acc. UL94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Information			

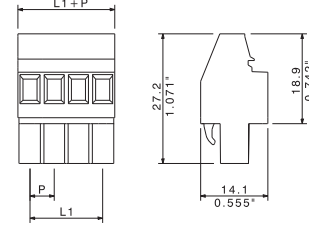
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228 pt1
- Wire end ferrule with plastic collar to DIN 46228 pt4
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

#### Derating curve



### BLZP 5.08/270 BLZP 5.00/270

Can be mounted side-by-side without sacrificing any poles



#### Ordering data

Solder pin length		Colour of plastic	
		orange	black

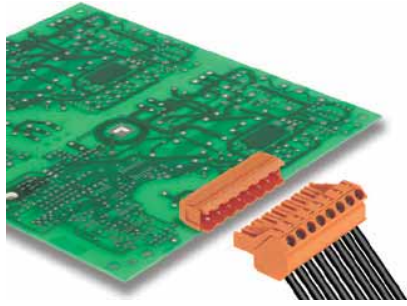
Pitch 5.08 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	180	1948790000	1949020000
3	10.16	(0.400)	120	1948800000	1949030000
4	15.24	(0.600)	90	1948810000	1949040000
5	20.32	(0.800)	72	1948820000	1949050000
6	25.40	(1.000)	60	1948830000	1949060000
7	30.48	(1.200)	48	1948840000	1949070000
8	35.56	(1.400)	42	1948850000	1949080000
9	40.64	(1.600)	36	1948860000	1949090000
10	45.72	(1.800)	36	1948870000	1949100000
11	50.80	(2.000)	30	1948880000	1949110000
12	55.88	(2.200)	30	1948890000	1949120000
13	60.96	(2.400)	24	1948900000	1949130000
14	66.04	(2.600)	24	1948910000	1949140000
15	71.12	(2.800)	24	1948920000	1949150000
16	76.20	(3.000)	18	1948930000	1949160000
17	81.28	(3.200)	18	1948940000	1949170000
18	86.36	(3.400)	18	1948950000	1949180000
19	91.44	(3.600)	18	1948960000	1949190000
20	96.52	(3.800)	18	1948970000	1949200000
21	101.60	(4.000)	12	1948980000	1949210000
22	106.68	(4.200)	12	1948990000	1949220000
23	111.76	(4.400)	12	1949000000	1949230000
24	116.84	(4.600)	12	1949010000	1949240000

Pitch 5.00 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.00	(0.197)	180	1958870000	1959100000
3	10.00	(0.394)	120	1958860000	1959090000
4	15.00	(0.591)	90	1958850000	1959080000
5	20.00	(0.787)	72	1958840000	1959070000
6	25.00	(0.984)	60	1958830000	1959060000
7	30.00	(1.181)	48	1958820000	1959050000
8	35.00	(1.378)	42	1958810000	1959040000
9	40.00	(1.575)	36	1958800000	1959030000
10	45.00	(1.772)	36	1958790000	1959020000
11	50.00	(1.969)	30	1958780000	1959010000
12	55.00	(2.165)	30	1959150000	1959000000
13	60.00	(2.362)	24	1958770000	1958990000
14	65.00	(2.559)	24	1958760000	1958980000
15	70.00	(2.756)	24	1958750000	1958970000
16	75.00	(2.953)	18	1958740000	1958960000
17	80.00	(3.150)	18	1958730000	1958950000
18	85.00	(3.346)	18	1958720000	1958940000
19	90.00	(3.543)	18	1958710000	1958930000
20	95.00	(3.740)	18	1958700000	1958920000
21	100.00	(3.937)	12	1958690000	1958910000
22	105.00	(4.134)	12	1958680000	1958900000
23	110.00	(4.331)	12	1958670000	1958890000
24	115.00	(4.528)	12	1958660000	1958880000



**BLZP 5.0x**

**BLZP 5.08/225**



Socket connectors with screw connection with screw clamp technology for inclined conductor connection (225°). Even safer and more efficient through multitool-(+/-) screws, conductor miswiring protection and prepared = open clamping yoke („wire-ready“). The BLZP series can optionally be labelled, coded as well as securely locked to the mating component with a screw flange or lock'n release lever.

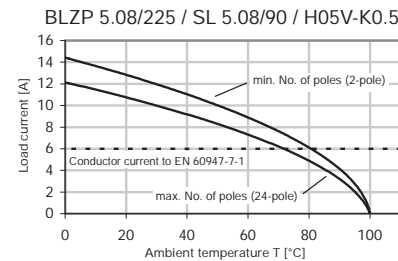
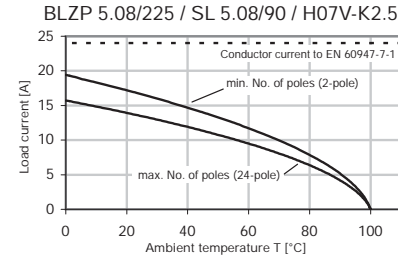
- 0.2-2.5 mm<sup>2</sup> (IEC) / 26-12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

