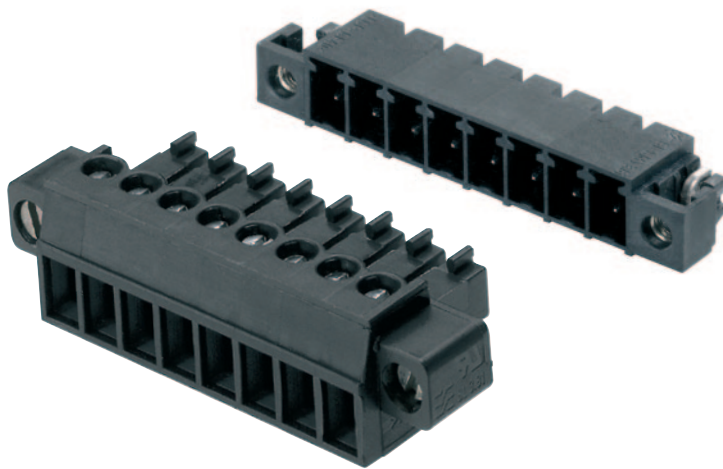


## PCB Connectors

SL-SMT 3.81/SL 3.81

BL 3.81

**NEW**  
**SL-SMT – Pitch 3.81**



The 3.81 mm (0.51 inch) pitch connector system extends the selection of connectors available to the designer in the practical 3 mm range. The pin headers are available with exit directions of 90° (horizontal) and 180° (vertical) relative to the PCB. The system has been expanded with an SMT variant.

The socket blocks with clamping yoke connection are available with three different cable-exit angle possibilities: 180°, 90° and 270°. Pin headers and socket blocks are also available with screw flanges.

The Weidmüller PCB connectors are layout-compatible with 3.81 mm connectors currently on the market.

### United Kingdom

Weidmüller Ltd.  
1 Abbey Wood Road  
Kings Hill  
West Malling  
Kent ME19 4YT  
Phone +44 1732 877032  
Fax +44 1732 873873  
info@weidmuller.co.uk  
www.weidmueller.com

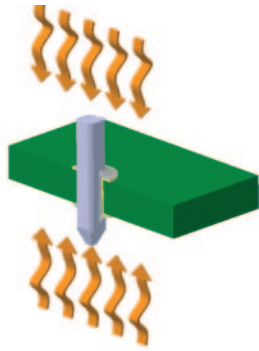
### USA

W-Interconnections, Inc.  
821 Southlake Boulevard,  
Richmond, VA 23236  
Phone +1 804 7942877  
Fax +1 804 3792593  
info@weidmuller.com  
www.weidmuller.com

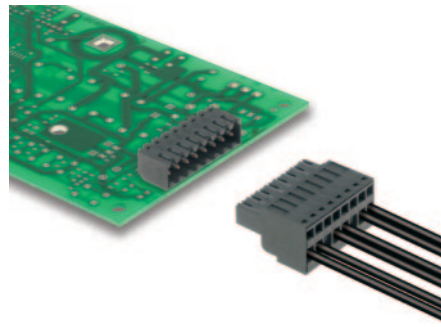
### Other countries

Weidmüller Interface GmbH & Co. KG  
P.O. Box 3030  
D-32720 Detmold  
Phone +49 5231 14-0  
Fax +49 5231 14-20 83  
info@weidmueller.com  
www.weidmueller.com

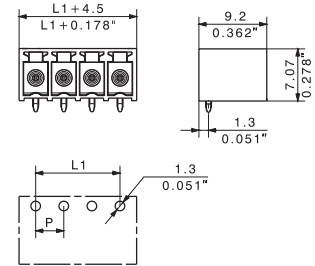
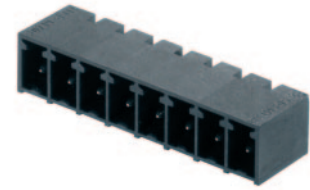
# THR solder connection pin headers



## SL-SMT 3.81/90G



## SL-SMT 3.81/90G Box



Reflow soldering is no longer restricted to SMD's (Surface Mount Devices).

Using a combination of special high temperature resistant plastic and innovative component design, Weidmueller has developed THT (Through-Hole Technology) pin-headers and pcb terminals that can be 100 % incorporated into the automatic pcb assembly process.

These components are supplied as standard in cartons, or anti-static Tape-on-Reel packaging for integration into automatic Pick-&-Place machines.

The high-tech plastic has a melting point greater than 300 °C and so is perfect for the Reflow soldering process or higher temperatures associated with Lead-Free Wave soldering.

The Weidmueller SMT/THR components aid the reduction of overall production costs thus improving manufacturing efficiency.

