

OMNIMATE Signal PCB Connectors

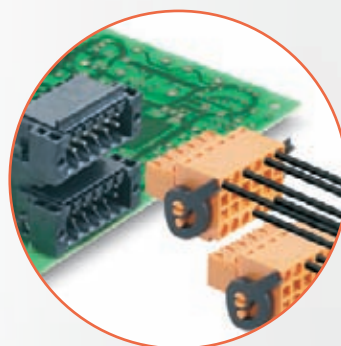
OMNIMATE Signal PCB Connectors	Double-row connectors in 3.50 mm pitch		
	Series B2L/S2L 3.50		
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	Connectors in 3.50 mm pitch		
	Series BL/SL 3.50		
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Packing density, redefined - 3.50 mm pitch, 2 rows more convenience despite the small pitch

The two row arrangement of tension clamp connections permits a double junction density in 3.50 mm pitch and many single wire connections without losing polarity in confined spaces with a modular design.

Maximum connection density in the smallest of spaces - for field connections of typical sensor wires up to 1 mm², the two row female plugs in 3.50 mm pitch with the bar uppermost, closes the gap between less space and more functionality.

Miniaturisation is more than just greater functional density in a smaller space, every millimetre of size saved reduces the space requirements and also the installation costs to the customer.



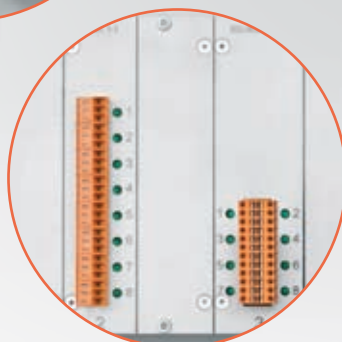
Maximum packing density

The double layer male header made from LCP for the THR process allows the connection of 1 mm² I/O single core wires in a virtual spacing of 0.875 mm.



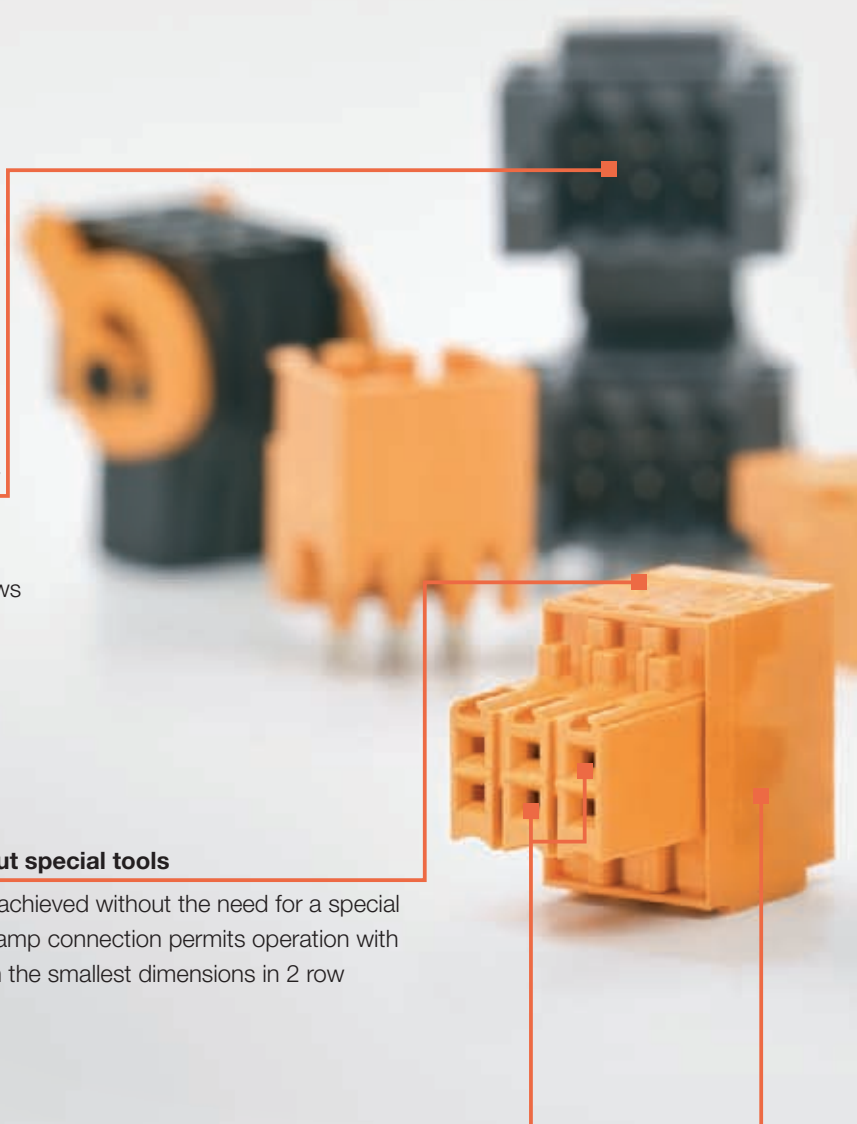
Simple handling without special tools

Secure and quick wiring achieved without the need for a special tool. The large tension clamp connection permits operation with a standard screwdriver in the smallest dimensions in 2 row 3.50 mm pitch.



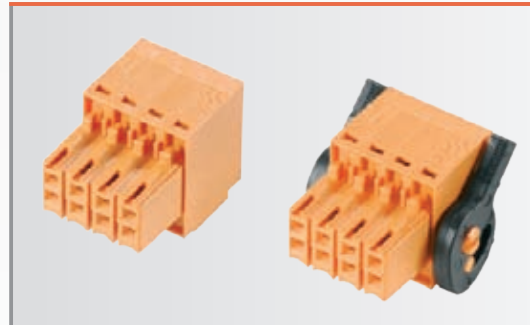
Twice the junction density

When compared with 19" racks and 24 connections in 3.50 pitch saves 30 % on the front panel and reduces the footprint on the PCB by 10 % in 2 row 3.50 mm pitch.

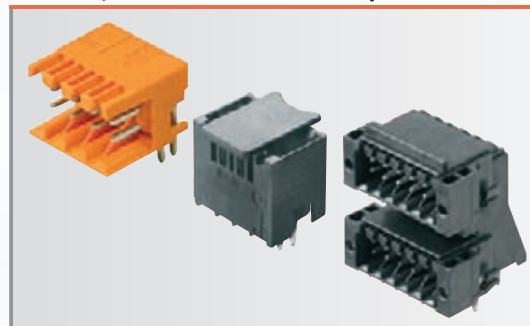


Advanced application possibilities

The extensive range of accessories for coding, marking, operating, cover hoods with integral strain relief and light guides for visualisation allows you to customise your project.

Vibration proof screw flange or gentle release of entire component assemblies

With the Screw flange variants you are on the vibration resistance side. With the release lever you can disconnect the multi pole female plug from the male header with considerable less effort.

Available with many different forms of male headers, efficient – versatile – optimised

Efficient – the use of LCP allows reliable processing without pre-processing.

Versatile – numerous versions in the male header permits all solder processes for many different applications.

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

Comparing female plugs in disk form with female plugs in modular design, you save space between the plugs and permit side-by-side mounting without sacrificing any poles in any quantity with 2 row 3.50 mm pitch.



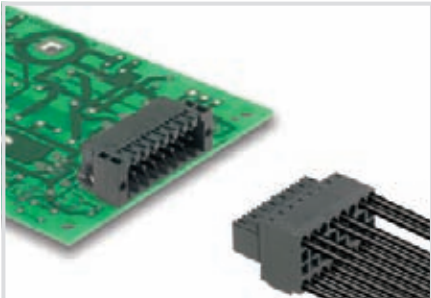
Optimal – suitable for automated assembly in tape-on-reel packaging, the pin bars allow for automatic placement.

Double-row connectors in 3.50 mm pitch - Series B2L/S2L 3.50
Quick selection

Double-row connectors in 3.50 mm pitch

Series B2L/S2L 3.50

S2L-SMT 3.50/./90



High-temperature-resistant, angled, double-row, closed male header for all common soldering methods.

- Optimised for the SMT processing.
- 3.2 mm solder pin suitable for reflow and wave soldering.
- Available in closed (G) version and with solder flange (LF).
- Packed either in box (BX) or on tape-on-reel (RL).

Product data

IEC: 160 V / 10 A
UL: 150 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

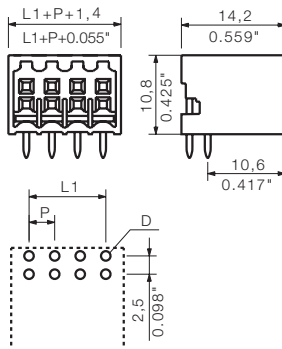
- Additional colours on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section and min. No. of poles.
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

S2L-SMT 3.50/./90G Box

closed ends in box



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm ²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	10	9
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	50	125 160
Rated impulse voltage	kV	2.5	1.5 1.5
UL / CUL (Use Group)		B	C D
Rated voltage	V	150	50
Rated current	A	10	10
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	150	
Rated current	A	5	
AWG conductor	AWG		-
General data			
Type of insulation material		LCP GF	
Flammability class UL 94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0, Octagonal	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	B2L/S2L 3.5 KO OR	1849730000
	B2L/S2L 3.5 KO SW	1849740000
LED light guide		
	S2L-SMT 3.5 FLA 20/10	1814590000

Ordering data

Solder pin length				3.2 mm
Colour				black
Pitch		3.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	3.50	0.138	50	1920850000
6	7.00	0.276	50	1794210000
8	10.50	0.413	50	1794220000
10	14.00	0.551	50	1794230000
12	17.50	0.689	50	1794240000
14	21.00	0.827	50	1794250000
16	24.50	0.965	50	1794260000
18	28.00	1.102	20	1794270000
20	31.50	1.240	20	1794280000
22	35.00	1.378	20	1794290000
24	38.50	1.516	20	1794300000
26	42.00	1.654	20	1794310000
28	45.50	1.791	20	1794320000
30	49.00	1.929	20	1794330000
32	52.50	2.067	20	1794340000
34	56.00	2.205	20	1794350000
36	59.50	2.343	20	1794360000

1.5 mm solder pins on request

S2L-SMT 3.50/./90G Tape

closed ends in tape



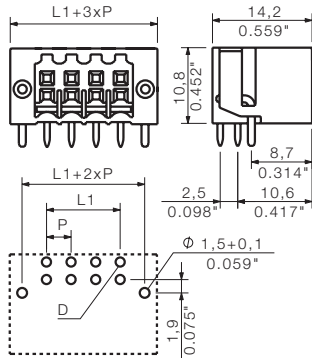
Dimensioned drawing

S2L-SMT 3.50/./90LF Box

with solder flange in box



Dimensioned drawing



S2L-SMT 3.50/./90LF Tape

with solder flange in tape



Dimensioned drawing

Ordering data

Solder pin length		3.2 mm	
Colour		black	
Pitch	3.50 mm		
Pol.	L1	(inch)	Qty. Order No.
6	7.00	0.276	235 1807470000
8	10.50	0.413	235 1807480000
10	14.00	0.551	235 1807490000
12	17.50	0.689	235 1807500000
14	21.00	0.827	235 1807510000
16	24.50	0.965	235 1807520000
18	28.00	1.102	235 1807530000
20	31.50	1.240	235 1807540000
22	35.00	1.378	235 1807550000
24	38.50	1.516	235 1802190000

Ordering data

Solder pin length		3.2 mm	
Colour		black	
Pitch	3.50 mm		
Pol.	L1	(inch)	Qty. Order No.
4	3.50	0.138	50 1001300000
6	7.00	0.276	50 1794860000
8	10.50	0.413	50 1794870000
10	14.00	0.551	50 1794880000
12	17.50	0.689	50 1794890000
14	21.00	0.827	50 1794900000
16	24.50	0.965	50 1794910000
18	28.00	1.102	20 1794920000
20	31.50	1.240	20 1794930000
22	35.00	1.378	20 1794940000
24	38.50	1.516	20 1794950000
26	42.00	1.654	20 1794960000
28	45.50	1.791	20 1794970000
30	49.00	1.929	20 1794980000
32	52.50	2.067	20 1794990000
34	56.00	2.205	20 1795000000
36	59.50	2.343	20 1795010000

Ordering data

Solder pin length		3.2 mm	
Colour		black	
Pitch	3.50 mm		
Pol.	L1	(inch)	Qty. Order No.
6	7.00	0.276	235 1807560000
8	10.50	0.413	235 1807570000
10	14.00	0.551	235 1807580000
12	17.50	0.689	235 1807590000
14	21.00	0.827	235 1807600000
16	24.50	0.965	235 1807610000
18	28.00	1.102	235 1807620000
20	31.50	1.240	235 1807630000

1.5 mm solder pins on request
Tape widths: 32, 44, 56, 72, 88

1.5 mm solder pins on request

1.5 mm solder pins on request
Tape widths: 32, 44, 56, 72, 88

Double-row connectors in 3.50 mm pitch

Series B2L/S2L 3.50

S2L-SMT 3.50/./180



High-temperature-resistant, straight, double-row, closed male header for all common soldering methods.

- Optimised for the SMT processing.
- 3.2 mm solder pin suitable for reflow and wave soldering.
- Available in closed (G) version and with solder flange (LF).
- Packed either in box (BX) or on tape-on-reel (RL).

Product data

IEC: 160 V / 10 A
UL: 150 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

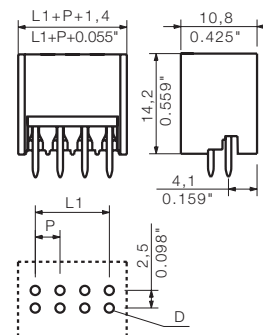
- Additional colours on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section and min. No. of poles.
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

S2L-SMT 3.50/./180G Box

closed ends in Box



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	10	9	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	50	125	160
Rated impulse voltage	kV	2.5	1.5	1.5
UL / CUL (Use Group)		B	C	D
Rated voltage	V	150	50	
Rated current	A	10	10	
AWG conductor	AWG		-	
CSA (Use Group)		B	C	D
Rated voltage	V	150		
Rated current	A	5		
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
B2L/S2L 3.5 KO OR	1849730000
B2L/S2L 3.5 KO SW	1849740000



Ordering data

Solder pin length				3.5 mm
Colour				black
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	3.50	0.138	50	1924530000
6	7.00	0.276	50	1794530000
8	10.50	0.413	50	1794540000
10	14.00	0.551	50	1794550000
12	17.50	0.689	50	1794560000
14	21.00	0.827	50	1794570000
16	24.50	0.965	50	1794580000
18	28.00	1.102	20	1794590000
20	31.50	1.240	20	1794600000
22	35.00	1.378	20	1794610000
24	38.50	1.516	20	1794620000
26	42.00	1.654	20	1794630000
28	45.50	1.791	20	1794640000
30	49.00	1.929	20	1794650000
32	52.50	2.067	20	1794660000
34	56.00	2.205	20	1794670000
36	59.50	2.343	20	1794680000

1.5 mm solder pins on request

S2L-SMT 3.50/./180G Tape

closed ends in tape



Dimensioned drawing

Ordering data

Solder pin length				3.5 mm
Colour				black
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
6	7.00	0.276	175	1807780000
8	10.50	0.413	175	1807790000
10	14.00	0.551	175	1807800000
12	17.50	0.689	175	1807810000
14	21.00	0.827	175	1807820000
16	24.50	0.965	175	1807830000
18	28.00	1.102	175	1807840000
20	31.50	1.240	175	1807850000
22	35.00	1.378	175	1807860000
24	38.50	1.516	175	1802220000

1.5 mm solder pins on request
Tape widths: 32, 44, 56, 72, 88

S2L-SMT 3.50/./180LF Box

with solder flange in box



Dimensioned drawing

Ordering data

Solder pin length				3.5 mm
Colour				black
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	3.50	0.138	50	1001310000
6	7.00	0.276	50	1795200000
8	10.50	0.413	50	1795210000
10	14.00	0.551	50	1795220000
12	17.50	0.689	50	1795230000
14	21.00	0.827	50	1795240000
16	24.50	0.965	50	1795250000
18	28.00	1.102	20	1795260000
20	31.50	1.240	20	1795270000
22	35.00	1.378	20	1795280000
24	38.50	1.516	20	1795290000
26	42.00	1.654	20	1795300000
28	45.50	1.791	20	1795310000
30	49.00	1.929	20	1795320000
32	52.50	2.067	20	1795330000
34	56.00	2.205	20	1795340000
36	59.50	2.343	20	1795350000

1.5 mm solder pins on request

S2L-SMT 3.50/./180LF Tape

with solder flange in tape



Dimensioned drawing

Ordering data

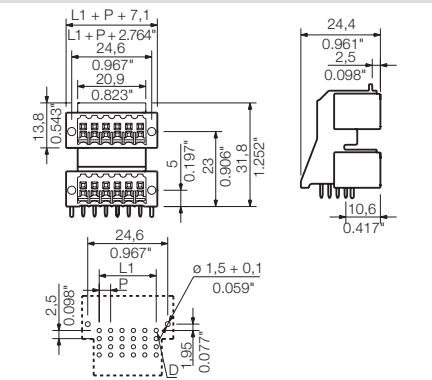
Solder pin length			3.5 mm	
Colour			black	
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
6	7.00	0.276	175	1807870000
8	10.50	0.413	175	1807880000
10	14.00	0.551	175	1807890000
12	17.50	0.689	175	1807900000
14	21.00	0.827	175	1807910000
16	24.50	0.965	175	1807920000
18	28.00	1.102	175	1807930000
20	31.50	1.240	175	1807940000

1.5 mm solder pins on request
Tape widths: 32, 44, 56, 72, 88

S2LD-THR 3.50/./90LF



Dimensioned drawing



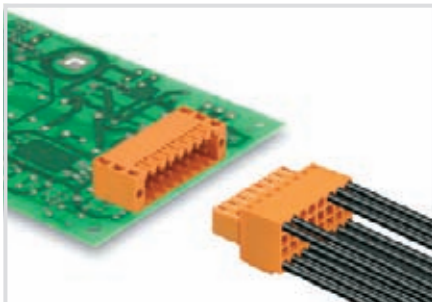
Ordering data

Solder pin length		3.2 mm		
Colour		black		
Pitch		3.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
8	3.50	0.138	50	1028370000
12	7.00	0.276	50	1028390000
16	10.50	0.413	20	1028410000
20	14.00	0.551	20	1028420000
24	17.50	0.689	20	1045390000
28	21.00	0.827	20	1028430000
32	24.50	0.965	20	1028440000
36	28.00	1.102	20	1028450000

Double-row connectors in 3.50 mm pitch

Series B2L/S2L 3.50

S2L 3.50/././90



Angled, double-row male header. Male headers with 3.5 mm pins that are designed for wave soldering and are packaged in a box. Available in closed (G) version and with screw flange (F).