**Technical data**

Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.13...4	
Solid H05(07) V-U	mm <sup>2</sup>	0.2...4	
Stranded H07 V-R	mm <sup>2</sup>		
Flexible H05(07) V-K	mm <sup>2</sup>	0.2...4	
Flexible with ferrule	mm <sup>2</sup>	0.2...4	
Ferrule with plastic collar	mm <sup>2</sup>	0.2...2.5	
Stripping length	mm	7	
Screwdriver blade according to norm	mm	0.6 x 3.5 DIN 5264	
Tightening torque range	Nm	0.4 ... 0.5	
Rated current at ambient temperature			
	A	20 °C	40 °C
		17	14,5
Overvoltage category			
		III	II
Pollution severity			
		3	2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL 1059 rated data			
		B	C D
Nominal voltage	V	300	300
Rated current	A	15	10
AWG conductor		26-12	
@ CSA C22.2 rated data			
		B	C D
Nominal voltage	V	300	300
Rated current	A	10	10
AWG conductor		26-12	
Material data			
Type of insulating material		PBT	
Flammability class acc. UL94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Information			

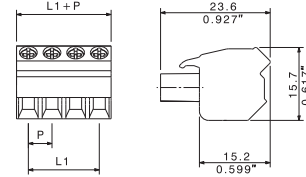
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228 pt1
- Wire end ferrule with plastic collar to DIN 46228 pt4
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**Derating curve**



**BLZP 5.08/225**

Can be mounted side-by-side without sacrificing any poles



**Ordering data**

Solder pin length					
Colour of plastic		orange	black		
Pitch 5.08 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	5.08	(0.200)	180	1946250000	1946560000
3	10.16	(0.400)	120	1946260000	1946570000
4	15.24	(0.600)	90	1946270000	1946580000
5	20.32	(0.800)	72	1946280000	1946590000
6	25.40	(1.000)	60	1946290000	1946600000
7	30.48	(1.200)	48	1946300000	1946610000
8	35.56	(1.400)	42	1946310000	1946620000
9	40.64	(1.600)	36	1946320000	1946630000
10	45.72	(1.800)	36	1946330000	1946640000
11	50.80	(2.000)	30	1946340000	1946650000
12	55.88	(2.200)	30	1946350000	1946660000
13	60.96	(2.400)	24	1946360000	1946670000
14	66.04	(2.600)	24	1946370000	1946680000
15	71.12	(2.800)	24	1946380000	1946690000
16	76.20	(3.000)	18	1946390000	1946700000
17	81.28	(3.200)	18	1946400000	1946710000
18	86.36	(3.400)	18	1946410000	1946720000
19	91.44	(3.600)	18	1946420000	1946730000
20	96.52	(3.800)	18	1946430000	1946740000
21	101.60	(4.000)	12	1946440000	1946750000
22	106.68	(4.200)	12	1946450000	1946760000
23	111.76	(4.400)	12	1946460000	1946770000
24	116.84	(4.600)	12	1946480000	1946780000

Pitch 5.00 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.



**A short description of the BLZP**

In response to customer demand and continual observation of the market, the standard BLZ has been supplemented with the following functions:

- A Plus-Minus screw:**  
Enables the use of standard crosshead screwdrivers. Because of the screw's torque resistance, the use of electric and pneumatic power tools is also possible. This can save time and money.
- Delivered with fully opened clamping yoke:**  
This is made possible by an advanced construction technique at Weidmüller. The clamping yoke does not need to be opened first with a screwdriver before inserting the wire. This results in an additional opportunity for saving time and money.
- Protection against under insertion of wire:**  
The right path toward process safety. If the wiring needs to be changed, the under-insertion protection prevents you from accidentally sticking the wire under the clamping yoke. This is an error that is often only detectable after extended troubleshooting.

**The shared functions of the BLZP and BLZ**

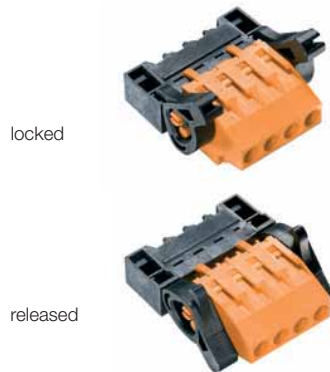
- Direct printing:**  
The socket blocks have surfaces at each pole which are designed for long-lasting labelling. This allows each connection to be labelled individually. InkJet, TampoPrint and Laserprint are available, according to your requirements.
- Selective gold-plated contacts:**  
The typical choices for gold-plated contacts are: applications with minimal currents and minimal voltages, measurement applications (such as PT100 or thermocouples), and applications exposed to vibrations (protection against abrasive corrosion). This is an affordable option for these applications since the contact surfaces are selectively gold-plated only in the contact area.
- Additional fastening on the front plate or on the pin header:**  
The screw flange mechanism is the classic and most widely used solution for preventing an unwanted connector separation due to vibrations or strain.

**LH release lever  
LR lock and release lever**

In confined space it is often difficult to gain access to and grab the plug-in connectors. In order to be able to separate male and female connectors easily, Weidmüller has developed special connectors with a release lever. The release lever has to be braced against a surface in order to operate properly. This is achieved by using male connectors with a fixed flange, or devices with a suitably designed front panel. The lever can be operated either by hand or with a screwdriver.



Alternatively, in addition to the release function, the lever in combination with the flange versions of the SL-SMT male connectors, also has a "locking" function. After the connector has been plugged in, the lever becomes locked. Releasing this enables the plug-in connector to be easily separated again. The lever can be operated either by hand or with a screwdriver.



**The 2-in-1 contact**

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level. Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it's even both - perfect for the current, and perfect for the force.







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