For additional information about the Weidmueller SMT/THR components, please review our SMT microsite – <http://www.SMT-Technology.com>

- 160V (IEC) / 300V (UL)
- 12.5A (IEC) / 8A (UL)

### Technical data

Rated data acc. to IEC 664-1 / VDE 0110 (4.97)			
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		
Rated current at ambient temperature			
	A	20°C	40°C
		12.5	11.0
Overvoltage category			
		III	III
Pollution severity			
		3	2
Rated voltage	V	160	160
Rated impulse voltage	kV	2.5	2.5
		2.5	2.5
UL 1059 rated data - E60693			
		B	C
Rated voltage	V	300	300
Rated current	A	8.0	8.0
AWG conductor			
CSA C22.2 rated data - LR12400			
		B	C
Rated voltage	V	300	300
Rated current	A	5.0	5.0
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Contact plating		tin plated	

- Information**
- Rated current refers to rated cross-section and min. number of poles
  - Drawing information P = Pitch

### Ordering data

Solder pin length	1.5 mm	3.2 mm
Colour	black	black

Poles	Type	Qty.	Order No.	Order No.
2	SL-SMT 3.81/2/90G	50	1862960000	1862460000
3	SL-SMT 3.81/3/90G	50	1862970000	1862480000
4	SL-SMT 3.81/4/90G	50	1862980000	1862490000
5	SL-SMT 3.81/5/90G	50	1862990000	1862500000
6	SL-SMT 3.81/6/90G	50	1863000000	1862510000
7	SL-SMT 3.81/7/90G	50	1863040000	1862520000
8	SL-SMT 3.81/8/90G	50	1863050000	1862530000
9	SL-SMT 3.81/9/90G	50	1863060000	1862540000
10	SL-SMT 3.81/10/90G	50	1863070000	1862550000
11	SL-SMT 3.81/11/90G	50	1863080000	1862570000
12	SL-SMT 3.81/12/90G	50	1863090000	1862730000
13	SL-SMT 3.81/13/90G	50	1863100000	1862740000
14	SL-SMT 3.81/14/90G	50	1863110000	1862760000
15	SL-SMT 3.81/15/90G	50	1863120000	1862780000
16	SL-SMT 3.81/16/90G	50	1863130000	1862800000

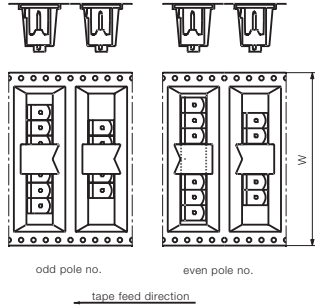
### Pitch 3.81 mm

Poles	Type	Qty.	Order No.	Order No.
2	SL-SMT 3.81/2/90G	50	1862960000	1862460000
3	SL-SMT 3.81/3/90G	50	1862970000	1862480000
4	SL-SMT 3.81/4/90G	50	1862980000	1862490000
5	SL-SMT 3.81/5/90G	50	1862990000	1862500000
6	SL-SMT 3.81/6/90G	50	1863000000	1862510000
7	SL-SMT 3.81/7/90G	50	1863040000	1862520000
8	SL-SMT 3.81/8/90G	50	1863050000	1862530000
9	SL-SMT 3.81/9/90G	50	1863060000	1862540000
10	SL-SMT 3.81/10/90G	50	1863070000	1862550000
11	SL-SMT 3.81/11/90G	50	1863080000	1862570000
12	SL-SMT 3.81/12/90G	50	1863090000	1862730000
13	SL-SMT 3.81/13/90G	50	1863100000	1862740000
14	SL-SMT 3.81/14/90G	50	1863110000	1862760000
15	SL-SMT 3.81/15/90G	50	1863120000	1862780000
16	SL-SMT 3.81/16/90G	50	1863130000	1862800000

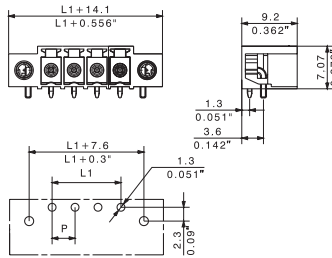
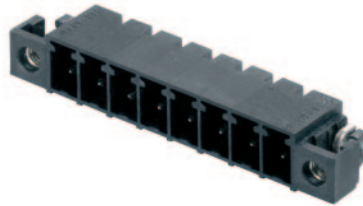
Coding element see page 9

# THR solder connection pin headers

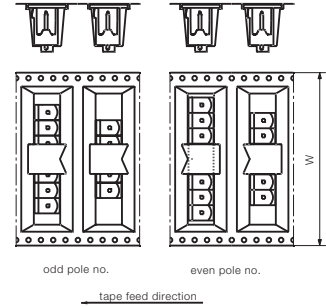
## SL-SMT 3.81/90G Tape



## SL-SMT 3.81/90LF Box



## SL-SMT 3.81/90LF Tape



### Ordering data

Solder pin length	1.5 mm	3.2 mm
Colour	black	black

Poles	Type	Qty.	Order No.	Order No.
2	SL-SMT 3.81/2/90G	250	1863140000	1862810000
3	SL-SMT 3.81/3/90G	250	1863150000	1862840000
4	SL-SMT 3.81/4/90G	250	1863160000	1862860000
5	SL-SMT 3.81/5/90G	250	1863170000	1862870000
6	SL-SMT 3.81/6/90G	250	1863180000	1862880000
7	SL-SMT 3.81/7/90G	250	1863190000	1862890000
8	SL-SMT 3.81/8/90G	250	1863200000	1862900000
9	SL-SMT 3.81/9/90G	250	1863210000	1862910000
10	SL-SMT 3.81/10/90G	250	1863220000	1862930000