Product data

IEC: 250 V / 10 A
UL: 150 V / 10 A

For additional articles and information, refer to catalog.weidmuller.com

Note:

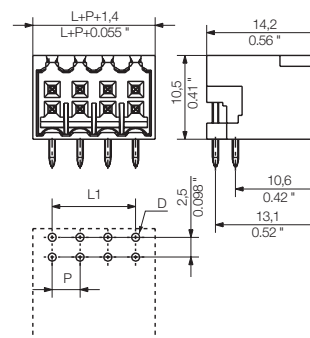
- Additional colours on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section and min. No. of poles.
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

S2L 3.50/././90G

closed ends



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	10	9
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	80	125 250
Rated impulse voltage	kV	2.5	2.5 2.5
UL / CUL (Use Group)		B	C D
Rated voltage	V	150	50
Rated current	A	10	10
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	150	
Rated current	A	5	
AWG conductor	AWG		-
General data			
Type of insulation material		PBT	
Flammability class UL 94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0, Octagonal	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
B2L/S2L 3.5 KO OR	1849730000
B2L/S2L 3.5 KO SW	1849740000
LED light guide	
S2L 3.5 FLA 20/10	1699580000
Mounting screw	
PTSC KA 22X4.5	1610740000

Ordering data

Solder pin length				3.5 mm	3.5 mm
Colour				orange	black
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
6	7.00	0.276	50	1727830000	1727990000
8	10.50	0.413	50	1727840000	1728000000
10	14.00	0.551	50	1727850000	1728010000
12	17.50	0.689	50	1727860000	1728020000
14	21.00	0.827	50	1727870000	1728030000
16	24.50	0.965	50	1727880000	1728040000
18	28.00	1.102	20	1727890000	1728050000
20	31.50	1.240	20	1727900000	1728060000
22	35.00	1.378	20	1727910000	1728070000
24	38.50	1.516	20	1727920000	1728080000
26	42.00	1.654	20	1727930000	1728090000
28	45.50	1.791	20	1727940000	1728100000
30	49.00	1.929	20	1727950000	1728110000
32	52.50	2.067	20	1727960000	1728120000
34	56.00	2.205	20	1727970000	1728130000
36	59.50	2.343	20	1727980000	1728140000

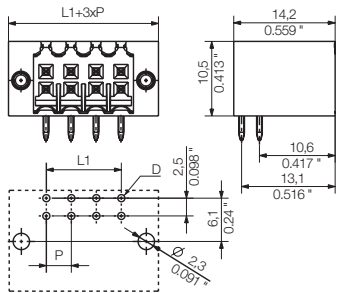
For open version, see online catalogue

S2L 3.50/./90F

with screw flange



Dimensioned drawing



Ordering data

Solder pin length				3.5 mm	3.5 mm
Colour				orange	black
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
6	7.00	0.276	50	1728470000	1728630000
8	10.50	0.413	50	1728480000	1728640000
10	14.00	0.551	50	1728490000	1728650000
12	17.50	0.689	50	1728500000	1728660000
14	21.00	0.827	50	1728510000	1728670000
16	24.50	0.965	50	1728520000	1728680000
18	28.00	1.102	20	1728530000	1728690000
20	31.50	1.240	20	1728540000	1728700000
22	35.00	1.378	20	1728550000	1728710000
24	38.50	1.516	20	1728560000	1728720000
26	42.00	1.654	20	1728570000	1728730000
28	45.50	1.791	20	1728580000	1728740000
30	49.00	1.929	20	1728590000	1728750000
32	52.50	2.067	20	1728600000	1728760000
34	56.00	2.205	20	1728610000	1728770000
36	59.50	2.343	20	1728620000	1728780000

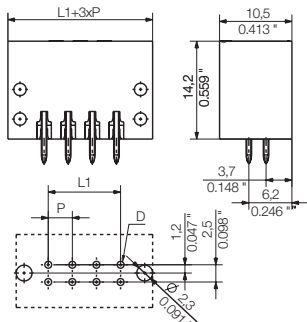
For open version, see online catalogue

S2L 3.50/./180F

with screw flange



Dimensioned drawing



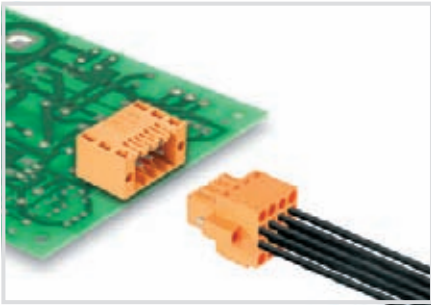
Ordering data

Solder pin length				3.5 mm	3.5 mm
Colour				orange	black
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
6	7.00	0.276	50	1729430000	1729590000
8	10.50	0.413	50	1729440000	1729600000
10	14.00	0.551	50	1729450000	1729610000
12	17.50	0.689	50	1729460000	1729620000
14	21.00	0.827	50	1729470000	1729630000
16	24.50	0.965	50	1729480000	1729640000
18	28.00	1.102	20	1729490000	1729650000
20	31.50	1.240	20	1729500000	1729660000
22	35.00	1.378	20	1729510000	1729670000
24	38.50	1.516	20	1729520000	1729680000
26	42.00	1.654	20	1729530000	1729690000
28	45.50	1.791	20	1729540000	1729700000
30	49.00	1.929	20	1729550000	1729710000
32	52.50	2.067	20	1729560000	1729720000
34	56.00	2.205	20	1729570000	1729730000
36	59.50	2.343	20	1729580000	1729740000

For open version, see online catalogue

Double-row connectors in 3.50 mm pitch
Series B2L/S2L 3.50

B2L 3.50/./180



Female plugs with tension-clamp wire connections make wiring quick and simple.

- Many wire connections possible in a small space.
- Available as a flange or release lever (LH) version
- standard version which can be aligned side by side without loss of poles.
- Plugs provide space for labelling and can be coded.

Product data

IEC: 200 V / 10.3 A / 0.2 - 1 mm²
UL: 300 V / 10 A / AWG 28 - 16

For additional articles and information, refer to catalog.weidmueller.com

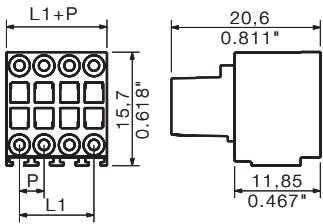
Note:

- 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 with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drg. = pitch
- We recommend crimp shape A for wire-end ferrules with crimping tools PZ 1.5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for the larger wire cross-sections.
- 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.

B2L 3.50/./180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.08...1	
Solid core H05(07) V-U	mm ²	0.2...1	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1	
Flexible with ferrule	mm ²	0.13...0.34	
Ferrule with plastic collar	mm ²	0.13...0.34	
Stripping length	mm	7	
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	10.3	8.9
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	80 160 200	
Rated impulse voltage	kV	2.5 2.5 2.5	
UL / CUL (Use Group)		B C D	
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	28-16	
CSA (Use Group)		B C D	
Rated voltage	V	300	
Rated current	A	5	
AWG conductor	AWG	28-18	
General data			
Type of insulation material		PBT	
Flammability class UL 94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

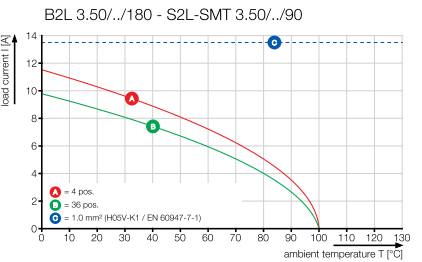
Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	B2L/S2L 3.5 KO OR	1849730000
	B2L/S2L 3.5 KO SW	1849740000
Hood		
	B2L 3.5-AH 10 SW	1781580000
	B2L 3.5-AH 12 SW	1781590000
	B2L 3.5-AH 14 SW	1781600000
	B2L 3.5-AH 16 SW	1781610000
	B2L 3.5-AH 18 SW	1781620000
	B2L 3.5-AH 20 SW	1781630000
	B2L 3.5-AH 22 SW	1781640000
	B2L 3.5-AH 24 SW	1781650000
	B2L 3.5-AH 26 SW	1781660000
	B2L 3.5-AH 28 SW	1781670000
	B2L 3.5-AH 30 SW	1781680000
	B2L 3.5-AH 32 SW	1781690000
	B2L 3.5-AH 34 SW	1781700000
	B2L 3.5-AH 36 SW	1781710000
	B2L 3.5-AH 6 SW	1781560000
	B2L 3.5-AH 8 SW	1781570000
Screwdriver		
	SD 0,4x2,5x75	9009030000
Crimping tool		
	PZ 1.5	9005990000
	PZ 6/5	9011460000

Ordering data

Solder pin length						
Colour		orange	black			
Pitch 3.50 mm						
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
4	3.50	0.138	50	1006630000	1920840000	
6	7.00	0.276	50	1727560000	1727640000	
8	10.50	0.413	50	1727570000	1727650000	
10	14.00	0.551	50	1727580000	1727660000	
12	17.50	0.689	50	1727590000	1727670000	
14	21.00	0.827	50	1727600000	1727680000	
16	24.50	0.965	50	1727610000	1727690000	
18	28.00	1.102	20	1727620000	1727700000	
20	31.50	1.240	20	1727630000	1727710000	
22	35.00	1.378	20	1747850000	1747930000	
24	38.50	1.516	20	1747860000	1747940000	
26	42.00	1.654	20	1747870000	1747950000	
28	45.50	1.791	20	1747880000	1747960000	
30	49.00	1.929	20	1747890000	1747970000	
32	52.50	2.067	20	1747900000	1747980000	
34	56.00	2.205	20	1747910000	1747990000	
36	59.50	2.343	20	1747920000	1748000000	

Representative derating curve

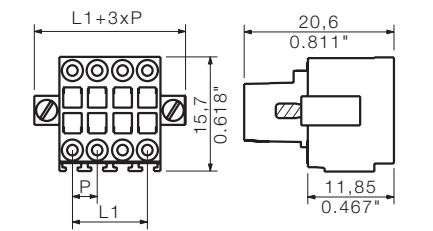


B2L 3.50/./180F

with flange



Dimensioned drawing



Ordering data

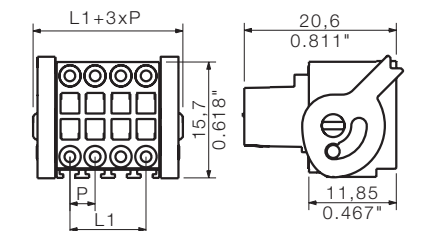
Solder pin length					
Colour		orange		black	
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	50	1001260000	1001270000
6	7.00	0.276	50	1748010000	1748170000
8	10.50	0.413	50	1748020000	1748180000
10	14.00	0.551	50	1748030000	1748190000
12	17.50	0.689	50	1748040000	1748200000
14	21.00	0.827	50	1748050000	1748210000
16	24.50	0.965	50	1748060000	1748220000
18	28.00	1.102	20	1748070000	1748230000
20	31.50	1.240	20	1748080000	1748240000
22	35.00	1.378	20	1748090000	1748250000
24	38.50	1.516	20	1748100000	1748260000
26	42.00	1.654	20	1748110000	1748270000
28	45.50	1.791	20	1748120000	1748280000
30	49.00	1.929	20	1748130000	1748290000
32	52.50	2.067	20	1748140000	1748300000
34	56.00	2.205	20	1748150000	1748310000
36	59.50	2.343	20	1748160000	1748320000

B2L 3.50/./180LH

with release lever



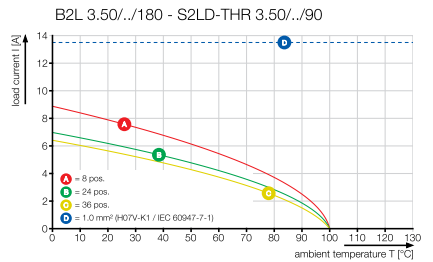
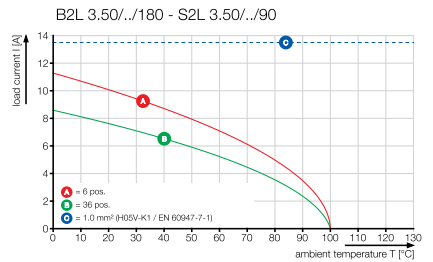
Dimensioned drawing



Ordering data

Solder pin length					
Colour		orange		black	
Pitch		3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	50	1001280000	1001290000
6	7.00	0.276	50	1748330000	1748490000
8	10.50	0.413	50	1748340000	1748500000
10	14.00	0.551	50	1748350000	1748510000
12	17.50	0.689	50	1748360000	1748520000
14	21.00	0.827	50	1748370000	1748530000
16	24.50	0.965	50	1748380000	1748540000
18	28.00	1.102	20	1748390000	1748550000
20	31.50	1.240	20	1748400000	1748560000
22	35.00	1.378	20	1748410000	1748570000
24	38.50	1.516	20	1748420000	1748580000
26	42.00	1.654	20	1748430000	1748590000
28	45.50	1.791	20	1748440000	1748600000
30	49.00	1.929	20	1748450000	1748610000
32	52.50	2.067	20	1748460000	1748620000
34	56.00	2.205	20	1748470000	1748630000
36	59.50	2.343	20	1748480000	1748640000

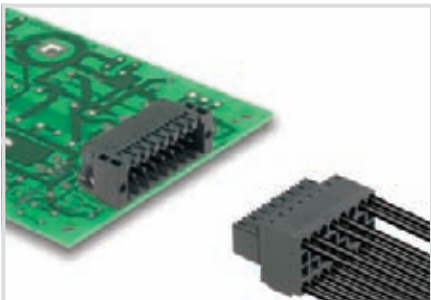
Additional derating curves



Double-row connectors in 3.50 mm pitch

Series B2L/S2L 3.50

B2L 3.50/./180 QV



Female plugs with integral cross-connection.

- Cross-connection is positioned vertically between the poles of rows directly on top of each other.
- Tension clamp connection with straight outlet and 3.5 mm pitch.
- Flange (F) and release lever (LH) available.

Product data

IEC: 200 V / 10.6 A / 0.2 - 1 mm²
UL: 300 V / 7 A / AWG 28 - 18

For additional articles and information, refer to catalog.weidmueller.com

Note:

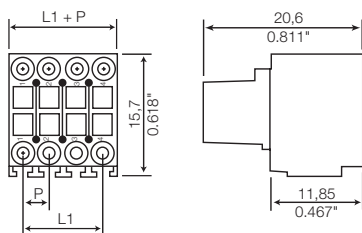
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drg. = pitch
- We recommend crimp shape A for wire-end ferrules with crimping tool PZ 6/5 (order no. 9011460000) for the larger wire cross-sections.
- 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.

B2L 3.50/./180QV

with cross-connection



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.08...1	
Solid core H05(07) V-U	mm ²	0.2...1	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1	
Flexible with ferrule	mm ²	0.13...0.34	
Ferrule with plastic collar	mm ²	0.13...0.34	
Stripping length	mm	7	
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	10.6	9.1
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	80 160 200	
Rated impulse voltage	kV	1.5 2.5 2.5	
UL / CUL (Use Group)		B C D	D
Rated voltage	V	300	300
Rated current	A	7	7
AWG conductor	AWG	28-18	
CSA (Use Group)		B C D	D
Rated voltage	V	300	
Rated current	A	7	
AWG conductor	AWG	28-18	
General data			
Type of insulation material		PBT	
Flammability class UL 94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

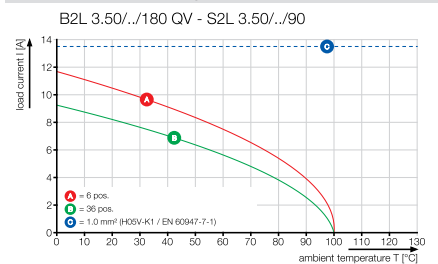
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
B2L/S2L 3.5 KO OR	1849730000
B2L/S2L 3.5 KO SW	1849740000
Hood	
B2L 3.5-AH 10 SW	1781580000
B2L 3.5-AH 12 SW	1781590000
B2L 3.5-AH 14 SW	1781600000
B2L 3.5-AH 16 SW	1781610000
B2L 3.5-AH 18 SW	1781620000
B2L 3.5-AH 20 SW	1781630000
B2L 3.5-AH 22 SW	1781640000
B2L 3.5-AH 24 SW	1781650000
B2L 3.5-AH 26 SW	1781660000
B2L 3.5-AH 28 SW	1781670000
B2L 3.5-AH 30 SW	1781680000
B2L 3.5-AH 32 SW	1781690000
B2L 3.5-AH 34 SW	1781700000
B2L 3.5-AH 36 SW	1781710000
B2L 3.5-AH 6 SW	1781560000
B2L 3.5-AH 8 SW	1781570000
Screwdriver	
SD 0,4x2,5x75	9009030000
Crimping tool	
PZ 1.5	9005990000
PZ 6/5	9011460000

Ordering data

Solder pin length				
Colour				black
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
6	7.00	0.276	50	1944590000
8	10.50	0.413	50	1944600000
10	14.00	0.551	50	1944610000
12	17.50	0.689	50	1944620000
14	21.00	0.827	20	1944630000
16	24.50	0.965	20	1944640000
18	28.00	1.102	20	1944650000

Representative derating curve

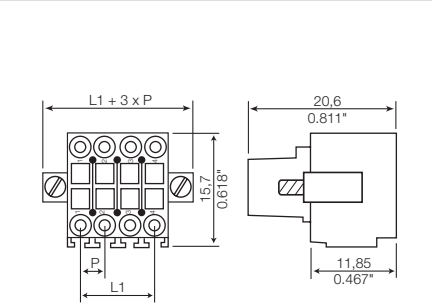


B2L 3.50/././180FQV

with cross-connection and flange



Dimensioned drawing



Ordering data

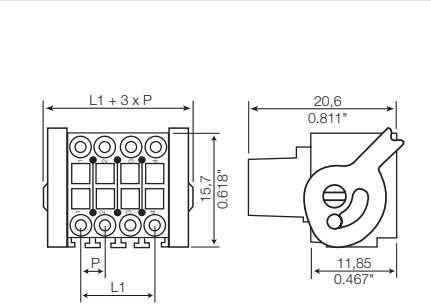
Solder pin length					
Colour					black
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	
6	7.00	0.276	50	1944670000	
8	10.50	0.413	50	1944680000	
10	14.00	0.551	50	1944690000	
12	17.50	0.689	50	1944700000	
14	21.00	0.827	20	1944710000	
16	24.50	0.965	20	1944720000	
18	28.00	1.102	20	1944730000	

B2L 3.50/././180LHQV

with cross-connection and release lever



Dimensioned drawing



Ordering data

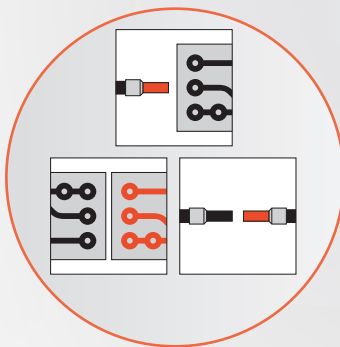
Solder pin length					
Colour					black
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	
6	7.00	0.276	50	1944750000	
8	10.50	0.413	50	1944760000	
10	14.00	0.551	50	1944770000	
12	17.50	0.689	50	1944780000	
14	21.00	0.827	20	1944790000	
16	24.50	0.965	20	1944800000	
18	28.00	1.102	20	1944810000	

Excellent design & performance: the single row SL/BL Connector system with 3.50 pitch and the connection of I/Os

Extensive range of male headers and female plugs that cover different angles to the PCB and conductor angle to the field as well as a large range of accessories make the 3.50 mm pitch very versatile.

Strong in performance and connections, compact in its size:

- Wire cross-sections from 0.20 to 1.5 mm² (AWG 28-14)
- Wire connection without special tools
- More than just extra-low voltages: up to 250 V (IEC) / 300 V (UL)
- More than enough: up to 17 A (IEC) / 10 A (UL)



Consistent system approach

Implement wire-2-board, board-2-board or wire-2-wire connections. Decide for yourself on the soldering and connection techniques.

Maximum packing density

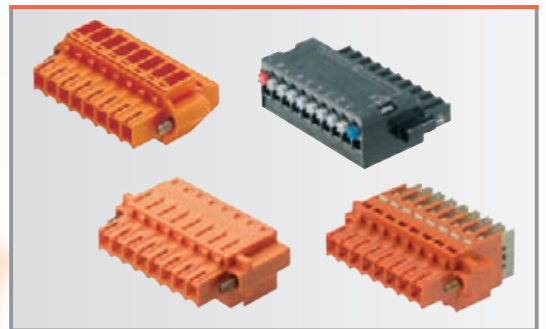
Either in a device using double layer male headers SLD or in the field using a 3 row socket connector BL-I/O.

Advanced application possibilities



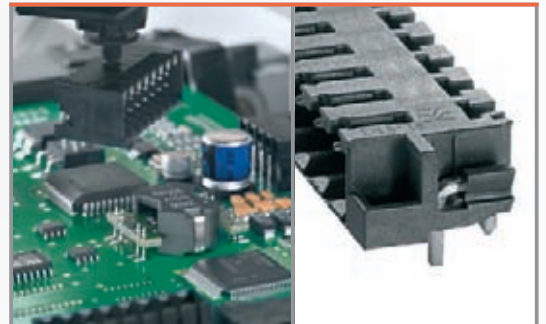
The extensive range of accessories increases the versatility and permits any desired combination of male headers and female plugs.

Versatile field connection



Choose your individual connection from the classic screw connection BL, the future-proof PUSH-IN connection BL-I/O, the proven tension-clamp system BLZF or the quick connection BLIDCB.

Optimum processing



The tape-on-reel packaging for high temperature-resistant male headers made of LCP guarantees a suitable product for automated processing. The integrated solder flange significantly increases the PCB's stability and replaces the screw that would normally be added later.

Release latch or screw flange

The release latch guarantees a good connection between the female plug and the device and also, particularly for systems with many pins, ensures an assembly protecting release of the connection. The screw flange creates a vibration and shake-proof connection between the panel connection and the device.

Small – smaller – BL-I/O: minimal size – maximum functionality

You have a free choice for the field wiring: whether you prefer the compact version with our 3 row female plug BL-I/O 3.50/30-poles or rather conventional systems with terminals or interface modules lowercase's. Since the female plug BL-I/O 3.50 based I/O systems are backwards compatible with existing field connections.

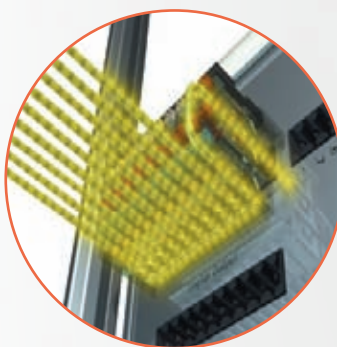
C

The female plug BL-I/O 3.50 mm pitch is an

- extremely compact,
 - 1 or 3 row female plug
- suitable for connection of remote sensors and/or actuators with
- integrated LED display
 - integrated cross-connections for potential distribution.

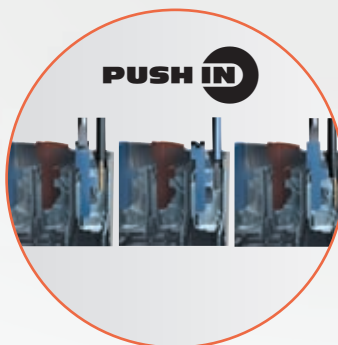
For efficient remote functional units in the field level the female plug BL-I/O 3.50 is a space saving solution to connect I/O components.

Savings from the female connector BL-I/O are apparent in the development and the manufacturing of the PCB. The layout is simplified by 62 % and fewer layers are required.



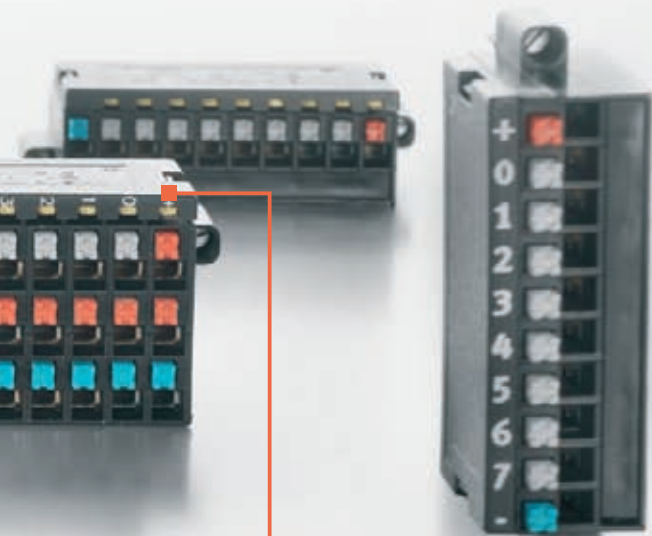
Multiply your potential

Special cross-connectors, that are integrated into the second and third rows of the female plug, distribute the supply voltage to the individual I/O channels. In this way you can input, transfer or bridge the supply voltage. Thus you can save space with the I/O electronics and you can reduce your wiring overhead.

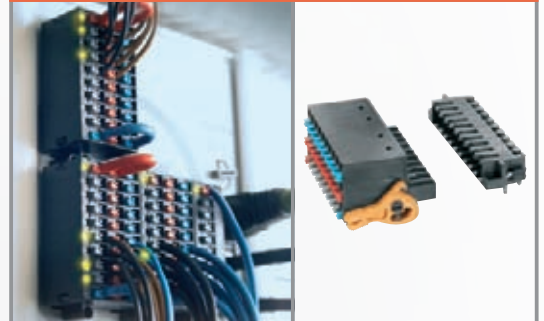


... as simple as that

Simply insert solid or flexible conductors with ferrules. The simple pressing of one button opens the terminal connections and allows you to insert the flexible wire without ferrules in no time at all. Disconnecting the wire is just as easy: press the button and pull out the wire.

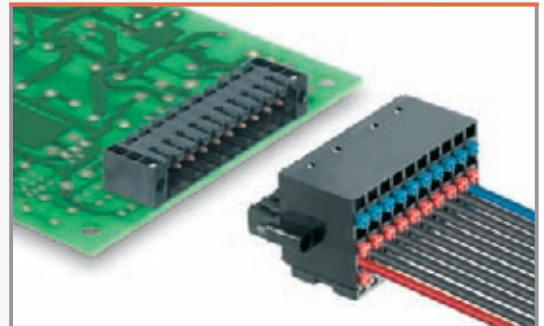


Intuitive locking and releasing



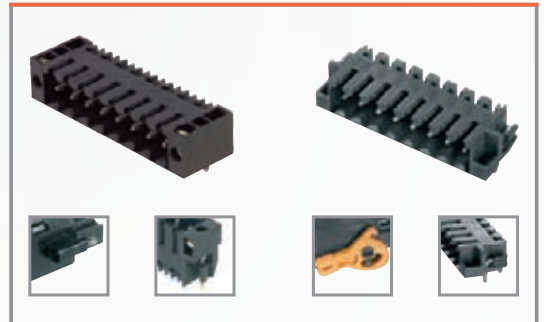
The 3 row female plug BL-I/O 3.50/30/180LR with lock & release lever to allow tool free interlocking and electronic assembly protecting release with the new male header SL-SMT 3.50/10/.../RF with clip-on flange

Rugged screw flange

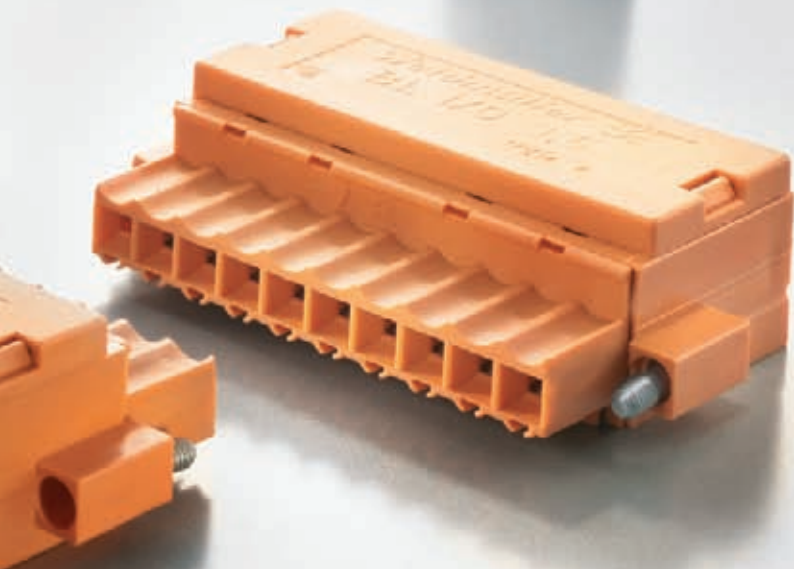


The 3 row female plug BL-I/O 3-5/30/180F with screw flange for vibration and shock resistant interlocking in conjunction with the male header SL-SMT 3.50/10/.../LF with solder flange.

Screwless PCB fastening - suitable for automatic assembly



The male header SL-SMT has a clip-on flange for the release latch and is available as solder flange variant for the screw flange. In both variants the extra solder pin replaces the screw that would have to be added later and significantly increases the mechanical stability to the PCB.



Integrated LEDs

Since power is supplied directly through the female plug BL-I/O 3.50, functional control of the sensor wiring is possible without any additionally connected I/O electronics. That simplifies initial commissioning and also clears up space on the control unit.

Connectors in 3.50 mm pitch - Series BL/SL 3.50

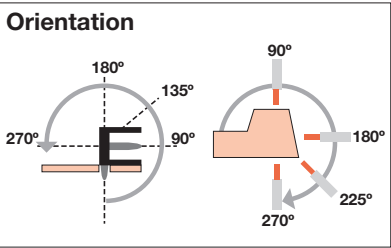
Explanation

= Wire to board

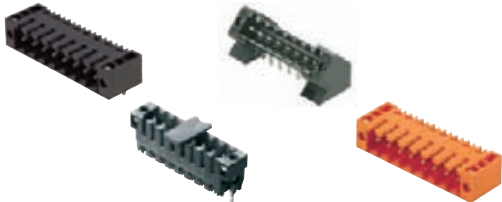
= Board to board

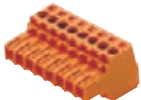
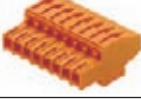
= Wire to wire

= Board to wire



Reflow solder connection



				Levels		1			1		
		Type				SL-SMT	SL-SMT	SL-THR	SL		
				Orientation		90°	180°	135°	90°		
				Flange options		G/F/LF/RF	G/F/LF	F	(O)/G/F		
				Page		C.26	C.29	C.37	C.32		
Female plug	 Screw: Clamping yoke		BL	180°	(G)/F/LH/LR	C.44					
			BL	90°	(G)/F	C.46					
			BL	270°	(G)/F	C.47					
	 Tension clamp		BLZF	180°	(G)/F/LH/LR	C.48					
	 IDC Bus		BLIDCB	180°	(G)/F	C.50					
	 Spring: PUSH IN		BL-I/O	180°	F/LR	C.52					
			BL-I/O	180°	F/LR	C.53					

Female plug:
(G)*= Closed (without flange)
F = Screw flange with screw
LH = Release lever
LR = Lock & Release lever

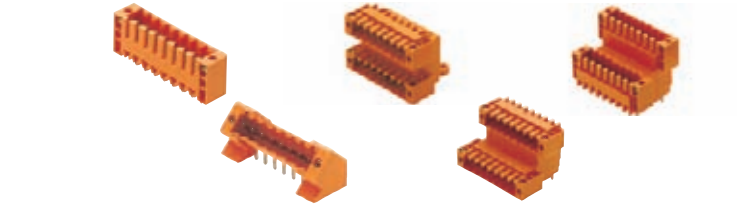
Male header:
(O)*= open
G = Closed (without flange)
F = Flange with nut
LF = Solder flange with nut
RF = Locking flange for LH/LR with solder pin

* not included in the article description

Male header



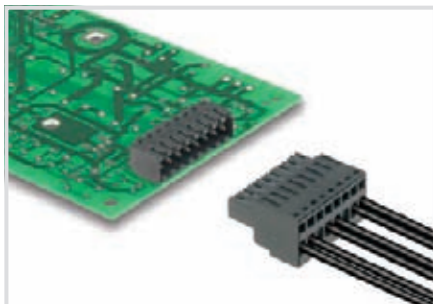
Solder connection



1		2			
SL	SL	SLD	SLD V	SLD V	
180°	135°	90°	90°	180°	
(O)/G/F	F	G/F	G/F	G/F	
C.34	C.36	C.38	C.40	C.42	
					
					
					
					
					
					
					

Connectors in 3.50 mm pitch Series BL/SL 3.50

SL-SMT 3.50/./90



High-temperature-resistant, angled, male header for all common soldering methods in 3.5 mm pitch.

- Optimised for SMT processing.
- 3.2 mm older pin suitable for reflow and wave soldering.
- The Male headers provide space for labelling and can be coded.
- Available in closed (G) version and with solder flange (LF).
- Packed either in box (BX) or on tape-on-reel (RL).

Product data

IEC: 320 V / 15 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

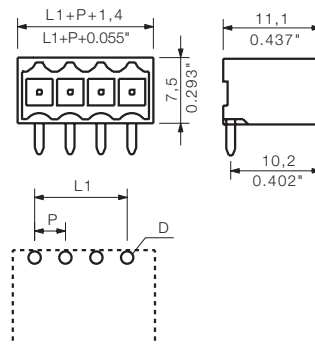
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Diameter of solder eyelet $D = 1.5 \pm 0.1$ mm from 9-pole
- 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.

SL-SMT 3.50/./90G Box



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	15	13	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
CSA (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
Flammability class UL 94		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.4		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.	
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Interlock		
	BL/SL 3.5 VR OR	1669310000
	BL/SL 3.5 VR SW	1669300000
LED light guide		
	SL 3.5 FLA 1.5/1.75/8	1597630000
	SL 3.5 FLA 1.5/8	1597510000
	SL 3.5 FLA 2.3/1.75/8	1597640000
	SL 3.5 FLA 2.3/8	1597520000
	SL 3.5 FLA 4.0/1.75/8	1597650000
	SL 3.5 FLA 4.0/8	1597530000
Mounting screw		
	PTSC KA 22X4.5	1610740000

Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1761542001	1841630000
3	7.00	0.276	100	1761552001	1841640000
4	10.50	0.413	100	1761562001	1841650000
5	14.00	0.551	50	1761572001	1841660000
6	17.50	0.689	50	1761582001	1841670000
7	21.00	0.827	50	1761592001	1841680000
8	24.50	0.965	50	1761602001	1841690000
9	28.00	1.102	50	1761612001	1841700000
10	31.50	1.240	50	1761622001	1841710000
11	35.00	1.378	50	1761632001	1841720000
12	38.50	1.516	50	1761642001	1841730000
13	42.00	1.654	50	1761652001	1841740000
14	45.50	1.791	50	1761662001	1841750000
15	49.00	1.929	50	1761672001	1841760000
16	52.50	2.067	50	1761682001	1841770000
17	56.00	2.205	20	1761692001	1841780000
18	59.50	2.343	20	1761702001	1841790000
19	63.00	2.480	20	1761712001	1841800000
20	66.50	2.618	20	1761722001	1841810000
21	70.00	2.756	20	1761732001	1841820000
22	73.50	2.894	20	1761742001	1841830000
23	77.00	3.031	20	1761752001	1841840000
24	80.50	3.169	20	1761762001	1841850000

SL-SMT 3.50/./90G Tape

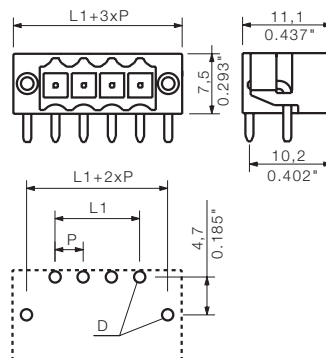


Dimensioned drawing

SL-SMT 3.50/./90LF Box



Dimensioned drawing



SL-SMT 3.50/./90LF Tape



Dimensioned drawing

Ordering data

Solder pin length			1.5 mm	
Colour			black	
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	385	1761544002
3	7.00	0.276	385	1761554002
4	10.50	0.413	385	1761564002
5	14.00	0.551	385	1761574002
6	17.50	0.689	385	1761584001
7	21.00	0.827	385	1761594001
8	24.50	0.965	385	1761604001
9	28.00	1.102	385	1761614001
10	31.50	1.240	385	1761624001
11	35.00	1.378	385	1761634001

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

Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch		3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1804940000	1841860000
3	7.00	0.276	100	1804950000	1841870000
4	10.50	0.413	100	1804960000	1841880000
5	14.00	0.551	50	1804970000	1841890000
6	17.50	0.689	50	1804980000	1841900000
7	21.00	0.827	50	1804990000	1841910000
8	24.50	0.965	50	1805000000	1841920000
9	28.00	1.102	50	1805010000	1841930000
10	31.50	1.240	50	1805020000	1841940000
11	35.00	1.378	50	1805030000	1841950000
12	38.50	1.516	50	1805040000	1804340000
13	42.00	1.654	50	1805050000	1841960000
14	45.50	1.791	50	1805060000	1841970000
15	49.00	1.929	50	1805070000	1841980000
16	52.50	2.067	50	1805080000	1841990000
17	56.00	2.205	20	1805090000	1842000000
18	59.50	2.343	20	1805100000	1842010000
19	63.00	2.480	20	1805110000	1842020000
20	66.50	2.618	20	1805120000	1842030000
21	70.00	2.756	20	1805130000	1842040000
22	73.50	2.894	20	1805140000	1842050000
23	77.00	3.031	20	1805150000	1842060000
24	80.50	3.169	20	1805160000	1842070000

Ordering data

Solder pin length			1.5 mm	
Colour			black	
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	385	1805310000
3	7.00	0.276	385	1805320000
4	10.50	0.413	385	1805330000
5	14.00	0.551	385	1805340000
6	17.50	0.689	385	1805350000
7	21.00	0.827	385	1805360000
8	24.50	0.965	385	1805370000
9	28.00	1.102	385	1805380000
10	31.50	1.240	385	1005180000

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

Connectors in 3.50 mm pitch

Series BL/SL 3.50

SL-SMT 3.50/.. / F & RF



High-temperature-resistant, straight and angled, male header for all common soldering methods in 3.5 mm pitch.

- Optimised for the SMT processing.
- 3.2 mm solder pin suitable for reflow and wave soldering.
- Available in screw flange (F) and with solder flange for lock and release lever (RF).

Product data

IEC: 320 V / 15 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

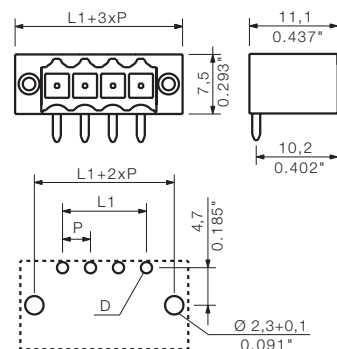
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Diameter of solder eyelet $D = 1.5 + 0.1 \text{ mm}$ from 9-pole
- 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.