### Pitch 3.81 mm

Poles	Type	Qty.	Order No.	Order No.
2	SL-SMT 3.81/2/90LF	50	1862560000	1863670000
3	SL-SMT 3.81/3/90LF	50	1862580000	1863680000
4	SL-SMT 3.81/4/90LF	50	1862590000	1863690000
5	SL-SMT 3.81/5/90LF	50	1862600000	1863700000
6	SL-SMT 3.81/6/90LF	50	1862610000	1863710000
7	SL-SMT 3.81/7/90LF	50	1862620000	1863740000
8	SL-SMT 3.81/8/90LF	50	1862630000	1863760000
9	SL-SMT 3.81/9/90LF	50	1862640000	1863770000
10	SL-SMT 3.81/10/90LF	50	1862650000	1863790000
11	SL-SMT 3.81/11/90LF	50	1862660000	1863810000
12	SL-SMT 3.81/12/90LF	50	1862670000	1863820000
13	SL-SMT 3.81/13/90LF	50	1862680000	1863840000
14	SL-SMT 3.81/14/90LF	50	1862690000	1863850000
15	SL-SMT 3.81/15/90LF	50	1862700000	1863860000
16	SL-SMT 3.81/16/90LF	50	1862710000	1863870000

### Ordering data

Solder pin length	1.5 mm	3.2 mm
Colour	black	black

Poles	Type	Qty.	Order No.	Order No.
2	SL-SMT 3.81/2/90LF	250	1862720000	1863890000
3	SL-SMT 3.81/3/90LF	250	1862750000	1863970000
4	SL-SMT 3.81/4/90LF	250	1862770000	1863980000
5	SL-SMT 3.81/5/90LF	250	1862790000	1863990000
6	SL-SMT 3.81/6/90LF	250	1862820000	1864000000
7	SL-SMT 3.81/7/90LF	250	1862830000	1864010000
8	SL-SMT 3.81/8/90LF	250	1862850000	1864020000

### Pitch 3.81 mm

Poles	Type	Qty.	Order No.	Order No.
2	SL-SMT 3.81/2/90LF	250	1862720000	1863890000
3	SL-SMT 3.81/3/90LF	250	1862750000	1863970000
4	SL-SMT 3.81/4/90LF	250	1862770000	1863980000
5	SL-SMT 3.81/5/90LF	250	1862790000	1863990000
6	SL-SMT 3.81/6/90LF	250	1862820000	1864000000
7	SL-SMT 3.81/7/90LF	250	1862830000	1864010000
8	SL-SMT 3.81/8/90LF	250	1862850000	1864020000

### Ordering data

Solder pin length	1.5 mm	3.2 mm
Colour	black	black

Poles	Type	Qty.	Order No.	Order No.
2	SL-SMT 3.81/2/90LF	250	1862720000	1863890000
3	SL-SMT 3.81/3/90LF	250	1862750000	1863970000
4	SL-SMT 3.81/4/90LF	250	1862770000	1863980000
5	SL-SMT 3.81/5/90LF	250	1862790000	1863990000
6	SL-SMT 3.81/6/90LF	250	1862820000	1864000000
7	SL-SMT 3.81/7/90LF	250	1862830000	1864010000
8	SL-SMT 3.81/8/90LF	250	1862850000	1864020000

### Pitch 3.81 mm

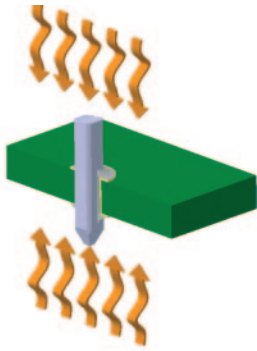
Poles	Type	Qty.	Order No.	Order No.
2	SL-SMT 3.81/2/90LF	250	1862720000	1863890000
3	SL-SMT 3.81/3/90LF	250	1862750000	1863970000
4	SL-SMT 3.81/4/90LF	250	1862770000	1863980000
5	SL-SMT 3.81/5/90LF	250	1862790000	1863990000
6	SL-SMT 3.81/6/90LF	250	1862820000	1864000000
7	SL-SMT 3.81/7/90LF	250	1862830000	1864010000
8	SL-SMT 3.81/8/90LF	250	1862850000	1864020000

Tape width W = 32mm for 2- to 5-pin versions, otherwise 56mm  
Coding element see page 9

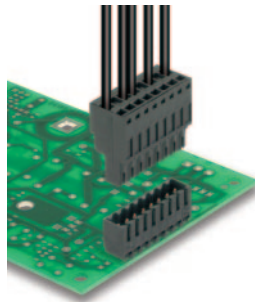
Coding element see page 9

Tape width W = 32mm for 2-pin version, otherwise 56mm  
Coding element see page 9

# THR solder connection pin headers



## SL-SMT 3.81/180G



Reflow soldering is no longer restricted to SMD's (Surface Mount Devices).

Using a combination of special high temperature resistant plastic and innovative component design, Weidmueller has developed THT (Through-Hole Technology) pin-headers and pcb terminals that can be 100 % incorporated into the automatic pcb assembly process.

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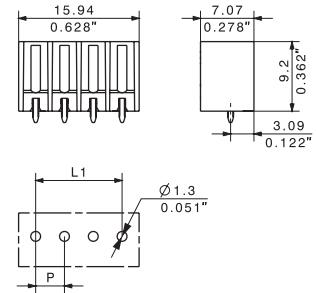
- 160V (IEC) / 300V (UL)
- 12.5A (IEC) / 8A (UL)

### Technical data

Rated data acc. to IEC 664-1 / VDE 0110 (4.97)			
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		
Rated current at ambient temperature			
	A	20°C	40°C
		12.5	11.0
Overvoltage category			
		III	III
Pollution severity			
		3	2
Rated voltage	V	160	160
Rated impulse voltage	kV	2.5	2.5
		2.5	2.5
UL 1059 rated data - E60693			
		B	C
Rated voltage	V	300	300
Rated current	A	8.0	8.0
AWG conductor			
CSA C22.2 rated data - LR12400			
		B	C
Rated voltage	V	300	300
Rated current	A	5.0	5.0
AWG conductor			
Material data			
Type of insulating material		LCP GF	
Flammability class acc. UL94		V-0	
Contact base material		CuSn	
Contact plating		tin plated	