SL-SMT 3.50/.. /90F Box



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm ²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	15	13
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	160	160 320
Rated impulse voltage	kV	2.5	2.5 2.5
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG		-
General data			
Type of insulation material		LCP GF	
Flammability class UL 94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet $\varnothing = D$	mm	1.4	
Solder eyelet $\varnothing$ tolerance	mm	+ 0.1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Interlock		
	BL/SL 3.5 VR OR	1669310000
	BL/SL 3.5 VR SW	1669300000
LED light guide		
	SL 3.5 FLA 1.5/1.75/8	1597630000
	SL 3.5 FLA 1.5/8	1597510000
	SL 3.5 FLA 2.3/1.75/8	1597640000
	SL 3.5 FLA 2.3/8	1597520000
	SL 3.5 FLA 4.0/1.75/8	1597650000
	SL 3.5 FLA 4.0/8	1597530000

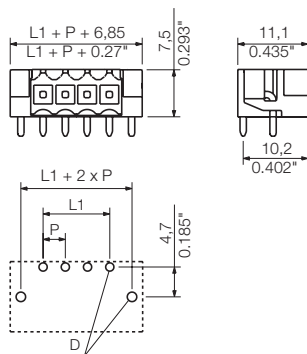
Ordering data

Solder pin length			3.2 mm	
Colour			black	
Pitch		3.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1842080000
3	7.00	0.276	100	1842090000
4	10.50	0.413	100	1842100000
5	14.00	0.551	50	1842110000
6	17.50	0.689	50	1842120000
7	21.00	0.827	50	1842130000
8	24.50	0.965	50	1842140000
9	28.00	1.102	50	1842150000
10	31.50	1.240	50	1842160000
11	35.00	1.378	50	1842170000
12	38.50	1.516	50	1842180000
13	42.00	1.654	50	1842190000
14	45.50	1.791	50	1842200000
15	49.00	1.929	50	1842210000
16	52.50	2.067	50	1842220000
17	56.00	2.205	20	1842230000
18	59.50	2.343	20	1842240000
19	63.00	2.480	20	1842250000
20	66.50	2.618	20	1842260000
21	70.00	2.756	20	1842270000
22	73.50	2.894	20	1842280000
23	77.00	3.031	20	1842290000
24	80.50	3.169	20	1842300000

SL-SMT 3.50/./180RF Box



Dimensioned drawing



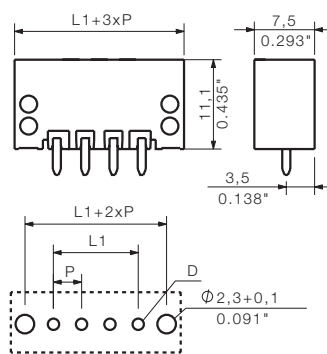
Ordering data

Solder pin length		1.5 mm	
Colour		black	
Pitch	3.50 mm		
Pol.	L1 (inch)	Qty.	Order No.
3	7.00 0.276	100	1060810000
4	10.50 0.413	100	1000600000
5	14.00 0.551	50	1000610000
6	17.50 0.689	50	1000620000
7	21.00 0.827	50	1000630000
8	24.50 0.965	50	1000640000
9	28.00 1.102	50	1000650000
10	31.50 1.138	50	1060780000
11	35.00 1.378	50	1000660000
12	38.50 1.516	50	1000670000
13	42.00 1.654	50	1000680000
14	45.50 1.791	50	1000690000
15	49.00 1.929	50	1000700000
16	52.50 2.067	50	1060820000

SL-SMT 3.50/./180F Box



Dimensioned drawing



Ordering data

Solder pin length		3.2 mm	
Colour		black	
Pitch	3.50 mm		
Pol.	L1 (inch)	Qty.	Order No.
2	3.50 0.138	100	1842770000
3	7.00 0.276	100	1842780000
4	10.50 0.413	100	1842790000
5	14.00 0.551	50	1842800000
6	17.50 0.689	50	1842810000
7	21.00 0.827	50	1842820000
8	24.50 0.965	50	1842830000
9	28.00 1.102	50	1842840000
10	31.50 1.240	50	1842850000
11	35.00 1.378	50	1842860000
12	38.50 1.516	50	1842870000
13	42.00 1.654	50	1842880000
14	45.50 1.791	50	1842890000
15	49.00 1.929	50	1842900000
16	52.50 2.067	50	1842910000
17	56.00 2.205	20	1842920000
18	59.50 2.343	20	1842930000
19	63.00 2.480	20	1842940000
20	66.50 2.618	20	1842950000
21	70.00 2.756	20	1842960000
22	73.50 2.894	20	1842970000
23	77.00 3.031	20	1842980000
24	80.50 3.169	20	1842990000

SL-SMT 3.50/./180F Tape



Dimensioned drawing

Ordering data

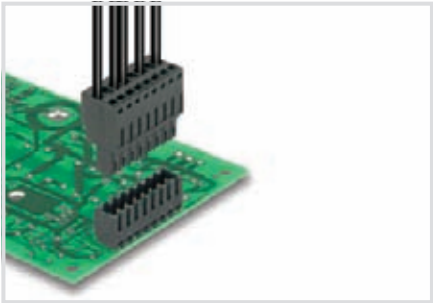
Solder pin length		1.5 mm	
Colour		black	
Pitch	3.50 mm		
Pol.	L1 (inch)	Qty.	Order No.
2	3.50 0.138	100	1760962001
3	7.00 0.276	100	1760972001
4	10.50 0.413	100	1760982001
5	14.00 0.551	50	1760992001
6	17.50 0.689	50	1761002001
8	24.50 0.965	50	1761022001
10	31.50 1.240	50	1761042001
14	45.50 1.791	50	1761082001
18	59.50 2.343	20	1761122001
20	66.50 2.618	20	1761142001

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

Connectors in 3.50 mm pitch

Series BL/SL 3.50

SL-SMT 3.50/././180



High-temperature-resistant, straight male header in 3.50 mm pitch for all conventional soldering methods.

- Optimised for the SMT processing.
- 3.2 mm solder pin suitable for reflow and wave soldering.
- Available in screw flange (F) and with solder flange (LF).
- Packed either in box (BX) or on tape-on-reel (RL).

Product data

IEC: 320 V / 15 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

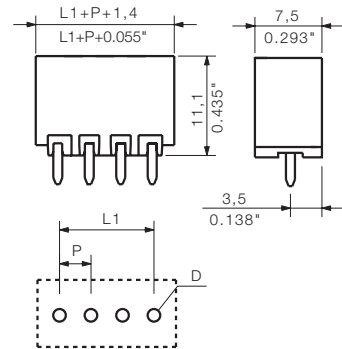
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Diameter of solder eyelet $D = 1.5 \pm 0.1 \text{ mm}$ from 9-pole
- 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.

SL-SMT 3.50/././180G Box



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	15	13	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
CSA (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
Flammability class UL 94		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.4		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Interlock		
	BL/SL 3.5 VR OR	1669310000
	BL/SL 3.5 VR SW	1669300000

Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1752982001	1842320000
3	7.00	0.276	100	1752992001	1842330000
4	10.50	0.413	100	1753002001	1842340000
5	14.00	0.551	50	1753012001	1842350000
6	17.50	0.689	50	1753022001	1842360000
7	21.00	0.827	50	1753032001	1842370000
8	24.50	0.965	50	1753042001	1842380000
9	28.00	1.102	50	1753052001	1842390000
10	31.50	1.240	50	1753062001	1836990000
11	35.00	1.378	50	1753072001	1842400000
12	38.50	1.516	50	1753082001	1842410000
13	42.00	1.654	50	1753092001	1842420000
14	45.50	1.791	50	1753102001	1842430000
15	49.00	1.929	50	1753112001	1842440000
16	52.50	2.067	50	1753122001	1842450000
17	56.00	2.205	20	1753132001	1842460000
18	59.50	2.343	20	1753142001	1842470000
19	63.00	2.480	20	1753152001	1842480000
20	66.50	2.618	20	1753162001	1842490000
21	70.00	2.756	20	1753172001	1842500000
22	73.50	2.894	20	1753182001	1842510000
23	77.00	3.031	20	1753192001	1842520000
24	80.50	3.169	20	1753202001	1842530000

SL-SMT 3.50/./180G Tape

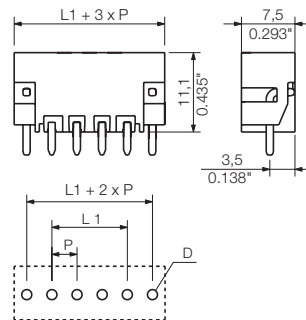


Dimensioned drawing

SL-SMT 3.50/./180LF Box



Dimensioned drawing



SL-SMT 3.50/./180LF Tape



Dimensioned drawing

Ordering data

Solder pin length			1.5 mm	
Colour			black	
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	265	1752984002
3	7.00	0.276	265	1752994002
4	10.50	0.413	265	1753004002
5	14.00	0.551	265	1753014002
6	17.50	0.689	265	1753024001
7	21.00	0.827	265	1753034001
8	24.50	0.965	265	1753044001
9	28.00	1.102	265	1753054001
10	31.50	1.240	265	1753064001
11	35.00	1.378	265	1753074001

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

Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch		3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1804700000	1842540000
3	7.00	0.276	100	1804710000	1842550000
4	10.50	0.413	100	1804720000	1842560000
5	14.00	0.551	50	1804730000	1842570000
6	17.50	0.689	50	1804740000	1842580000
7	21.00	0.827	50	1804750000	1842590000
8	24.50	0.965	50	1804760000	1842600000
9	28.00	1.102	50	1804770000	1842610000
10	31.50	1.240	50	1804780000	1842620000
11	35.00	1.378	50	1804790000	1842630000
12	38.50	1.516	50	1804800000	1842640000
13	42.00	1.654	50	1804810000	1842650000
14	45.50	1.791	50	1804820000	1842660000
15	49.00	1.929	50	1804830000	1842670000
16	52.50	2.067	50	1804840000	1842680000
17	56.00	2.205	20	1804850000	1842690000
18	59.50	2.343	20	1804860000	1842700000
19	63.00	2.480	20	1804870000	1842710000
20	66.50	2.618	20	1804890000	1842720000
21	70.00	2.756	20	1804900000	1842730000
22	73.50	2.894	20	1804910000	1842740000
23	77.00	3.031	20	1804920000	1842750000
24	80.50	3.169	20	1804930000	1842760000

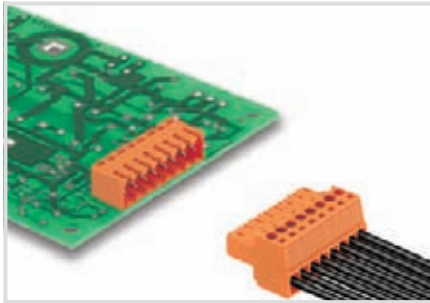
Ordering data

Solder pin length			1.5 mm	
Colour			black	
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	265	1805210000
3	7.00	0.276	265	1805230000
4	10.50	0.413	265	1805240000
5	14.00	0.551	265	1805250000
6	17.50	0.689	265	1805270000
7	21.00	0.827	265	1805280000
8	24.50	0.965	265	1805290000
9	28.00	1.102	265	1805300000

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

Connectors in 3.50 mm pitch Series BL/SL 3.50

SL 3.50/..../90



Angled male header (90° orientation) for wave soldering in 3.5 mm pitch. The male header is available in open, closed (G) and flange (F) versions. Packed in cardboard box.

Product data

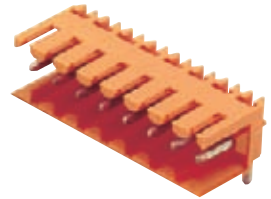
IEC: 320 V / 17 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

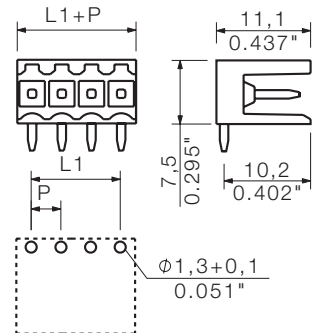
Note:

- 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.

SL 3.50/..../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm ²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	17	14.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	160	160 320
Rated impulse voltage	kV	2.5	2.5 2.5
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG		-
General data			
Type of insulation material		PBT	
Flammability class UL 94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

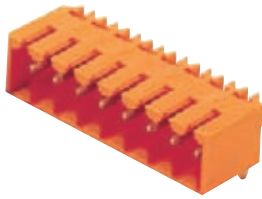
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BL SL 3.5 KO OR	1693430000
BL SL 3.5 KO SW	1610100000
Interlock	
BL/SL 3.5 VR OR	1669310000
BL/SL 3.5 VR SW	1669300000
LED light guide	
SL 3.5 FLA 1.5/1.75/8	1597630000
SL 3.5 FLA 1.5/8	1597510000
SL 3.5 FLA 2.3/1.75/8	1597640000
SL 3.5 FLA 2.3/8	1597520000
SL 3.5 FLA 4.0/1.75/8	1597650000
SL 3.5 FLA 4.0/8	1597530000
Mounting screw	
PTSC KA 22X4.5	1610740000

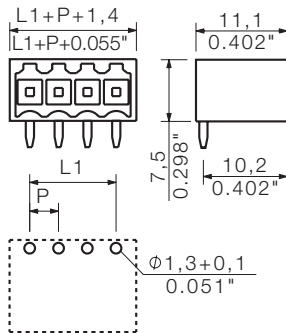
Ordering data

Solder pin length			3.2 mm	
Colour			orange	
Pitch		3.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1597210000
3	7.00	0.276	100	1597220000
4	10.50	0.413	100	1597230000
5	14.00	0.551	50	1597240000
6	17.50	0.689	50	1597250000
7	21.00	0.827	50	1597260000
8	24.50	0.965	50	1597270000
9	28.00	1.102	50	1597280000
10	31.50	1.240	50	1597290000
11	35.00	1.378	50	1597300000
12	38.50	1.516	50	1597310000
13	42.00	1.654	50	1597320000
14	45.50	1.791	50	1597330000
15	49.00	1.929	50	1597340000
16	52.50	2.067	50	1597350000
17	56.00	2.205	20	1618990000
18	59.50	2.343	20	1619000000
19	63.00	2.480	20	1619010000
20	66.50	2.618	20	1619020000
21	70.00	2.756	20	1619030000
22	73.50	2.894	20	1619040000
23	77.00	3.031	20	1619050000
24	80.50	3.169	20	1619060000

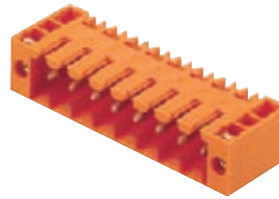
SL 3.50/./90G



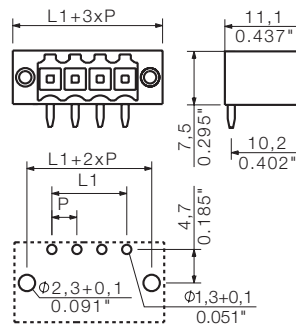
Dimensioned drawing



SL 3.50/./90F



Dimensioned drawing



Ordering data

Solder pin length		3.2 mm
Colour		orange
Pitch	3.50 mm	
Pol.	L1	(inch)
2	3.50	0.138
3	7.00	0.276
4	10.50	0.413
5	14.00	0.551
6	17.50	0.689
7	21.00	0.827
8	24.50	0.965
9	28.00	1.102
10	31.50	1.240
11	35.00	1.378
12	38.50	1.516
13	42.00	1.654
14	45.50	1.791
15	49.00	1.929
16	52.50	2.067
17	56.00	2.205
18	59.50	2.343
19	63.00	2.480
20	66.50	2.618
21	70.00	2.756
22	73.50	2.894
23	77.00	3.031
24	80.50	3.169
Qty.	Order No.	
100	1605070000	
100	1605080000	
100	1605090000	
50	1605100000	
50	1605110000	
50	1605120000	
50	1605130000	
50	1605140000	
50	1605150000	
50	1605160000	
50	1605170000	
50	1605180000	
50	1605190000	
50	1605200000	
50	1605210000	
20	1619380000	
20	1619390000	
20	1619400000	
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20	1619420000	
20	1619430000	
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20	1619450000	

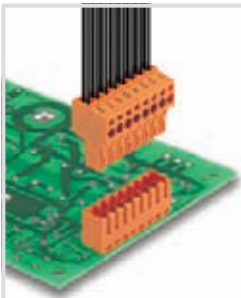
Ordering data

Solder pin length		3.2 mm
Colour		orange
Pitch	3.50 mm	
Pol.	L1	(inch)
2	3.50	0.138
3	7.00	0.276
4	10.50	0.413
5	14.00	0.551
6	17.50	0.689
7	21.00	0.827
8	24.50	0.965
9	28.00	1.102
10	31.50	1.240
11	35.00	1.378
12	38.50	1.516
13	42.00	1.654
14	45.50	1.791
15	49.00	1.929
16	52.50	2.067
17	56.00	2.205
18	59.50	2.343
19	63.00	2.480
20	66.50	2.618
21	70.00	2.756
22	73.50	2.894
23	77.00	3.031
24	80.50	3.169
Qty.	Order No.	
100	1607040000	
100	1607050000	
100	1607060000	
50	1607070000	
50	1607080000	
50	1607090000	
50	1607100000	
50	1607110000	
50	1607120000	
50	1607130000	
50	1607140000	
50	1607150000	
50	1607160000	
50	1607170000	
50	1607180000	
20	1619770000	
20	1619780000	
20	1619790000	
20	1619800000	
20	1619810000	
20	1619820000	
20	1619830000	
20	1619840000	

Connectors in 3.50 mm pitch

Series BL/SL 3.50

SL 3.50/..../180



Straight male header (180° orientation) for wave soldering in 3.5 mm pitch. The male header is available in open, closed (G) and flange (F) versions. Packed in cardboard box.

Product data

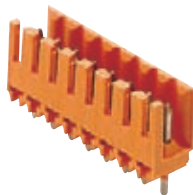
IEC: 320 V / 17 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

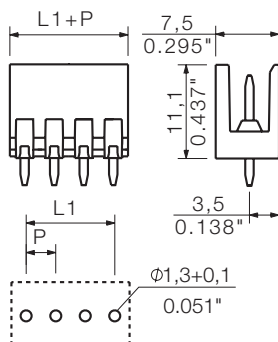
Note:

- 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.

SL 3.50/..../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17	14.5	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
CSA (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material			PBT	
Flammability class UL 94			V-0	
Contact base material			CuSn	
Material of contact surface			tinned	
Pin dimensions = d	mm		1.2, Octagonal	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0,1	

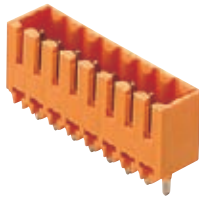
Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Interlock		
	BL/SL 3.5 VR OR	1669310000
	BL/SL 3.5 VR SW	1669300000
Mounting screw		
	PTSC KA 22x4.5	1610740000

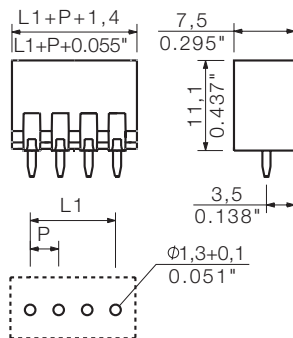
Ordering data

Solder pin length		3.2 mm		
Colour		orange		
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1604770000
3	7.00	0.276	100	1604780000
4	10.50	0.413	100	1604790000
5	14.00	0.551	50	1604800000
6	17.50	0.689	50	1604810000
7	21.00	0.827	50	1604820000
8	24.50	0.965	50	1604830000
9	28.00	1.102	50	1604840000
10	31.50	1.240	50	1604850000
11	35.00	1.378	50	1604860000
12	38.50	1.516	50	1604870000
13	42.00	1.654	50	1604880000
14	45.50	1.791	50	1604890000
15	49.00	1.929	50	1604900000
16	52.50	2.067	50	1604910000
17	56.00	2.205	20	1621400000
18	59.50	2.343	20	1621410000
19	63.00	2.480	20	1621420000
20	66.50	2.618	20	1621430000
21	70.00	2.756	20	1621440000
22	73.50	2.894	20	1621450000
23	77.00	3.031	20	1621460000
24	80.50	3.169	20	1621470000

SL 3.50/./180G



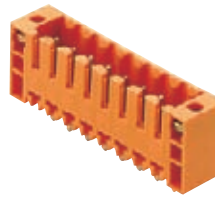
Dimensioned drawing



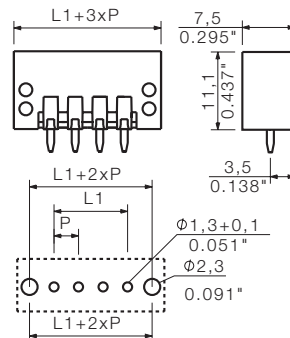
Ordering data

Solder pin length		3.2 mm
Colour		orange
Pitch	3.50 mm	
Pol.	L1	(inch)
2	3.50	0.138
3	7.00	0.276
4	10.50	0.413
5	14.00	0.551
6	17.50	0.689
7	21.00	0.827
8	24.50	0.965
9	28.00	1.102
10	31.50	1.240
11	35.00	1.378
12	38.50	1.516
13	42.00	1.654
14	45.50	1.791
15	49.00	1.929
16	52.50	2.067
17	56.00	2.205
18	59.50	2.343
19	63.00	2.480
20	66.50	2.618
21	70.00	2.756
22	73.50	2.894
23	77.00	3.031
24	80.50	3.169

SL 3.50/./180F



Dimensioned drawing

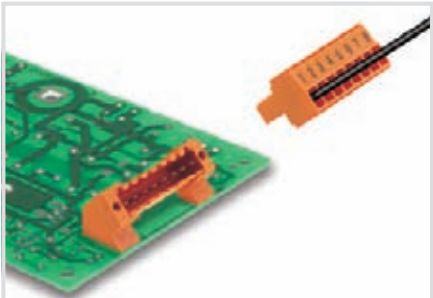


Ordering data

Solder pin length		3.2 mm
Colour		orange
Pitch	3.50 mm	
Pol.	L1	(inch)
2	3.50	0.138
3	7.00	0.276
4	10.50	0.413
5	14.00	0.551
6	17.50	0.689
7	21.00	0.827
8	24.50	0.965
9	28.00	1.102
10	31.50	1.240
11	35.00	1.378
12	38.50	1.516
13	42.00	1.654
14	45.50	1.791
15	49.00	1.929
16	52.50	2.067
17	56.00	2.205
18	59.50	2.343
19	63.00	2.480
20	66.50	2.618
21	70.00	2.756
22	73.50	2.894
23	77.00	3.031
24	80.50	3.169

Connectors in 3.50 mm pitch Series BL/SL 3.50

SL 3.50/..../135



Angled male header (135° orientation) for wave soldering in 3.5 mm pitch. The male header is available in closed (G) and flange (F) versions.

Product data

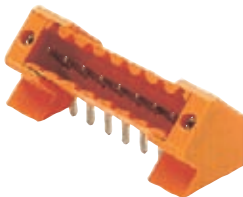
IEC: 320 V / 15 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

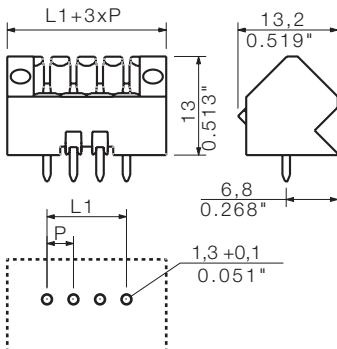
Note:

- 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.

SL 3.50/..../135F



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm ²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	15	13
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	160	160 320
Rated impulse voltage	kV	2.5	2.5 2.5
UL / CUL (Use Group)	B C D		
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG		
CSA (Use Group)	B C D		
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG		
General data			
Type of insulation material		PBT	
Flammability class UL 94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

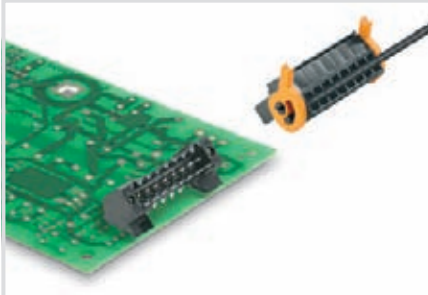
Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Interlock		
	BL/SL 3.5 VR OR	1669310000
	BL/SL 3.5 VR SW	1669300000

Ordering data

Solder pin length		3.2 mm		
Colour		orange		
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1643330000
3	7.00	0.276	100	1643340000
4	10.50	0.413	100	1643350000
5	14.00	0.551	50	1643360000
6	17.50	0.689	50	1643370000
7	21.00	0.827	50	1643380000
8	24.50	0.965	50	1643390000
9	28.00	1.102	50	1643400000
10	31.50	1.240	50	1643410000
11	35.00	1.378	50	1643420000
12	38.50	1.516	50	1643430000
13	42.00	1.654	50	1643440000
14	45.50	1.791	50	1643450000
15	49.00	1.929	50	1643460000
16	52.50	2.067	50	1643470000
17	56.00	2.205	20	1643480000
18	59.50	2.343	20	1643490000
19	63.00	2.480	20	1643500000
20	66.50	2.618	20	1643510000
21	70.00	2.756	20	1643520000
22	73.50	2.894	20	1643530000
23	77.00	3.031	20	1643540000
24	80.50	3.169	20	1643550000

SL-THR 3.50/././135



High-temperature-resistant, 135° angled, male header for all common soldering methods in 3.5 mm pitch. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded.

Product data

IEC: 320 V / 15 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

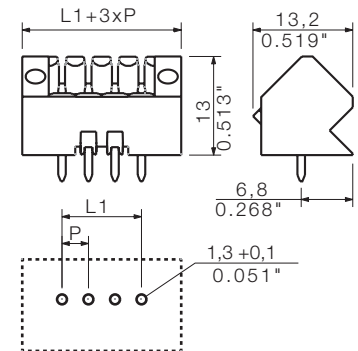
Note:

- 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.

SL-THR 3.50/././135F Box



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	15	13	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
CSA (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
Flammability class UL 94		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
 BL SL 3.5 KO OR	1693430000
 BL SL 3.5 KO SW	1610100000
Interlock	
 BL/SL 3.5 VR OR	1669310000
 BL/SL 3.5 VR SW	1669300000

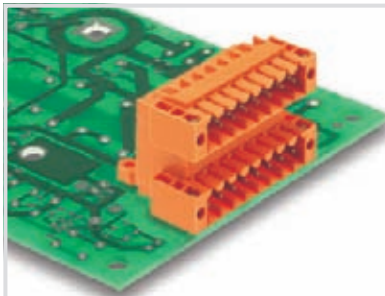
Ordering data

Solder pin length		3.2 mm		
Colour		black		
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1003510000
3	7.00	0.276	100	1003520000
4	10.50	0.413	100	1003530000
5	14.00	0.551	50	1003540000
6	17.50	0.689	50	1003550000
7	21.00	0.827	50	1003560000
8	24.50	0.965	50	1003570000
9	28.00	1.102	50	1003580000
10	31.50	1.240	50	1003590000
11	35.00	1.378	50	1003600000
12	38.50	1.516	50	1003620000
13	42.00	1.654	50	1003630000
14	45.50	1.791	50	1003640000
15	49.00	1.929	50	1003650000
16	52.50	2.067	50	1003660000
17	56.00	2.205	20	1003670000
18	59.50	2.343	20	1003680000
19	63.00	2.480	20	1003690000
20	66.50	2.618	20	1003700000
21	70.00	2.756	20	1003710000
22	73.50	2.894	20	1003720000
23	77.00	3.031	20	1003730000
24	80.50	3.169	20	1003740000

Connectors in 3.50 mm pitch

Series BL/SL 3.50

SLD 3.50/.. /90



Double-level, angled male header (90° orientation) for wave soldering in 3.5 mm pitch. The male header is available in open, closed (G) and flange (F) versions.

Product data

IEC: 200 V / 10.5 A
UL: 300 V / 8 A

For additional articles and information, refer to catalog.weidmueller.com

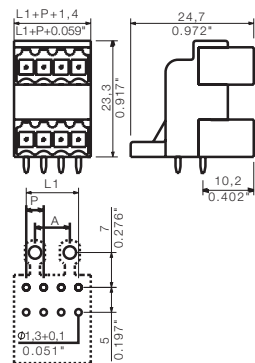
Note:

- 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.

SLD 3.50/.. /90G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	10.5	9
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	125	160 200
Rated impulse voltage	kV	2.5	2.5 2.5
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	8	8
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	8	8
AWG conductor	AWG		-
General data			
Type of insulation material		PBT	
Flammability class UL 94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000

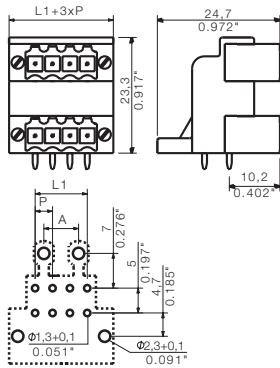
Ordering data

Solder pin length			3.2 mm	
Colour			orange	
Pitch		3.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	3.50	0.138	50	1633580000
6	7.00	0.276	50	1633590000
8	10.50	0.413	50	1633600000
10	14.00	0.551	50	1633610000
12	17.50	0.689	50	1633620000
14	21.00	0.827	20	1633630000
16	24.50	0.965	20	1633640000
18	28.00	1.102	20	1633650000
20	31.50	1.240	20	1633660000
22	35.00	1.378	10	1633670000
24	38.50	1.516	10	1633680000
26	42.00	1.654	10	1633690000
28	45.50	1.791	10	1633700000
30	49.00	1.929	10	1633710000
32	52.50	2.067	10	1633720000
34	56.00	2.205	10	1633730000
36	59.50	2.343	10	1633740000
38	63.00	2.480	10	1633750000
40	66.50	2.618	10	1633760000
42	70.00	2.756	10	1633770000
44	73.50	2.894	10	1633780000
46	77.00	3.031	10	1633790000
48	80.50	3.169	10	1633800000

SLD 3.50/././90F



Dimensioned drawing



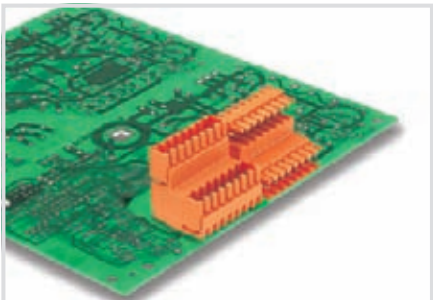
Ordering data

Solder pin length		3.2 mm		
Colour		orange		
Pitch		3.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	3.50	0.138	50	1633810000
6	7.00	0.276	50	1633820000
8	10.50	0.413	50	1633830000
10	14.00	0.551	50	1633840000
12	17.50	0.689	50	1633850000
14	21.00	0.827	20	1633860000
16	24.50	0.965	20	1633870000
18	28.00	1.102	20	1633880000
20	31.50	1.240	20	1633890000
22	35.00	1.378	10	1633900000
24	38.50	1.516	10	1633910000
26	42.00	1.654	10	1633920000
28	45.50	1.791	10	1633930000
30	49.00	1.929	10	1633940000
32	52.50	2.067	10	1633950000
34	56.00	2.205	10	1633960000
36	59.50	2.343	10	1633970000
38	63.00	2.480	10	1633980000
40	66.50	2.618	10	1633990000
42	70.00	2.756	10	1634000000
44	73.50	2.894	10	1634010000
46	77.00	3.031	10	1634020000
48	80.50	3.169	10	1634030000

Connectors in 3.50 mm pitch

Series BL/SL 3.50

SLD 3.50V.././90



Double-level, staggered male header with angled 90° wire outlet for wave soldering in 3.5 mm pitch. The male header is available in open, closed (G) and flange (F) versions.

Product data

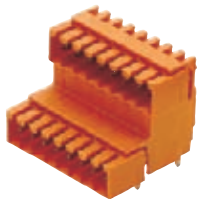
IEC: 200 V / 10.5 A
UL: 300 V / 8 A

For additional articles and information, refer to catalog.weidmueller.com

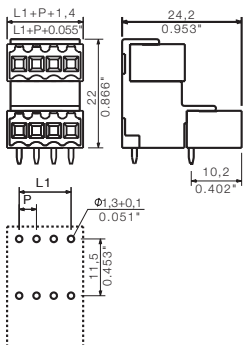
Note:

- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- Spacing between rows: see hole layout
- 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.

SLD 3.50V.././90G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	10.5	9	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	125	160	200
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	8		8
AWG conductor	AWG		-	
CSA (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	8		8
AWG conductor	AWG		-	
General data				
Type of insulation material			PBT	
Flammability class UL 94			V-0	
Contact base material			CuSn	
Material of contact surface			tinned	
Pin dimensions = d	mm		1.2, Octagonal	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0,1	

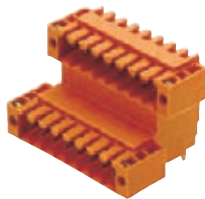
Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000

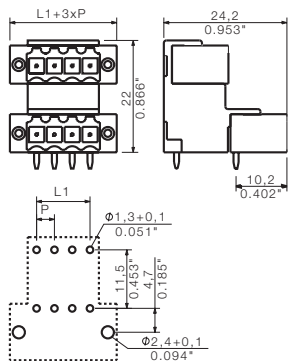
Ordering data

Solder pin length			3.2 mm		
Colour			orange		
Pitch		3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	
4	3.50	0.138	50	1642240000	
6	7.00	0.276	50	1890600000	
8	10.50	0.413	50	1642250000	
10	14.00	0.551	50	1866770000	
12	17.50	0.689	50	1642260000	
14	21.00	0.827	20	1890610000	
16	24.50	0.965	20	1642270000	
18	28.00	1.102	20	1890620000	
20	31.50	1.240	20	1642280000	
22	35.00	1.378	10	1669650000	
24	38.50	1.516	10	1642290000	
26	42.00	1.654	10	1890630000	
28	45.50	1.791	10	1642300000	
30	49.00	1.929	10	1890640000	
32	52.50	2.067	10	1642310000	
34	56.00	2.205	10	1890650000	
36	59.50	2.343	10	1642320000	
38	63.00	2.480	10	1890660000	
40	66.50	2.618	10	1642330000	
42	70.00	2.756	10	1890670000	
44	73.50	2.894	10	1642340000	
46	77.00	3.031	10	1890680000	
48	80.50	3.169	10	1642350000	

SLD 3.50V.././90F



Dimensioned drawing



Ordering data

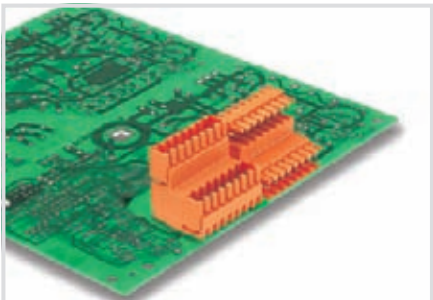
Solder pin length		3.2 mm		
Colour		orange		
Pitch		3.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	3.50	0.138	50	1642370000
6	7.00	0.276	50	1890790000
8	10.50	0.413	50	1642380000
10	14.00	0.551	50	1890800000
12	17.50	0.689	50	1642390000
14	21.00	0.827	20	1890810000
16	24.50	0.965	20	1642400000
18	28.00	1.102	20	1890820000
20	31.50	1.240	20	1642410000
22	35.00	1.378	10	1669660000
24	38.50	1.516	10	1642420000
26	42.00	1.654	10	1890830000
28	45.50	1.791	10	1642430000
30	49.00	1.929	10	1890840000
32	52.50	2.067	10	1642440000
34	56.00	2.205	10	1890850000
36	59.50	2.343	10	1642450000
38	63.00	2.480	10	1890860000
40	66.50	2.618	10	1642460000
42	70.00	2.756	10	1890870000
44	73.50	2.894	10	1642470000
46	77.00	3.031	10	1890880000
48	80.50	3.169	10	1642480000

C

Connectors in 3.50 mm pitch

Series BL/SL 3.50

SLD 3.50V.././180



Double-level, staggered male header with straight 180° wire outlet for wave soldering in 3.5 mm pitch. The male header is available in closed (G) and flange (F) versions.

Product data

IEC: 200 V / 10.5 A
UL: 300 V / 8 A

For additional articles and information, refer to catalog.weidmuller.com

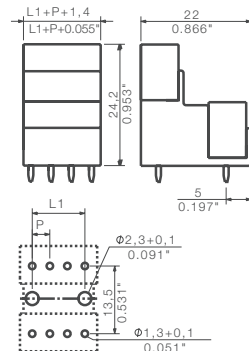
Note:

- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- Spacing between rows: see hole layout
- 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.

SLD 3.50V.././180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	10.5	9	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	125	160	200
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	8		8
AWG conductor	AWG		-	
CSA (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	8		8
AWG conductor	AWG		-	
General data				
Type of insulation material			PBT	
Flammability class UL 94			V-0	
Contact base material			CuSn	
Material of contact surface			tinned	
Pin dimensions = d	mm	1,2	Octagonal	
Solder eyelet Ø = D	mm	1,3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

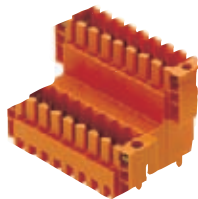
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BL SL 3.5 KO OR	1693430000
BL SL 3.5 KO SW	1610100000

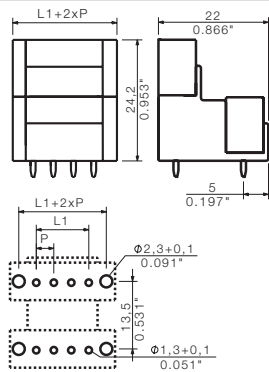
Ordering data

Solder pin length				3.2 mm
Colour				orange
Pitch		3.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	3.50	0.138	50	1641110000
6	7.00	0.276	50	1891190000
8	10.50	0.413	50	1641120000
10	14.00	0.551	50	1891200000
12	17.50	0.689	50	1641130000
16	24.50	0.965	20	1641140000
20	31.50	1.240	20	1641150000
24	38.50	1.516	10	1641160000
28	45.50	1.791	10	1641170000
32	52.50	2.067	10	1641180000
34	56.00	2.205	10	1891260000
36	59.50	2.343	10	1641190000
38	63.00	2.480	10	1891270000
40	66.50	2.618	10	1641200000
42	70.00	2.756	10	1891280000
44	73.50	2.894	10	1641210000
46	77.00	3.031	10	1891290000
48	80.50	3.169	10	1641220000

SLD 3.50V.././180F



Dimensioned drawing



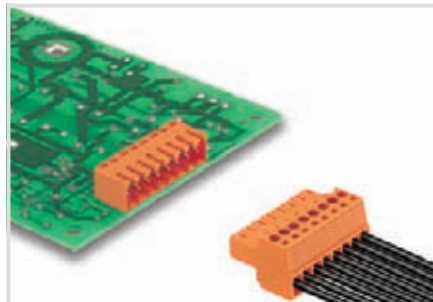
Ordering data

Solder pin length		3.2 mm		
Colour		orange		
Pitch		3.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	3.50	0.138	50	1641240000
6	7.00	0.276	50	1891060000
8	10.50	0.413	50	1641250000
10	14.00	0.551	50	1891070000
12	17.50	0.689	50	1641260000
14	21.00	0.827	20	1891080000
16	24.50	0.965	20	1641270000
18	28.00	1.102	20	1891090000
20	31.50	1.240	20	1641280000
22	35.00	1.378	20	1891100000
24	38.50	1.516	10	1641290000
26	42.00	1.654	10	1891110000
28	45.50	1.791	10	1641300000
30	49.00	1.929	10	1891120000
32	52.50	2.067	10	1641310000
34	56.00	2.205	10	1891130000
36	59.50	2.343	10	1641320000
38	63.00	2.480	10	1891140000
40	66.50	2.618	10	1641330000
42	70.00	2.756	10	1891150000
44	73.50	2.894	10	1641340000
46	77.00	3.031	10	1891160000
48	80.50	3.169	10	1641350000

C

Connectors in 3.50 mm pitch Series BL/SL 3.50

BL 3.50/..../180



Female plug with clamping-yoke screw system for connecting wires with straight outlet direction in 3.5 mm pitch. Available with a screw flange (F), release lever (LH) or lock and release lever (LR). They include space for labelling and can be coded.

Product data

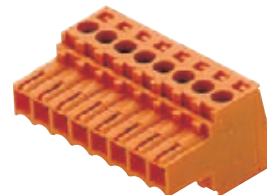
IEC: 320 V / 17 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 14

For additional articles and information, refer to catalog.weidmueller.com

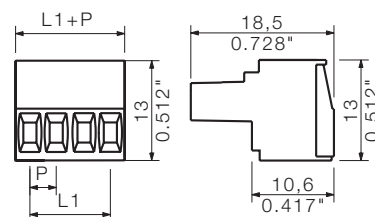
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Max. O.D. of conductor: 2.9 mm
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- 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.