- Information**
- Rated current refers to rated cross-section and min. number of poles
  - Drawing information P = Pitch

## SL-SMT 3.81/180G



### Ordering data

Solder pin length	1.5 mm	3.2 mm
Colour	black	black

Poles	Type	Qty.	Order No.	Order No.
2	SL-SMT 3.81/2/180G	50	1863720000	1862920000
3	SL-SMT 3.81/3/180G	50	1863730000	1862940000
4	SL-SMT 3.81/4/180G	50	1863750000	1862950000
5	SL-SMT 3.81/5/180G	50	1863780000	1863010000
6	SL-SMT 3.81/6/180G	50	1863830000	1863020000
7	SL-SMT 3.81/7/180G	50	1863880000	1863030000
8	SL-SMT 3.81/8/180G	50	1863900000	1863240000
9	SL-SMT 3.81/9/180G	50	1863910000	1863270000
10	SL-SMT 3.81/10/180G	50	1863920000	1863290000
11	SL-SMT 3.81/11/180G	50	1863930000	1863320000
12	SL-SMT 3.81/12/180G	50	1863940000	1863330000
13	SL-SMT 3.81/13/180G	50	1863950000	1863350000
14	SL-SMT 3.81/14/180G	50	1863960000	1863370000
15	SL-SMT 3.81/15/180G	50	1864030000	1863400000
16	SL-SMT 3.81/16/180G	50	1864040000	1863420000

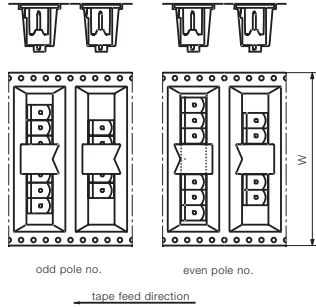
### Pitch 3.81 mm

Poles	Type	Qty.	Order No.	Order No.
2	SL-SMT 3.81/2/180G	50	1863720000	1862920000
3	SL-SMT 3.81/3/180G	50	1863730000	1862940000
4	SL-SMT 3.81/4/180G	50	1863750000	1862950000
5	SL-SMT 3.81/5/180G	50	1863780000	1863010000
6	SL-SMT 3.81/6/180G	50	1863830000	1863020000
7	SL-SMT 3.81/7/180G	50	1863880000	1863030000
8	SL-SMT 3.81/8/180G	50	1863900000	1863240000
9	SL-SMT 3.81/9/180G	50	1863910000	1863270000
10	SL-SMT 3.81/10/180G	50	1863920000	1863290000
11	SL-SMT 3.81/11/180G	50	1863930000	1863320000
12	SL-SMT 3.81/12/180G	50	1863940000	1863330000
13	SL-SMT 3.81/13/180G	50	1863950000	1863350000
14	SL-SMT 3.81/14/180G	50	1863960000	1863370000
15	SL-SMT 3.81/15/180G	50	1864030000	1863400000
16	SL-SMT 3.81/16/180G	50	1864040000	1863420000

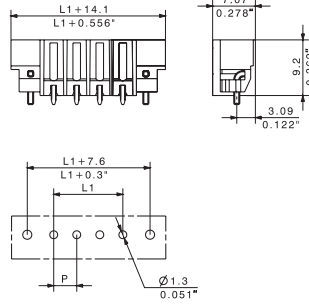
Coding element see page 9

# THR solder connection pin headers

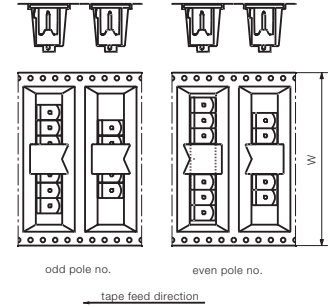
## SL-SMT 3.81/180G



## SL-SMT 3.81/180LF



## SL-SMT 3.81/180LF



### Ordering data

Solder pin length	1.5 mm	3.2 mm
Colour	black	black

### Pitch 3.81 mm

Poles	Type	Qty.	Order No.	Order No.
2	SL-SMT 3.81/2/180G	200	1864050000	1863450000
3	SL-SMT 3.81/3/180G	200	1864060000	1863470000
4	SL-SMT 3.81/4/180G	200	1864290000	1863490000
5	SL-SMT 3.81/5/180G	200	1864300000	1863540000
6	SL-SMT 3.81/6/180G	200	1864310000	1863560000
7	SL-SMT 3.81/7/180G	200	1864320000	1863570000
8	SL-SMT 3.81/8/180G	200	1864330000	1863590000
9	SL-SMT 3.81/9/180G	200	1864340000	1863630000
10	SL-SMT 3.81/10/180G	200	1864350000	1863660000

Tape width W = 32mm for 2- to 5-pin versions, otherwise 56mm  
Coding element see page 9