BL 3.50/..../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.08...1.5
Solid core H05(07) V-U	mm²	0.2...1.5
Stranded H07 V-R		
Flexible H05(07) V-K	mm ²	0.2...1.5
Flexible with ferrule	mm ²	0.2...1.5
Ferrule with plastic collar	mm ²	0.2...1.5
Stripping length	mm	6
Screwdriver blade	mm	0.4 x 2.5
According to norm		DIN 5264
Tightening torque range	Nm	0.2...0.25
Rated current, max.	A	17 14.5
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	1.5
Overvoltage category	III	III II
Pollution severity	3	2 2
Rated voltage	V	160 160 320
Rated impulse voltage	kV	2.5 2.5 2.5

UL / CUL (Use Group)

Rated voltage	V	300 300
Rated current	A	10 10
AWG conductor	AWG	28-14
CSA (Use Group)	B C D	
Rated voltage	V	300 300
Rated current	A	10 10
AWG conductor	AWG	28-14

General data

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

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BL SL 3.5 KO OR	1693430000
BL SL 3.5 KO SW	1610100000

Hood	Order No.
BL 3.5 AH 10 SW	1745650000
BL 3.5 AH 11 SW	1745660000
BL 3.5 AH 12 SW	1745670000
BL 3.5 AH 13 SW	1745680000
BL 3.5 AH 14 SW	1745690000
BL 3.5 AH 15 SW	1745700000
BL 3.5 AH 16 SW	1745710000
BL 3.5 AH 3 SW	1745580000
BL 3.5 AH 4 SW	1745590000
BL 3.5 AH 5 SW	1745600000
BL 3.5 AH 6 SW	1745610000
BL 3.5 AH 7 SW	1745620000
BL 3.5 AH 8 SW	1745630000
BL 3.5 AH 9 SW	1745640000

Strain relief	Order No.
BL 3.5 ZE 3 OR	1629680000
BL 3.5 ZE 3 SW	1627820000
BL 3.5 ZE 8 OR	1629690000
BL 3.5 ZE 8 SW	1627830000

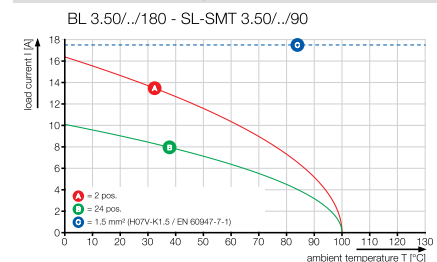
Interlock	Order No.
BL/SL 3.5 VR OR	1669310000
BL/SL 3.5 VR SW	1669300000

Screwdriver	Order No.
SD 0,4x2,5x75	9009030000
SDI 0,4x2,5x75	9008370000

Ordering data

Solder pin length					
Colour		orange		black	
Pitch		3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1597360000	1615670000
3	7.00	0.276	100	1597370000	1615680000
4	10.50	0.413	100	1597380000	1615690000
5	14.00	0.551	50	1597390000	1614090000
6	17.50	0.689	50	1597400000	1610180000
7	21.00	0.827	50	1597410000	1610190000
8	24.50	0.965	50	1597420000	1615700000
9	28.00	1.102	50	1597430000	1615710000
10	31.50	1.240	50	1597440000	1610200000
11	35.00	1.378	50	1597450000	1615720000
12	38.50	1.516	50	1597460000	1615730000
13	42.00	1.654	50	1597470000	1615740000
14	45.50	1.791	50	1597480000	1615750000
15	49.00	1.929	50	1597490000	1615760000
16	52.50	2.067	50	1597500000	1615770000
17	56.00	2.205	20	1620290000	1620370000
18	59.50	2.343	20	1620300000	1620380000
19	63.00	2.480	20	1620310000	1620390000
20	66.50	2.618	20	1620320000	1620400000
21	70.00	2.756	20	1620330000	1620410000
22	73.50	2.894	20	1620340000	1620420000
23	77.00	3.031	20	1620350000	1620430000
24	80.50	3.169	20	1620360000	1620440000

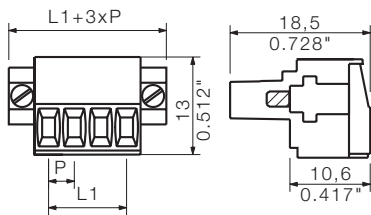
Representative derating curve



BL 3.50/./180F



Dimensioned drawing



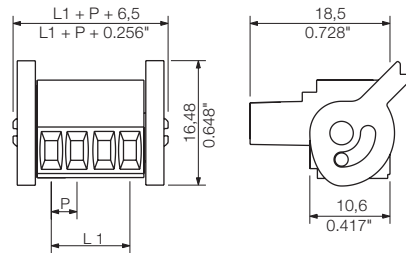
Ordering data

Solder pin length					
Colour		orange		black	
Pitch		3.50 mm			
Pol.	L1 (inch)	Qty.	Order No.	Order No.	
2	3.50	0.138	100	1606640000	1615780000
3	7.00	0.276	100	1606650000	1615790000
4	10.50	0.413	100	1606660000	1615800000
5	14.00	0.551	50	1606670000	1615810000
6	17.50	0.689	50	1606680000	1615820000
7	21.00	0.827	50	1606690000	1615830000
8	24.50	0.965	50	1606700000	1615840000
9	28.00	1.102	50	1606710000	1615850000
10	31.50	1.240	50	1606720000	1615860000
11	35.00	1.378	50	1606730000	1615870000
12	38.50	1.516	50	1606740000	1615880000
13	42.00	1.654	50	1606750000	1615890000
14	45.50	1.791	50	1606760000	1615900000
15	49.00	1.929	50	1606770000	1615910000
16	52.50	2.067	50	1606780000	1615920000
17	56.00	2.205	20	1620760000	1620840000
18	59.50	2.343	20	1620770000	1620850000
19	63.00	2.480	20	1620780000	1620860000
20	66.50	2.618	20	1620790000	1620870000
21	70.00	2.756	20	1620800000	1620880000
22	73.50	2.894	20	1620810000	1620890000
23	77.00	3.031	20	1620820000	1620900000
24	80.50	3.169	20	1620830000	1620910000

BL 3.50/./180LH



Dimensioned drawing



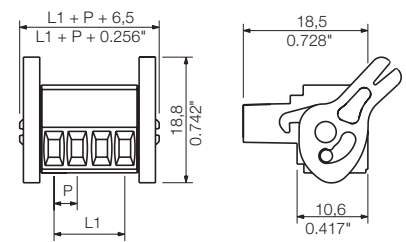
Ordering data

Solder pin length					
Colour		orange		black	
Pitch		3.50 mm			
Pol.	L1 (inch)	Qty.	Order No.	Order No.	
2	3.50	0.138	100	1687650000	1687880000
3	7.00	0.276	100	1687660000	1687890000
4	10.50	0.413	100	1687670000	1687900000
5	14.00	0.551	50	1687680000	1687910000
6	17.50	0.689	50	1687690000	1687920000
7	21.00	0.827	50	1687700000	1687930000
8	24.50	0.965	50	1687710000	1687940000
9	28.00	1.102	50	1687720000	1687950000
10	31.50	1.240	50	1687730000	1687960000
11	35.00	1.378	50	1687740000	1687970000
12	38.50	1.516	50	1687750000	1687980000
13	42.00	1.654	50	1687760000	1687990000
14	45.50	1.791	50	1687770000	1688000000
15	49.00	1.929	50	1687780000	1688010000
16	52.50	2.067	50	1687790000	1688020000
17	56.00	2.205	20	1687800000	1688030000
18	59.50	2.343	20	1687810000	1688040000
19	63.00	2.480	20	1687820000	1688050000
20	66.50	2.618	20	1687830000	1688060000
21	70.00	2.756	20	1687840000	1688070000
22	73.50	2.894	20	1687850000	1688080000
23	77.00	3.031	20	1687860000	1688090000
24	80.50	3.169	20	1687870000	1688100000

BL 3.50/./180LR



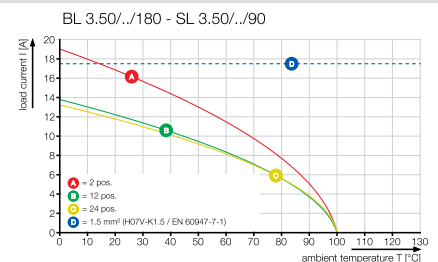
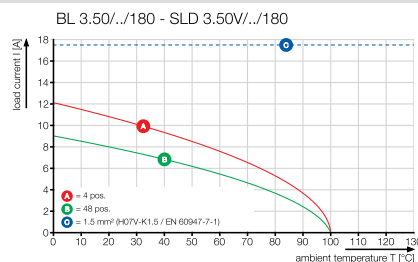
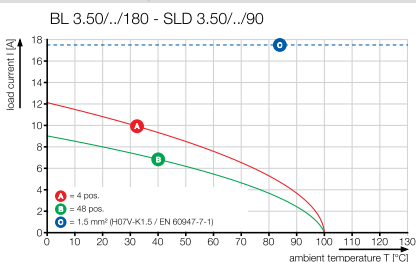
Dimensioned drawing



Ordering data

Solder pin length					
Colour		orange			
Pitch	3.50 mm				
Pol.	L1 (inch)	Qty.	Order No.	Order No.	
3	7.00	0.276	100	1134310000	
4	10.50	0.413	100	1134320000	
5	14.00	0.551	50	1134330000	
6	17.50	0.689	50	1134340000	
7	21.00	0.827	50	1134350000	
8	24.50	0.965	50	1134360000	
9	28.00	1.102	50	1134370000	
10	31.50	1.240	50	1134380000	
11	35.00	1.378	50	1134390000	
12	38.50	1.516	50	1134400000	
13	42.00	1.654	50	1134410000	
14	45.50	1.791	50	1134420000	
15	49.00	1.929	50	1134430000	
16	52.50	2.067	50	1134440000	

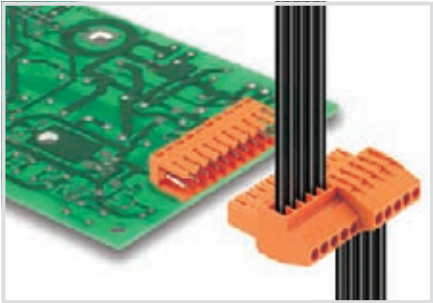
Additional derating curves



Connectors in 3.50 mm pitch

Series BL/SL 3.50

BL 3.50/././90 & 270



Female plug with clamping-yoke screw system for connecting wires with 90° and 270° angled orientation in 3.5 mm pitch. The female plugs are also available with a flange (F). They include space for labelling and can be coded.

Product data

IEC: 320 V / 12 A / 0.2 - 1.5 mm²
UL: 300 V / 8 A / AWG 28 - 14

For additional articles and information, refer to catalog.weidmueller.com

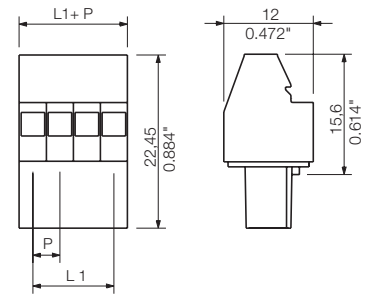
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Max. O.D. of conductor: 2.9 mm
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- 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.

BL 3.50/././90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.08...1.5	
Solid core H05(07) V-U	mm²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.2...1.5	
Ferrule with plastic collar	mm ²	0.2...1.5	
Stripping length	mm	6	
Screwdriver blade	mm	0.4 x 2.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.2...0.25	
Rated current, max.	A	12	10
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1.5	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	160	160 320
Rated impulse voltage	kV	2.5	2.5 2.5
UL / CUL (Use Group)	B C D	B C D	
Rated voltage	V	300	300
Rated current	A	8	8
AWG conductor	AWG	28-14	
CSA (Use Group)	B C D	B C D	
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	28-14	
General data			
Type of insulation material		PBT	
Flammability class UL 94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

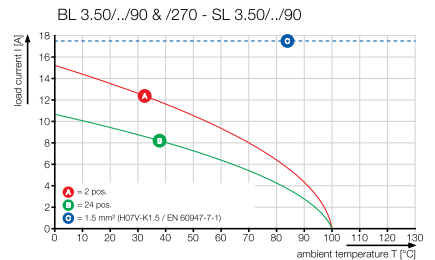
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BL SL 3.5 KO OR	1693430000
BL SL 3.5 KO SW	1610100000
Screwdriver	
SD 0,4x2,5x75	9009030000
SDI 0,4x2,5x75	9008370000

Ordering data

Solder pin length		Colour	
		orange	black
Pitch	3.50 mm		
Pol.	L1 (inch)	Qty.	Order No. Order No.
2	3.50	0.138	100 1638550000 1638780000
3	7.00	0.276	100 1638560000 1638790000
4	10.50	0.413	100 1638570000 1638800000
5	14.00	0.551	50 1638580000 1638810000
6	17.50	0.689	50 1638590000 1638820000
7	21.00	0.827	50 1638600000 1638830000
8	24.50	0.965	50 1638610000 1638840000
9	28.00	1.102	50 1638620000 1638850000
10	31.50	1.240	50 1638630000 1638860000
11	35.00	1.378	50 1638640000 1638870000
12	38.50	1.516	50 1638650000 1638880000
13	42.00	1.654	50 1638660000 1638890000
14	45.50	1.791	50 1638670000 1638900000
15	49.00	1.929	50 1638680000 1638910000
16	52.50	2.067	50 1638690000 1638920000
17	56.00	2.205	20 1638700000 1638930000
18	59.50	2.343	20 1638710000 1638940000
19	63.00	2.480	20 1638720000 1638950000
20	66.50	2.618	20 1638730000 1638960000
21	70.00	2.756	20 1638740000 1638970000
22	73.50	2.894	20 1638750000 1638980000
23	77.00	3.031	20 1638760000 1638990000
24	80.50	3.169	20 1638770000 1639000000

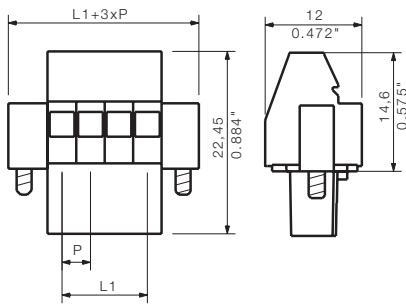
Representative derating curve



BL 3.50/.. /90F



Dimensioned drawing



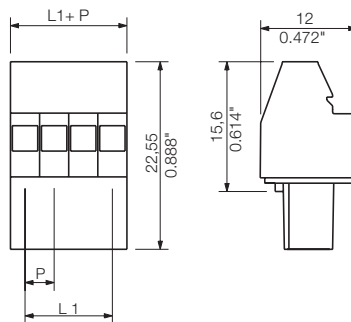
Ordering data

Solder pin length					
Colour		orange		black	
Pitch		3.50 mm			
Pol.	L1 (inch)	Qty.	Order No.	Order No.	
2	3.50	0.138	100	1639010000	1639240000
3	7.00	0.276	100	1639020000	1639250000
4	10.50	0.413	100	1639030000	1639260000
5	14.00	0.551	50	1639040000	1639270000
6	17.50	0.689	50	1639050000	1639280000
7	21.00	0.827	50	1639060000	1639290000
8	24.50	0.965	50	1639070000	1639300000
9	28.00	1.102	50	1639080000	1639310000
10	31.50	1.240	50	1639090000	1639320000
11	35.00	1.378	50	1639100000	1639330000
12	38.50	1.516	50	1639110000	1639340000
13	42.00	1.654	50	1639120000	1639350000
14	45.50	1.791	50	1639130000	1639360000
15	49.00	1.929	50	1639140000	1639370000
16	52.50	2.067	50	1639150000	1639380000
17	56.00	2.205	20	1639160000	1639390000
18	59.50	2.343	20	1639170000	1639400000
19	63.00	2.480	20	1639180000	1639410000
20	66.50	2.618	20	1639190000	1639420000
21	70.00	2.756	20	1639200000	1639430000
22	73.50	2.894	20	1639210000	1639440000
23	77.00	3.031	20	1639220000	1639450000
24	80.50	3.169	20	1639230000	1639460000

BL 3.50/.. /270



Dimensioned drawing



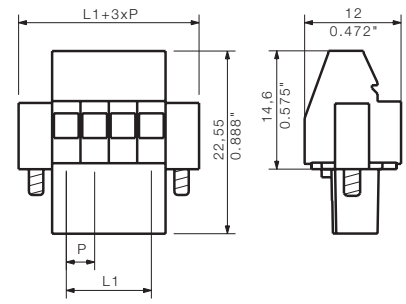
Ordering data

Solder pin length					
Colour			orange	black	
Pitch		3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1639470000	1639700000
3	7.00	0.276	100	1639480000	1639710000
4	10.50	0.413	100	1639490000	1639720000
5	14.00	0.551	50	1639500000	1639730000
6	17.50	0.689	50	1639510000	1639740000
7	21.00	0.827	50	1639520000	1639750000
8	24.50	0.965	50	1639530000	1639760000
9	28.00	1.102	50	1639540000	1639770000
10	31.50	1.240	50	1639550000	1639780000
11	35.00	1.378	50	1639560000	1639790000
12	38.50	1.516	50	1639570000	1639800000
13	42.00	1.654	50	1639580000	1639810000
14	45.50	1.791	50	1639590000	1639820000
15	49.00	1.929	50	1639600000	1639830000
16	52.50	2.067	50	1639610000	1639840000
17	56.00	2.205	20	1639620000	1639850000
18	59.50	2.343	20	1639630000	1639860000
19	63.00	2.480	20	1639640000	1639870000
20	66.50	2.618	20	1639650000	1639880000
21	70.00	2.756	20	1639660000	1639890000
22	73.50	2.894	20	1639670000	1639900000
23	77.00	3.031	20	1639680000	1639910000
24	80.50	3.169	20	1639690000	1639920000

BL 3.50/.. /270F



Dimensioned drawing



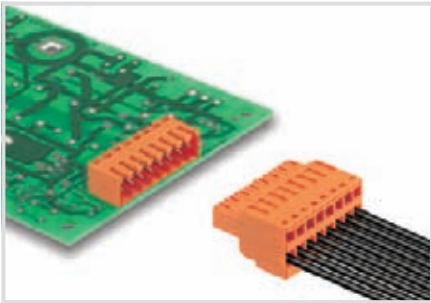
Ordering data

Solder pin length					
Colour		orange		black	
Pitch		3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1639930000	1640160000
3	7.00	0.276	100	1639940000	1640170000
4	10.50	0.413	100	1639950000	1640180000
5	14.00	0.551	50	1639960000	1640190000
6	17.50	0.689	50	1639970000	1640200000
7	21.00	0.827	50	1639980000	1640210000
8	24.50	0.965	50	1639990000	1640220000
9	28.00	1.102	50	1640000000	1640230000
10	31.50	1.240	50	1640010000	1640240000
11	35.00	1.378	50	1640020000	1640250000
12	38.50	1.516	50	1640030000	1640260000
13	42.00	1.654	50	1640040000	1640270000
14	45.50	1.791	50	1640050000	1640280000
15	49.00	1.929	50	1640060000	1640290000
16	52.50	2.067	50	1640070000	1640300000
17	56.00	2.205	20	1640080000	1640310000
18	59.50	2.343	20	1640090000	1640320000
19	63.00	2.480	20	1640100000	1640330000
20	66.50	2.618	20	1640110000	1640340000
21	70.00	2.756	20	1640120000	1640350000
22	73.50	2.894	20	1640130000	1640360000
23	77.00	3.031	20	1640140000	1640370000
24	80.50	3.169	20	1640150000	1640380000

Connectors in 3.50 mm pitch

Series BL/SL 3.50

BLZF 3.50/././180



Female plug with tension-clamp wire connection in 3.5 mm pitch. Available with a screw flange (F), release lever (LH) or lock and release lever (LR). They include space for labelling and can be coded.

Product data

IEC: 320 V / 14.5 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A / AWG 26 - 14

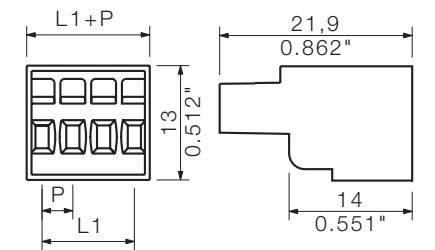
For additional articles and information, refer to catalog.weidmueller.com

- Note:**
- Additional colours on request
 - Gold-plated contact surfaces on request
 - Rated current related to rated cross-section and min. No. of poles.
 - Max. O.D. of conductor: 2.9 mm
 - Wire end ferrule without plastic collar to DIN 46228/1
 - Wire end ferrule with plastic collar to DIN 46228/4
 - We recommend crimp shape A for wire-end ferrules with crimping tools PZ 1.5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for the larger wire cross-sections.
 - 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.

BLZF 3.50/././180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...1.5	
Solid core H05(07) V-U	mm²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.2...1.5	
Ferrule with plastic collar	mm ²	0.2...1	
Stripping length	mm	10	
Screwdriver blade	mm	0.4 x 2.5	
According to norm		DIN 5264-A	
Tightening torque range	Nm		
Rated current, max.	A	14.5	12
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1.5	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	160	160 320
Rated impulse voltage	kV	2.5	2.5 2.5
UL / CUL (Use Group)		B C D	D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	26-14	
CSA (Use Group)		B C D	
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	26-14	
General data			
Type of insulation material		PBT	
Flammability class UL 94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

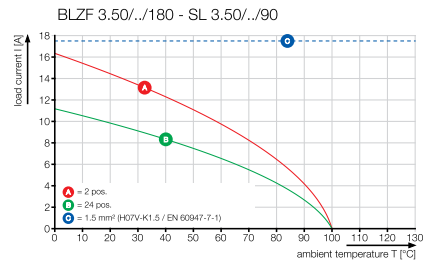
Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Strain relief		
	BL 3.5 ZE 3 OR	1629680000
	BL 3.5 ZE 3 SW	1627820000
	BL 3.5 ZE 8 OR	1629690000
	BL 3.5 ZE 8 SW	1627830000
Screwdriver		
	SD 0,4x2,5x75	9009030000
Crimping tool		
	PZ 1.5	9005990000
	PZ 6/5	9011460000

Ordering data

Solder pin length					
Colour		orange	black		
Pitch	3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1690190000	1690420000
3	7.00	0.276	100	1690200000	1690430000
4	10.50	0.413	100	1690210000	1690440000
5	14.00	0.551	50	1690220000	1690450000
6	17.50	0.689	50	1690230000	1690460000
7	21.00	0.827	50	1690240000	1690470000
8	24.50	0.965	50	1690250000	1690480000
9	28.00	1.102	50	1690260000	1690490000
10	31.50	1.240	50	1690270000	1690500000
11	35.00	1.378	50	1690280000	1690510000
12	38.50	1.516	50	1690290000	1690520000
13	42.00	1.654	50	1690300000	1690530000
14	45.50	1.791	50	1690310000	1690540000
15	49.00	1.929	50	1690320000	1690550000
16	52.50	2.067	50	1690330000	1690560000
17	56.00	2.205	20	1690340000	1690570000
18	59.50	2.343	20	1690350000	1690580000
19	63.00	2.480	20	1690360000	1690590000
20	66.50	2.618	20	1690370000	1690600000
21	70.00	2.756	20	1690380000	1690610000
22	73.50	2.894	20	1690390000	1690620000
23	77.00	3.031	20	1690400000	1690630000
24	80.50	3.169	20	1690410000	1690640000

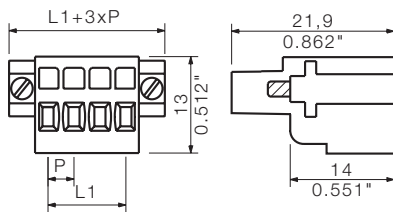
Representative derating curve



BLZF 3.50/./180F



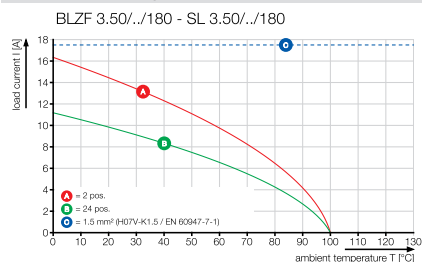
Dimensioned drawing



Ordering data

Solder pin length					
Colour		orange		black	
Pitch		3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1690880000	1691110000
3	7.00	0.276	100	1690890000	1691120000
4	10.50	0.413	100	1690900000	1691130000
5	14.00	0.551	50	1690910000	1691140000
6	17.50	0.689	50	1690920000	1691150000
7	21.00	0.827	50	1690930000	1691160000
8	24.50	0.965	50	1690940000	1691170000
9	28.00	1.102	50	1690950000	1691180000
10	31.50	1.240	50	1690960000	1691190000
11	35.00	1.378	50	1690970000	1691200000
12	38.50	1.516	50	1690980000	1691210000
13	42.00	1.654	50	1690990000	1691220000
14	45.50	1.791	50	1691000000	1691230000
15	49.00	1.929	50	1691010000	1691240000
16	52.50	2.067	50	1691020000	1691250000
17	56.00	2.205	20	1691030000	1691260000
18	59.50	2.343	20	1691040000	1691270000
19	63.00	2.480	20	1691050000	1691280000
20	66.50	2.618	20	1691060000	1691290000
21	70.00	2.756	20	1691070000	1691300000
22	73.50	2.894	20	1691080000	1691310000
23	77.00	3.031	20	1691090000	1691320000
24	80.50	3.169	20	1691100000	1691330000

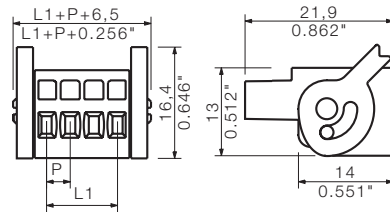
Additional derating curves



BLZF 3.50/./180LH



Dimensioned drawing



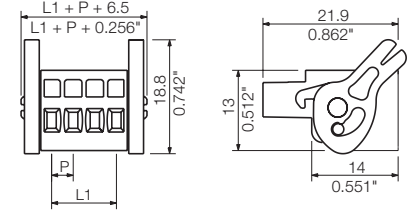
Ordering data

Solder pin length					
Colour		orange		black	
Pitch		3.50 mm			
Pol.	L1 (inch)	Qty.	Order No.	Order No.	
2	3.50	0.138	100	1691570000	1691800000
3	7.00	0.276	100	1691580000	1691810000
4	10.50	0.413	100	1691590000	1691820000
5	14.00	0.551	50	1691600000	1691830000
6	17.50	0.689	50	1691610000	1691840000
7	21.00	0.827	50	1691620000	1691850000
8	24.50	0.965	50	1691630000	1691860000
9	28.00	1.102	50	1691640000	1691870000
10	31.50	1.240	50	1691650000	1691880000
11	35.00	1.378	50	1691660000	1691890000
12	38.50	1.516	50	1691670000	1691900000
13	42.00	1.654	50	1691680000	1691910000
14	45.50	1.791	50	1691690000	1691920000
15	49.00	1.929	50	1691700000	1691930000
16	52.50	2.067	50	1691710000	1691940000
17	56.00	2.205	20	1691720000	1691950000
18	59.50	2.343	20	1691730000	1691960000
19	63.00	2.480	20	1691740000	1691970000
20	66.50	2.618	20	1691750000	1691980000
21	70.00	2.756	20	1691760000	1691990000
22	73.50	2.894	20	1691770000	1692000000
23	77.00	3.031	20	1691780000	1692010000
24	80.50	3.169	20	1691790000	1692020000

BLZF 3.50/./180LR



Dimensioned drawing



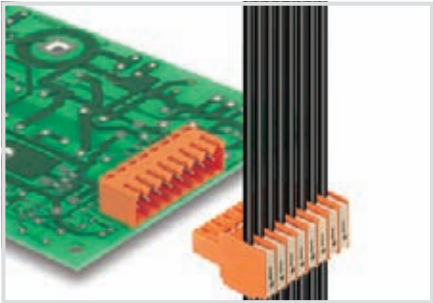
Ordering data

Solder pin length					
Colour		orange			
Pitch	3.50 mm				
Pol.	L1 (inch)	Qty.	Order No.	Order No.	
3	7.00	0.276	100	1134450000	
4	10.50	0.413	100	1134460000	
5	14.00	0.551	50	1134470000	
6	17.50	0.689	50	1134480000	
7	21.00	0.827	50	1134490000	
8	24.50	0.965	50	1134510000	
9	28.00	1.102	50	1134520000	
10	31.50	1.240	50	1134530000	
11	35.00	1.378	50	1134540000	
12	38.50	1.516	50	1134550000	
13	42.00	1.654	50	1134560000	
14	45.50	1.791	50	1134570000	
15	49.00	1.929	50	1134580000	
16	52.50	2.067	50	1134590000	

Connectors in 3.50 mm pitch

Series BL/SL 3.50

BLIDCB 3.50/./180



Female plug provides quick IDC wire connections in 3.5 mm pitch for bus applications. The female plugs are also available with a flange (F). They include space for labelling and can be coded.

Product data

IEC: 250 V / 6 A / 0.35 - 0.5 mm²
UL: 300 V / 7 A / AWG 22 - 20

For additional articles and information, refer to catalog.weidmueller.com

Note:

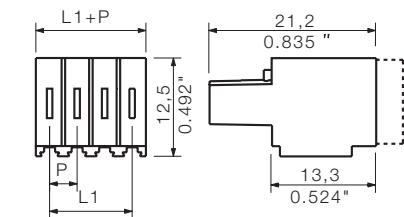
- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- for IDC contact 0.5: conductor to DIN EN 60352 pt 4
- AWG conductor: solid, 7 or 19 strands only
- Temperature range -20 to +80°C
- BLIDCB 3.5 and BLIDCB 3.5 conductors „solid“/“flexible“ to DIN 47726
- 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.

BLIDCB 3.50/./180

Bus version



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.32...0.5	
Solid core H05(07) V-U	mm ²	0.35...0.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.35...0.5	
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm	0.4 x 2.5	
According to norm		DIN 5264-A	
Tightening torque range	Nm		
Rated current, max.	A	6	6
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	0.5	
Overvoltage category		III	III
Pollution severity		3	2
Rated voltage	V	160	160
Rated impulse voltage	kV	2.5	2.5
UL / CUL (Use Group)	B	C	D
Rated voltage	V	300	300
Rated current	A	7	7
AWG conductor	AWG	22-20	
CSA (Use Group)	B	C	D
Rated voltage	V	300	300
Rated current	A	7	7
AWG conductor	AWG	22-20	
General data			
Type of insulation material		PBT	
Flammability class UL 94		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

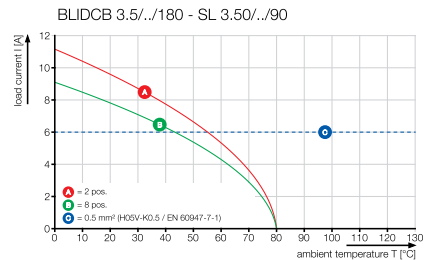
Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Mounting block		
	BLIDCB 3.5 ASB	1770310000
Screwdriver		
	SD 0,4x2,5x75	9009030000
	SDI 0,4x2,5x75	9008370000

Ordering data

Solder pin length						
Colour		orange	black			
Pitch	3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
2	3.50	0.138	10	1751380000	1770670000	
3	7.00	0.276	10	1751390000	1770680000	
4	10.50	0.413	10	1751400000	1770690000	
5	14.00	0.551	10	1751410000	1770700000	
6	17.50	0.689	10	1751420000	1770710000	
7	21.00	0.827	10	1751430000	1770720000	
8	24.50	0.965	10	1751440000	1770730000	

Representative derating curve

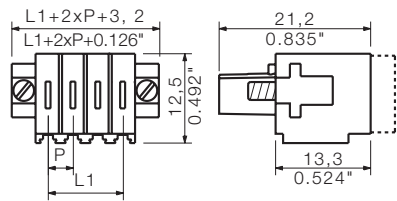


BLIDCB 3.50/.. /180F

Bus version



Dimensioned drawing



Ordering data

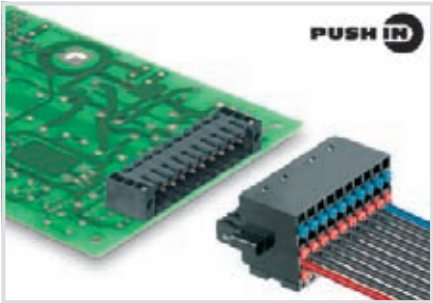
Solder pin length						
Colour			orange		black	
Pitch 3.50 mm						
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
2	3.50	0.138	10	1751450000	1770740000	
3	7.00	0.276	10	1751460000	1770750000	
4	10.50	0.413	10	1751470000	1770760000	
5	14.00	0.551	10	1751480000	1770770000	
6	17.50	0.689	10	1751490000	1770780000	
7	21.00	0.827	10	1751500000	1770790000	
8	24.50	0.965	10	1751510000	1770800000	



Connectors in 3.50 mm pitch

Series BL/SL 3.50

BL-I/O 3.5/./180



Female plug provides pluggable connection level for decentralized I/O electronics. It is used together with male headers in 3.5 mm pitch. Available with a screw flange (F) or a lock and release lever (LR).

Product data

IEC: 200 V / 2.2 A / 0.2 - 1.5 mm²
UL: 50 V / 5 A / AWG 22 - 16

For additional articles and information, refer to catalog.weidmuller.com

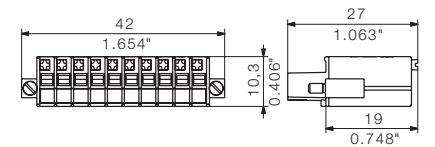
Note:

- Additional colours on request
- UL approval values for „factory wiring“
- We recommend crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for the larger wire cross-sections.
- Total load-carrying capacity of the potential bridges when feeding with 1.5 mm² is max. 17.5 A (so the capacity is 2.18 A for poles 2 through 9).
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Conductor < 0.2 mm² tinned
- Max. O.D. of conductor: 2.9 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BL-I/O 3.50/10/180F



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm²	0.2...1.5	
Solid core H05(07) V-U	mm²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm²	0.2...1.5	
Flexible with ferrule	mm²	0.2...1.5	
Ferrule with plastic collar	mm²	0.2...1.5	
Stripping length	mm	8	
Screwdriver blade	mm	0.4 x 2.5	
According to norm		DIN 5264	
Tightening torque range	Nm		
Rated current, max.	A	2.2	2.2
At ambient temperature		20°C	40°C
For conductor cross-section	mm²	1.5	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	50	160 200
Rated impulse voltage	kV	0.8	2.5 2.5
UL / CUL (Use Group)		B	C D
Rated voltage	V	50	50
Rated current	A	5	5
AWG conductor	AWG	22-16	
CSA (Use Group)		B	C D
Rated voltage	V	50	50
Rated current	A	5	5
AWG conductor	AWG	22-16	
General data			
Type of insulation material		PBT	
Flammability class UL 94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

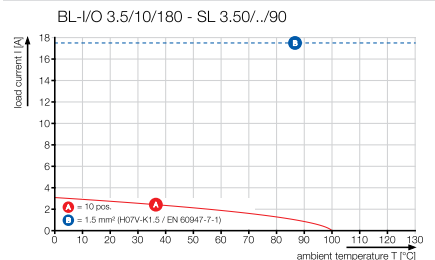
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BL SL 3.5 KO OR	1693430000
BL SL 3.5 KO SW	1610100000
Screwdriver	
SD 0,4x2,5x75	9009030000
SDI 0,4x2,5x75	9008370000
Crimping tool	
PZ 1.5	9005990000
PZ 6/5	9011460000

Ordering data

Solder pin length					
Colour			light grey		black
Pitch		3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
10	31.50	1.240	20	1871690000	1779880000

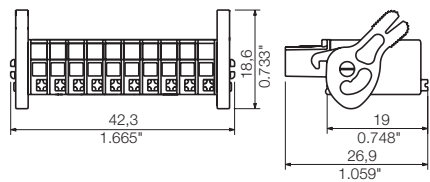
Representative derating curve



BL-I/O 3.50/10/180LR



Dimensioned drawing



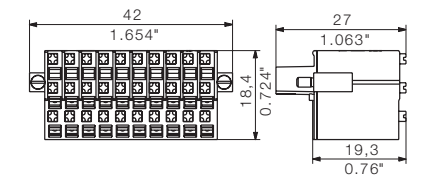
Ordering data

Solder pin length				
Colour			black	
Pitch 3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.
10	31.50	1.240	20	1000540000

BL-I/O 3.50/30/180F



Dimensioned drawing



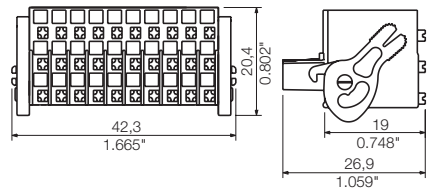
Ordering data

Solder pin length					
Colour			light grey		black
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
30	31.50	1.240	20	1965910000	1779920000

BL-I/O 3.50/30/180LR



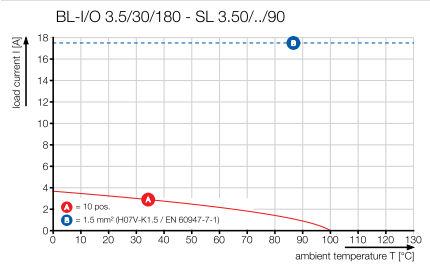
Dimensioned drawing



Ordering data

Solder pin length				
Colour			black	
Pitch 3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.
30	31.50	1.240	20	1000550000

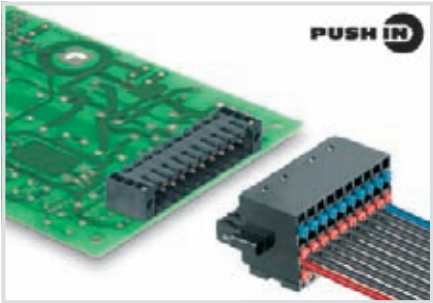
Additional derating curves



Connectors in 3.50 mm pitch

Series BL/SL 3.50

BL-I/O 3.50/./180 PNP LED



Female plug provides pluggable connection level with common minus (PNP sensor) for decentralized I/O electronics with integrated LED display; used together with male headers in 3.5 mm pitch. Available with a screw flange (F) or a lock an release lever (LR).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm²	0.2...1.5	
Solid core H05(07) V-U	mm²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm²	0.2...1.5	
Flexible with ferrule	mm²	0.2...1.5	
Ferrule with plastic collar	mm²	0.2...1.5	
Stripping length	mm	8	
Screwdriver blade	mm	0.4 x 2.5	
According to norm		DIN 5264	
Tightening torque range	Nm		
Rated current, max.	A	2.2	2.2
At ambient temperature		20°C	40°C
For conductor cross-section	mm²	1.5	
Overvoltage category		III	III
Pollution severity		3	2
Rated voltage	V	50	
Rated impulse voltage	kV	0.8	
UL / CUL (Use Group)		B	C
Rated voltage	V	50	50
Rated current	A	5	5
AWG conductor	AWG	22-16	
CSA (Use Group)		B	C
Rated voltage	V	50	50
Rated current	A	5	5
AWG conductor	AWG	22-16	
General data			
Type of insulation material		PBT	
Flammability class UL 94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: / 2.2 A / 0.2 - 1.5 mm²
UL: 50 V / 5 A / AWG 22 - 16

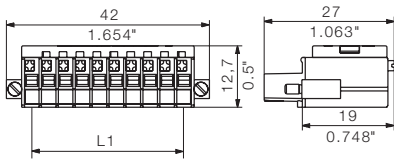
For additional articles and information, refer to catalog.weidmuller.com

- Note:**
- LED operating voltage: 10 - 30V; LED operating current: 0.8mA at 24V
 - UL approval values for „factory wiring“
 - We recommend crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for the larger wire cross-sections.
 - Total load-carrying capacity of the potential bridges when feeding with 1.5 mm² is max. 17.5 A (so the capacity is 2.18 A for poles 2 through 9).
 - Wire end ferrule without plastic collar to DIN 46228/1
 - Wire end ferrule with plastic collar to DIN 46228/4
 - Conductor < 0.2 mm² tinned
 - Max. O.D. of conductor: 2.9 mm
 - Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BL-I/O 3.50/10/180F PNP LED



Dimensioned drawing



Accessories

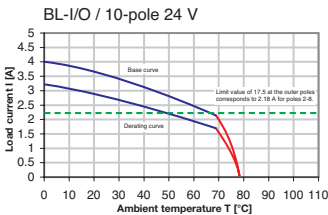
Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Screwdriver		
	SD 0,4x2,5x75	9009030000
	SDI 0,4x2,5x75	9008370000
Crimping tool		
	PZ 1.5	9005990000
	PZ 6/5	9011460000

Ordering data

Solder pin length					
Colour		light grey	black		
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
10	31.50	1.240	20	1965940000	1789090000