### Ordering data

Solder pin length	1.5 mm	3.2 mm
Colour	black	black

### Pitch 3.81 mm

Poles	Type	Qty.	Order No.	Order No.
2	SL-SMT 3.81/2/180LF	50	1864070000	1863230000
3	SL-SMT 3.81/3/180LF	50	1864080000	1863250000
4	SL-SMT 3.81/4/180LF	50	1864090000	1863260000
5	SL-SMT 3.81/5/180LF	50	1864100000	1863280000
6	SL-SMT 3.81/6/180LF	50	1864110000	1863300000
7	SL-SMT 3.81/7/180LF	50	1864120000	1863310000
8	SL-SMT 3.81/8/180LF	50	1864130000	1863340000
9	SL-SMT 3.81/9/180LF	50	1864140000	1863360000
10	SL-SMT 3.81/10/180LF	50	1864150000	1863380000
11	SL-SMT 3.81/11/180LF	50	1864160000	1863390000
12	SL-SMT 3.81/12/180LF	50	1864170000	1863410000
13	SL-SMT 3.81/13/180LF	50	1864180000	1863430000
14	SL-SMT 3.81/14/180LF	50	1864190000	1863440000
15	SL-SMT 3.81/15/180LF	50	1864200000	1863460000
16	SL-SMT 3.81/16/180LF	50	1864210000	1863480000

Coding element see page 9

### Ordering data

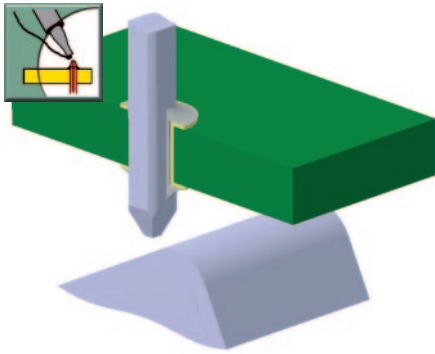
Solder pin length	1.5 mm	3.2 mm
Colour	black	black

### Pitch 3.81 mm

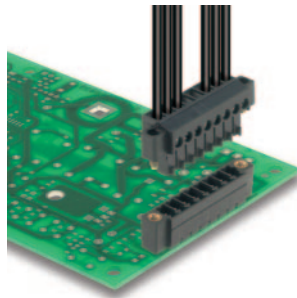
Poles	Type	Qty.	Order No.	Order No.
2	SL-SMT 3.81/2/180LF	200	1864220000	1863500000
3	SL-SMT 3.81/3/180LF	200	1864230000	1863510000
4	SL-SMT 3.81/4/180LF	200	1864240000	1863530000
5	SL-SMT 3.81/5/180LF	200	1864250000	1863580000
6	SL-SMT 3.81/6/180LF	200	1864260000	1863600000
7	SL-SMT 3.81/7/180LF	200	1864270000	1863620000
8	SL-SMT 3.81/8/180LF	200	1864280000	1863640000

Tape width W = 32mm for 2-pin version, otherwise 56mm  
Coding element see page 9

# Solder connection pin headers



**SL 3.81**

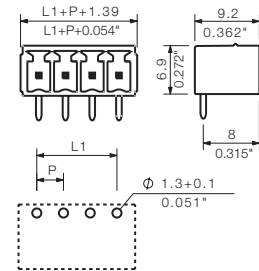


Weidmueller's standard THT(Through-Hole Technology) pcb terminals and connectors have been specifically designed for the Wave(Flow) soldering process.

With the most frequently used pcb's worldwide being single layer 1.6 mm (0.062 inch) and 2.0 mm (0.079 inch) thick, the solder pin length of pcb terminals and connectors needs to be at least 3.2 mm (0.126 inch) long in order to provide problem-free soldering.

- 125V (IEC) / 300V (UL)
- 8A (IEC) / 8A (UL)

**SL 3.81/90G**



## Technical data

### Rated data acc. to IEC 664-1 / VDE 0110 (4.97)

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	

### Rated current at ambient temperature

	20°C	40°C
A	8.0	8.0

### Overvoltage category

	III	III	II
Pollution severity	3	2	2

### Pollution severity

Rated voltage	V	125	125	250
Rated impulse voltage	kV	2.5	2.5	2.5

### UL 1059 rated data - E60693

	B	C	D
Rated voltage	V	300	300
Rated current	A	8.0	8.0
AWG conductor			

### CSA C22.2 rated data - LR12400 B

	B	C	D
Rated voltage	V	300	300
Rated current	A	5.0	5.0
AWG conductor			

### Material data

Type of insulating material	PA GF
Flammability class acc. UL94	V-0
Contact base material	Cu alloy
Contact plating	tin plated

### Information

- Rated current refers to rated cross-section and min. number of poles
- Drawing information P = Pitch

## Ordering data

Solder pin length	3.5 mm
Colour	black

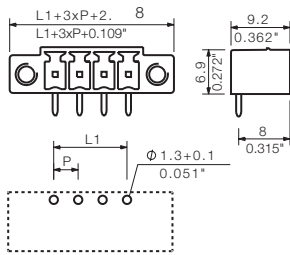
### Pitch 3.81 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	3.81	(0.150)	50		1793130000
3	7.62	(0.300)	50		1793140000
4	11.43	(0.450)	50		1793150000
5	15.24	(0.600)	50		1793160000
6	19.05	(0.750)	50		1793170000
8	26.67	(1.050)	50		1793180000
10	34.29	(1.350)	50		1793190000
12	41.91	(1.650)	50		1793200000
16	57.15	(2.250)	50		1793210000

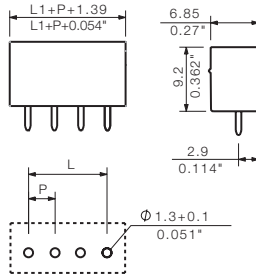
Coding element see page 9

# Solder connection pin headers

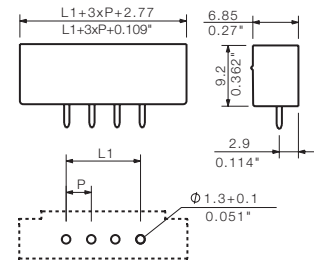
## SL 3.81/90F



## SL 3.81/180G



## SL 3.81/180F



### Ordering data

Solder pin length	3.5 mm
Colour	black

### Pitch 3.81 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	3.81	(0.150)	50		1793330000
3	7.62	(0.300)	50		1793340000
4	11.43	(0.450)	50		1793350000
5	15.24	(0.600)	50		1793360000
6	19.05	(0.750)	50		1793370000
8	26.67	(1.050)	50		1793380000
10	34.29	(1.350)	50		1793390000
12	41.91	(1.650)	50		1793400000
16	57.15	(2.250)	50		1793410000

Coding element see page 9

### Ordering data

Solder pin length	3.5 mm
Colour	black

### Pitch 3.81 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	3.81	(0.150)	50		1793520000
3	7.62	(0.300)	50		1793530000
4	11.43	(0.450)	50		1793540000
5	15.24	(0.600)	50		1793550000
6	19.05	(0.750)	50		1793560000
8	26.67	(1.050)	50		1793570000
10	34.29	(1.350)	50		1793580000
12	41.91	(1.650)	50		1793590000
16	57.15	(2.250)	50		1793600000

Coding element see page 9

### Ordering data

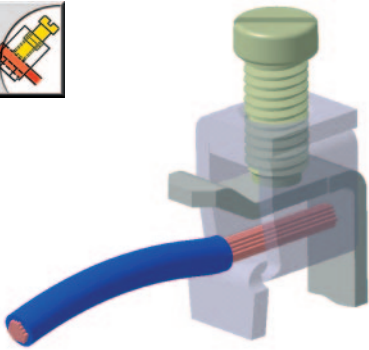
Solder pin length	3.5 mm
Colour	black

### Pitch 3.81 mm

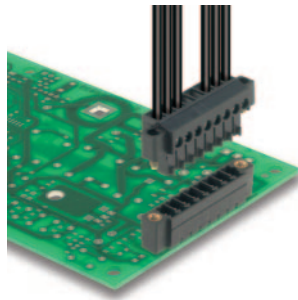
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	3.81	(0.150)	50		1793700000
3	7.62	(0.300)	50		1793710000
4	11.43	(0.450)	50		1793720000
5	15.24	(0.600)	50		1793730000
6	19.05	(0.750)	50		1793740000
8	26.67	(1.050)	50		1793750000
10	34.29	(1.350)	50		1793760000
12	41.91	(1.650)	50		1793770000
16	57.15	(2.250)	50		1793780000

Coding element see page 9

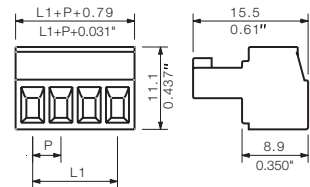
# Clamping yoke connection socket connectors



BL 3.81



BL 3.81/180



The screw clamping yoke is the most popular and widely used cable connection method worldwide. The security of the cable is vital for every application, and the Weidmüller clamping yoke design has proven its reliability for millions of connections in hundreds of thousands of applications over the last 40 years.

- 0.05 - 1.5mm<sup>2</sup> (IEC) / 30 - 16 AWG (UL)
- 125V (IEC) / 300V (UL)
- 8A (IEC) / 8A (UL)

## Technical data

### Rated data acc. to IEC 664-1 / VDE 0110 (4.97)

Clamping range, max.	mm <sup>2</sup>	0.05...1.50
Solid H05(07) V-U	mm <sup>2</sup>	0.50...1.50
Stranded H07 V-R	mm <sup>2</sup>	
Flexible H05(07) V-K	mm <sup>2</sup>	0.50...1.50
Flexible with ferrule	mm <sup>2</sup>	0.50...1.50
Ferrule with plastic collar	mm <sup>2</sup>	0.50...1.50
Stripping length	mm	6.5

### Rated current at ambient temperature

		20°C	40°C
	A	8.0	8.0

### Overvoltage category

		III	III	II
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### Pollution severity

		3	2	2
--	--	---	---	---

Rated voltage	V	125	125	250
Rated impulse voltage	kV	2.5	2.5	2.5

### UL 1059 rated data - E60693

		B	C	D
Rated voltage	V	300	300	
Rated current	A	8.0	8.0	
AWG conductor			30-16	

### CSA C22.2 rated data - LR12400

		B	C	D
Rated voltage	V	300	300	
Rated current	A	5.0	5.0	
AWG conductor			22-14	

### Material data

Type of insulating material	PA GF
Flammability class acc. UL94	V-0
Contact base material	Cu alloy
Contact plating	tin plated

### Information

- Rated current refers to rated cross-section and min. number of poles
- ferrule without plastic collar acc. to DIN 46228/1
- Ferrule with plastic collar acc. to DIN 46228/4
- Drawing information P = Pitch

## Ordering data

### Solder pin length

Colour	black
--------	-------

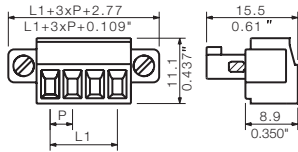
### Pitch 3.81 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	3.81	(0.150)	50		1792770000
3	7.62	(0.300)	50		1792780000
4	11.43	(0.450)	50		1792790000
5	15.24	(0.600)	50		1792800000
6	19.05	(0.750)	50		1792810000
8	26.67	(1.050)	50		1792820000
10	34.29	(1.350)	50		1792830000
12	41.91	(1.650)	50		1792840000
16	57.15	(2.250)	50		1792850000



# Clamping yoke connection socket connectors / Accessories

## BL 3.81/180F



### Ordering data

Solder pin length

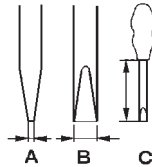
Colour black

### Pitch 3.81 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	3.81	(0.150)	50		1792950000
3	7.62	(0.300)	50		1792960000
4	11.43	(0.450)	50		1792970000
5	15.24	(0.600)	50		1792980000
6	19.05	(0.750)	50		1792990000
8	26.67	(1.050)	50		1793000000
10	34.29	(1.350)	50		1793010000
12	41.91	(1.650)	50		1793020000
16	57.15	(2.250)	50		1793030000

## SDI

VDE-insolated slot-head screwdriver



### VDE-insolated slot-head screwdriver

- DIN 7437, ISO 2380/2,
- Negative drive acc. to DIN 5264, ISO 2380/1,
- SoftFinish grip



### Ordering data

Type	Dim. (mm)	A	B	C	Order No.
SDI		0.4	2.5	75	9008370000

## SL 3.81 KO

Coding element



- Enables the coding of connectors to prevent connections errors.
- For pin-headers only.
- Coding without loss of poles.

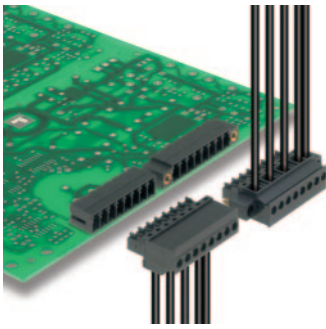
### Ordering data

Colour	Order No.
white	

Type	Qty.	Order No.
SL 3.81 KO	100	1798110000

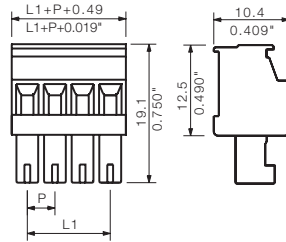
# Clamping yoke connection socket connectors

## BL 3.81 90/270

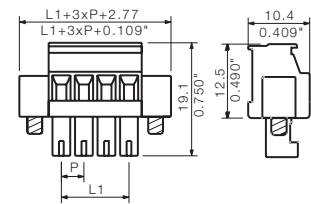
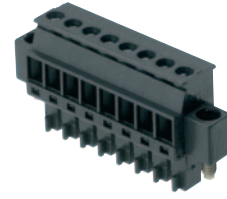


- 0.05 - 1.5mm<sup>2</sup> (IEC) / 30 - 16 AWG (UL)
- 125V (IEC) / 300V (UL)
- 8A (IEC) / 8A (UL)

## BL 3.81/90



## BL 3.81/90F



### Technical data

#### Rated data acc. to IEC 664-1 / VDE 0110 (4.97)

Clamping range, max.	mm <sup>2</sup>	0.05...1.50
Solid H05(07) V-U	mm <sup>2</sup>	0.50...1.50
Stranded H07 V-R	mm <sup>2</sup>	
Flexible H05(07) V-K	mm <sup>2</sup>	0.50...1.50
Flexible with ferrule	mm <sup>2</sup>	0.50...1.50
Ferrule with plastic collar	mm <sup>2</sup>	0.50...1.50
Stripping length	mm	6.5

#### Rated current at ambient temperature

		20°C	40°C
A		8.0	8.0

#### Overvoltage category

		III	III	II
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#### Pollution severity

		3	2	2
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Rated voltage	V	125	125	250
Rated impulse voltage	kV	2.5	2.5	2.5

#### UL 1059 rated data - E60693

		B	C	D
Rated voltage	V	300	300	
Rated current	A	8.0	8.0	
AWG conductor			30-16	

#### CSA C22.2 rated data - LR12400

		B	C	D
Rated voltage	V	300	300	
Rated current	A	5.0	5.0	
AWG conductor			22-14	

#### Material data

Type of insulating material	PA GF
Flammability class acc. UL94	V-0
Contact base material	Cu alloy
Contact plating	tin plated

#### Information

- Rated current refers to rated cross-section and min. number of poles
- ferrule without plastic collar acc. to DIN 46228/1
- Ferrule with plastic collar acc. to DIN 46228/4
- Drawing information P = Pitch

### Ordering data

#### Solder pin length

Colour	black
--------	-------

#### Pitch 3.81 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	3.81	(0.150)	50	1798500000	
3	7.62	(0.300)	50	1798120000	
4	11.43	(0.450)	50	1798550000	
5	15.24	(0.600)	50	1798570000	
6	19.05	(0.750)	50	1798590000	
8	26.67	(1.050)	50	1798130000	
10	34.29	(1.350)	50	1798610000	
12	41.91	(1.650)	50	1798630000	
16	57.15	(2.250)	50	1798660000	

### Ordering data

#### Solder pin length

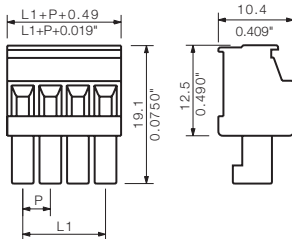
Colour	black
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#### Pitch 3.81 mm

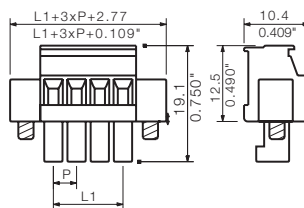
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	3.81	(0.150)	50	1798780000	
3	7.62	(0.300)	50	1798140000	
4	11.43	(0.450)	50	1798790000	
5	15.24	(0.600)	50	1798800000	
6	19.05	(0.750)	50	1798810000	
8	26.67	(1.050)	50	1798150000	
10	34.29	(1.350)	50	1798820000	
12	41.91	(1.650)	50	1798830000	
16	57.15	(2.250)	50	1798840000	

# Clamping yoke connection socket connectors

## BL 3.81/270



## BL 3.81/270F



### Ordering data

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

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	3.81	(0.150)	50	1798940000	1798940000
3	7.62	(0.300)	50	1798160000	1798160000
4	11.43	(0.450)	50	1798950000	1798950000
5	15.24	(0.600)	50	1798960000	1798960000
6	19.05	(0.750)	50	1798970000	1798970000
8	26.67	(1.050)	50	1798170000	1798170000
10	34.29	(1.350)	50	1798980000	1798980000
12	41.91	(1.650)	50	1798990000	1798990000
16	57.15	(2.250)	50	1799000000	1799000000

### Ordering data

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

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	3.81	(0.150)	50	1799100000	1799100000
3	7.62	(0.300)	50	1798180000	1798180000
4	11.43	(0.450)	50	1799110000	1799110000
5	15.24	(0.600)	50	1799120000	1799120000
6	19.05	(0.750)	50	1799130000	1799130000
8	26.67	(1.050)	50	1798190000	1798190000
10	34.29	(1.350)	50	1799140000	1799140000
12	41.91	(1.650)	50	1799150000	1799150000
16	57.15	(2.250)	50	1799160000	1799160000

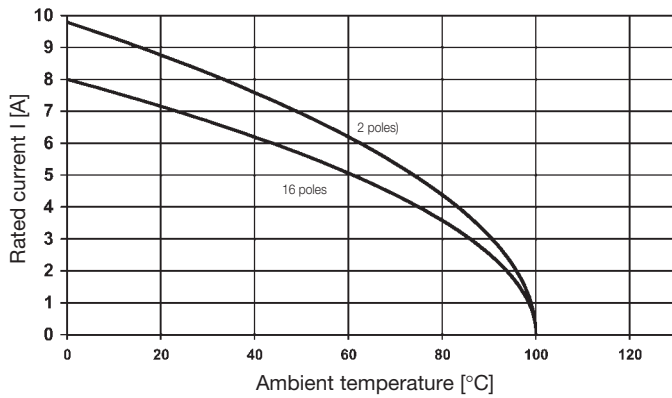
### Pitch 3.81 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	3.81	(0.150)	50	1798940000	1798940000
3	7.62	(0.300)	50	1798160000	1798160000
4	11.43	(0.450)	50	1798950000	1798950000
5	15.24	(0.600)	50	1798960000	1798960000
6	19.05	(0.750)	50	1798970000	1798970000
8	26.67	(1.050)	50	1798170000	1798170000
10	34.29	(1.350)	50	1798980000	1798980000
12	41.91	(1.650)	50	1798990000	1798990000
16	57.15	(2.250)	50	1799000000	1799000000

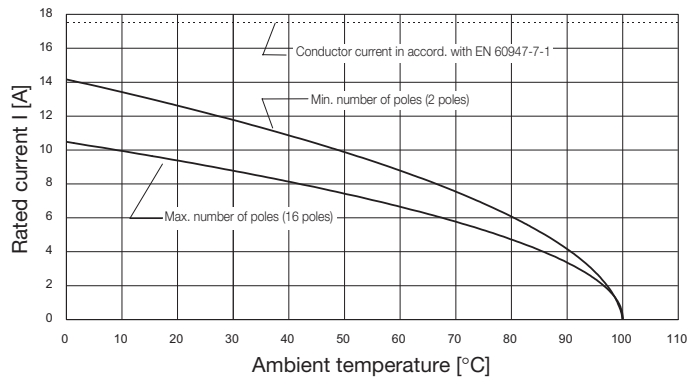
### Pitch 3.81 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	3.81	(0.150)	50	1799100000	1799100000
3	7.62	(0.300)	50	1798180000	1798180000
4	11.43	(0.450)	50	1799110000	1799110000
5	15.24	(0.600)	50	1799120000	1799120000
6	19.05	(0.750)	50	1799130000	1799130000
8	26.67	(1.050)	50	1798190000	1798190000
10	34.29	(1.350)	50	1799140000	1799140000
12	41.91	(1.650)	50	1799150000	1799150000
16	57.15	(2.250)	50	1799160000	1799160000

BL 3.81 /SL 3.81



BL 3.81 /SL-SMT 3.81



When mounting PCBs, note that the rated data specified in the data sheet are with reference to the connection elements. The required air gaps and leakage paths are to be adhered to for the given application in accordance with VDE 0110. To determine the current-carrying capacity of the PCBs, DIN IEC 326 T.3 is to be observed.

Weidmüller PCB connectors are tested in accordance with, among others, standard DIN VDE 0627, for the specified field of application. When used as intended, all requirements for applicable electrical, mechanical, thermal and corrosive demands are fulfilled.