LED series resistors designed for 24 V

Representative derating curve

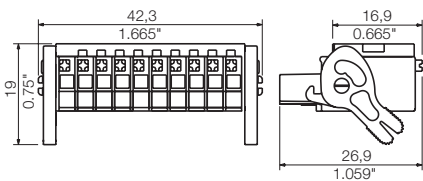


LED series resistors designed for 24 V

BL-I/O 3.50/10/180LR PNP LED



Dimensioned drawing



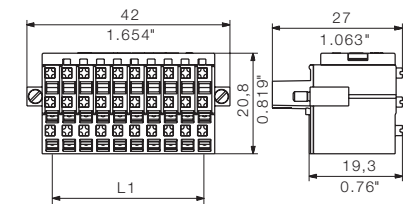
Ordering data

Solder pin length					
Colour					
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	
10	31.50	1.240	20	1000560000	

BL-I/O 3.50/30/180F PNP LED



Dimensioned drawing



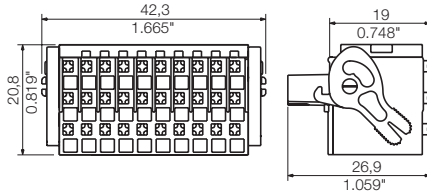
Ordering data

Solder pin length					
Colour					
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
30	31.50	1.240	20	1965970000	1789110000

BL-I/O 3.50/30/180LR PNP LED



Dimensioned drawing



Ordering data

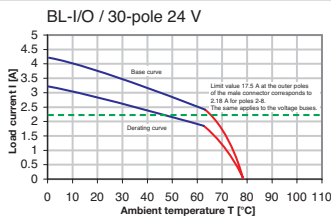
Solder pin length					
Colour					
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	
30	31.50	1.240	20	1000570000	

LED series resistors designed for 24 V

LED series resistors designed for 24 V

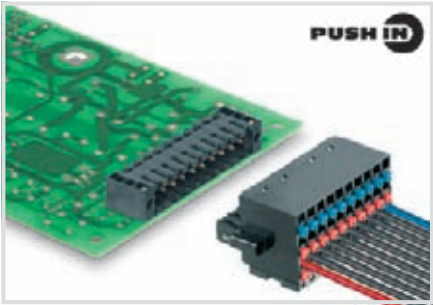
LED series resistors designed for 24 V

Additional derating curves



Connectors in 3.50 mm pitch
Series BL/SL 3.50

BL-I/O 3.50/./180 NPN LED



Female plug provides pluggable connection level with common positive (NPN sensor) for decentralized I/O electronics with integrated LED display; used together with male headers in 3.5 mm pitch. Available with a screw flange (F) or a lock an release lever (LR).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm²	0.2...1.5	
Solid core H05(07) V-U	mm²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm²	0.2...1.5	
Flexible with ferrule	mm²	0.2...1.5	
Ferrule with plastic collar	mm²	0.2...1.5	
Stripping length	mm	8	
Screwdriver blade	mm	0.4 x 2.5	
According to norm		DIN 5264	
Tightening torque range	Nm		
Rated current, max.	A	2.2	2.2
At ambient temperature		20°C	40°C
For conductor cross-section	mm²	1.5	
Overvoltage category		III	III
Pollution severity		3	2
Rated voltage	V	50	
Rated impulse voltage	kV	0.8	
UL / CUL (Use Group)		B	C D
Rated voltage	V	50	50
Rated current	A	5	5
AWG conductor	AWG	22-16	
CSA (Use Group)		B	C D
Rated voltage	V	50	50
Rated current	A	5	5
AWG conductor	AWG	22-16	
General data			
Type of insulation material		PBT	
Flammability class UL 94		V-0	
Contact base material			
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: / 2.2 A / 0.2 - 1.5 mm²
UL: 50 V / 5 A / AWG 22 - 16

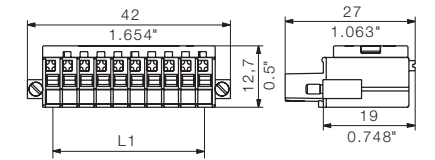
For additional articles and information, refer to catalog.weidmuller.com

- Note:**
- LED operating voltage: 10 - 30V; LED operating current: 0.8mA at 24V
 - UL approval values for „factory wiring“
 - We recommend crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for the larger wire cross-sections.
 - Total load-carrying capacity of the potential bridges when feeding with 1.5 mm² is max. 17.5 A (so the capacity is 2.18 A for poles 2 through 9).
 - Wire end ferrule without plastic collar to DIN 46228/1
 - Wire end ferrule with plastic collar to DIN 46228/4
 - Conductor < 0.2 mm² tinned
 - Max. O.D. of conductor: 2.9 mm
 - Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BL-I/O 3.50/10/180F NPN LED



Dimensioned drawing



Accessories

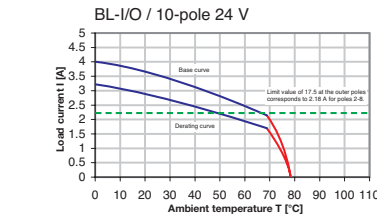
Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Screwdriver		
	SD 0,4x2,5x75	9009030000
	SDI 0,4x2,5x75	9008370000
Crimping tool		
	PZ 1.5	9005990000
	PZ 6/5	9011460000

Ordering data

Solder pin length					
Colour			light grey		black
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
10	31.50	1.240	20	1965950000	1938010000

LED series resistors designed for 24 V

Representative derating curve

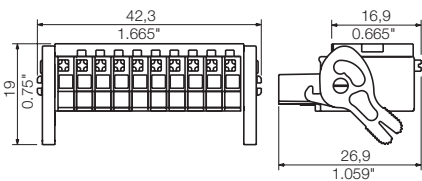


LED series resistors designed for 24 V

BL-I/O 3.50/10/180LR NPN LED



Dimensioned drawing



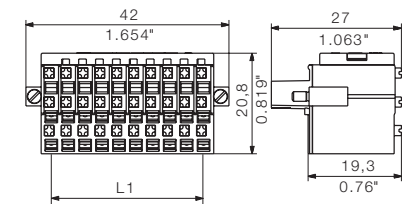
Ordering data

Solder pin length					
Colour					
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	
10	31.50	1.240	20	1000580000	

BL-I/O 3.50/30/180F NPN LED



Dimensioned drawing



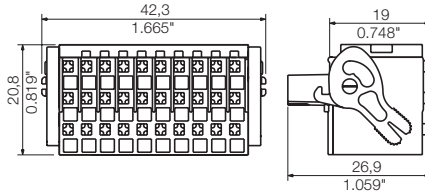
Ordering data

Solder pin length					
Colour					
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
30	31.50	1.240	20	1965980000	1938020000

BL-I/O 3.50/30/180LR NPN LED



Dimensioned drawing



Ordering data

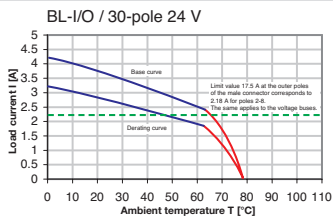
Solder pin length					
Colour					
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	
30	31.50	1.240	20	1000590000	

LED series resistors designed for 24 V

LED series resistors designed for 24 V

LED series resistors designed for 24 V

Additional derating curves



Connectors in 3.50 mm pitch

Series BL/SL 3.50

BL-I/O 3.50/..../180

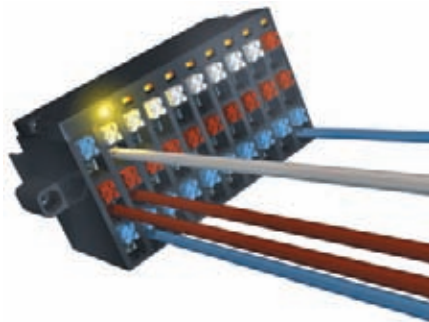
BL-I/O 3.5 30 pin

- Pluggable connection terminals for remote I/O electronics
- Directly from the control or industrial PC etc. to the sensor or actuator level
- Significant space savings as well as savings in design time and wiring.

BL-I/O 3.50/..../180 PNP LED

BL-I/O 3.5 30 pin

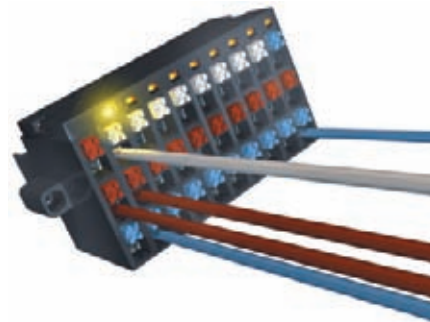
- Pluggable connection terminals for remote I/O electronics
- Directly from the control or industrial PC etc. to the sensor or actuator level
- Significant space savings as well as savings in design time and wiring.



BL-I/O 3.50/..../180 NPN LED

BL-I/O 3.5 30 pin

- Pluggable connection terminals for remote I/O electronics
- Directly from the control or industrial PC etc. to the sensor or actuator level
- Significant space savings as well as savings in design time and wiring.



Integrated LED version

- Available for all the BL-I/Os
- Test the sensor or actuator cabling before commissioning the controller
- Eliminates the need for function displays in the housing

Integrated LED version

- Available for all the BL-I/Os
- Test the sensor or actuator cabling before commissioning the controller
- Eliminates the need for function displays in the housing

Diagram of BL-I/O 30 pin with SL 3.5 10 pin

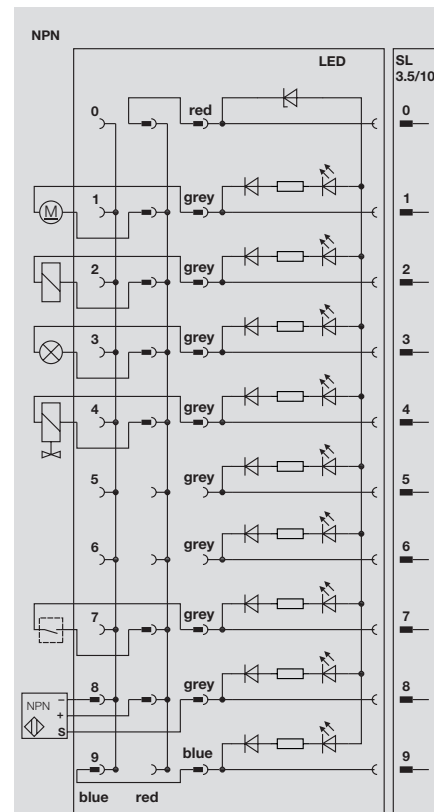
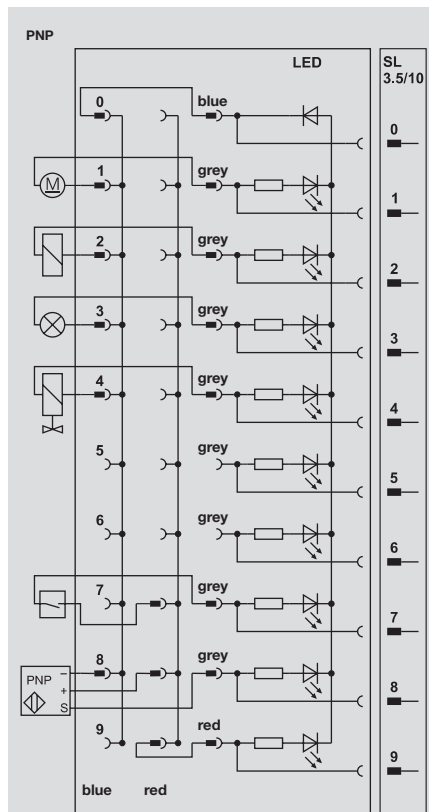
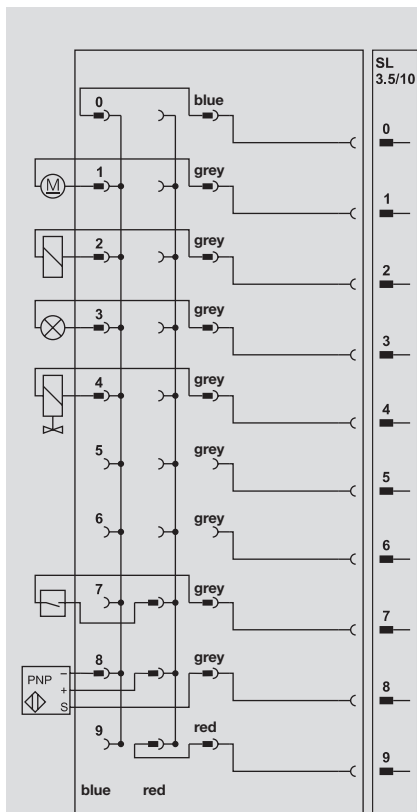
- Direct connection possibilities for sensors and actuators including their power supply
- Can be used for external or internal power supply sources

Diagram of BL-I/O 30 pin with SL 3.5 10 pin

- Direct connection possibilities for sensors and actuators including their power supply
- Can be used for external or internal power supply sources

Diagram of BL-I/O 30 pin with SL 3.5 10 pin

- Direct connection possibilities for sensors and actuators including their power supply
- Can be used for external or internal power supply sources



Plug-in connector OMNIMATE Signal 3.81

Opens up new dimensions for your application:

Large variety of products and an extensive accessory range

- All combinations are possible: wire-to-board, wire-to-wire, board-to-board, board-to-wire
- Wide range of reflow ready strips
- Individually configurable with accessories and specific printing or coding
- Compact design to connect 1.5 mm² wires

Unique performance offering high levels of redundancy

- Rated current: 17.5 A
- Up to 65 °C without derating
- Ambient temperature up to 120 °C

Safe handling characteristics

- Lock & Release lever allows tool-free locking and module-safe loosening
- Vibration resistant PUSH IN connection offers tool free wiring connection
- Proven screw connection



Simple handling

Reliable flange connections are easy to use and protect the electronic modules when they are removed: screw flange, release lever or lock & release lever.



Unique performance

High power reserves allow applications without restrictions up to the maximum wiring power rating - even in high ambient temperatures.



**Less space
required**



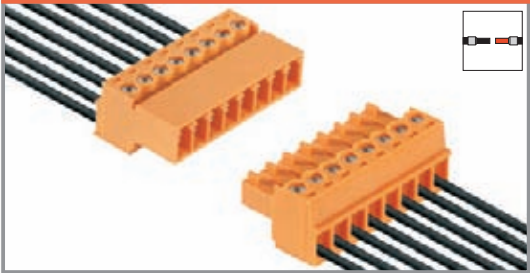
Minimum stack height, maximum clamping force and PUSH IN: the SCDN 3.81 simply handles two 7.9 mm flat BCF 3.81 with 1.5 mm² wire end ferrules.

Complete system for all possible combinations and a comprehensive range of accessories

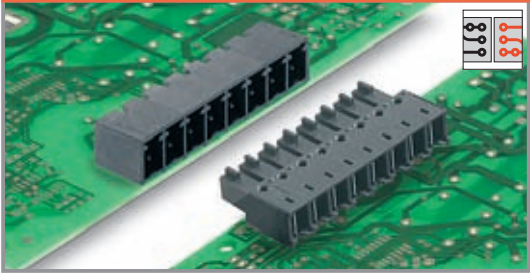
Wire to board



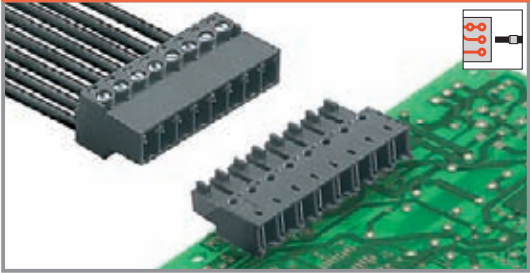
Wire to wire



Board to board



Board to wire



Accessories

Coding
SC-SMT KO GR



Light guide
display SC FLA



Cover hood
BCZ AH



**Maintenance-free, secure,
vibration-proof**

PUSH IN spring connection technology: direct connection without tools – simply plug in the prepared conductors – finished! Intuitive operation using large release buttons.

Plug-in connector OMNIMATE Signal 3.81 Brings new dimensions into handling

Best choice for reflow soldering

- Reflow strips made from the high temperature material LCP
- Form at high soldering temperatures stability
- Dimensionally stable
- Can be processed without drying (MSL 1)
- Thermal expansion properties similar to a FR4 PCB

Unique handling

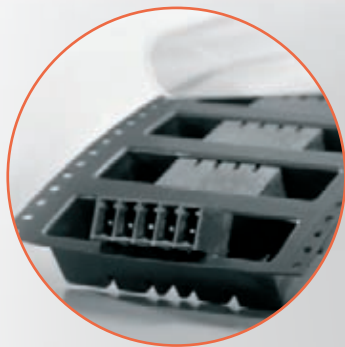
- Suitable for automatic machine handling, antistatic packaging in tape, tray or tube
- Optional Pick & Place pad supports feeder systems
- Solder flange fixes the strip to the PCB without the use of screws
- An optimised pin end which permits AOI (automated optical inspection)
- Variable pin length to support placement on both sides of the PCB
- Integrated spacing bars improve the flow of heat during the solder process
- Free space in the pin area facilitate the development of the solder meniscus.

Packaging suitable for use in automated assembly

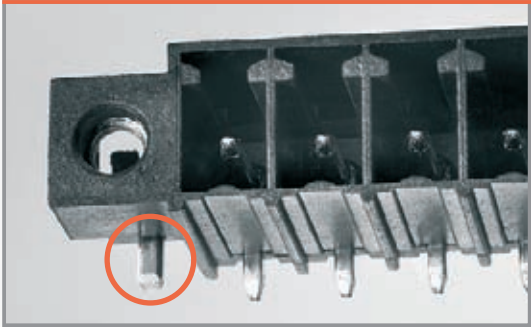
Standard belt widths for simple integration into the assembly process.

Code in advance – process universally

No additional work required for factory-side reflow-compatible coding.

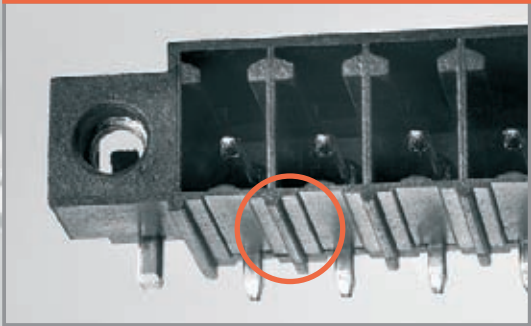


Solder flange pin



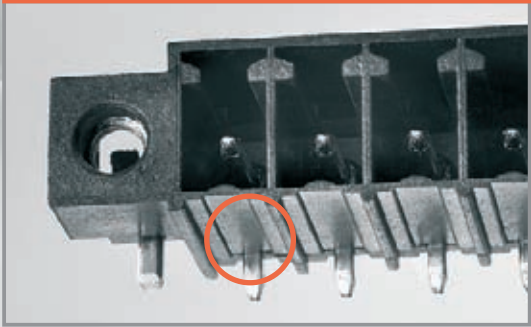
Secures to the PCB without a screw

Integrated bars



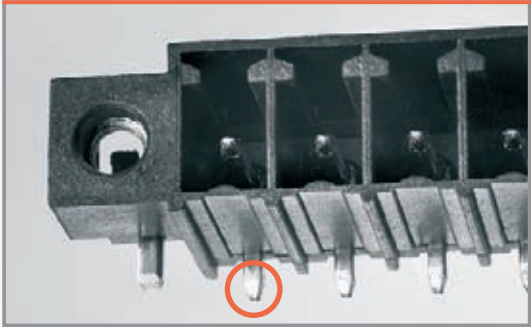
Optimal airflow during reflow soldering

Rebates in the area of the pin



Space for the development of the solder meniscus

Pin tips



Optimal recognition by the automatic optical inspection device (AOI)



SMT

No need for pre-treatment, high temperature material LCP is safe to use during the soldering process.

Connectors in 3.81 mm pitch - Series BC/SC 3.81

Quick selection

●

 = Wire to board

●

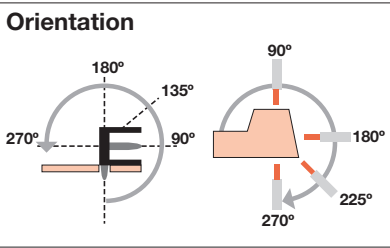
 = Board to board

●

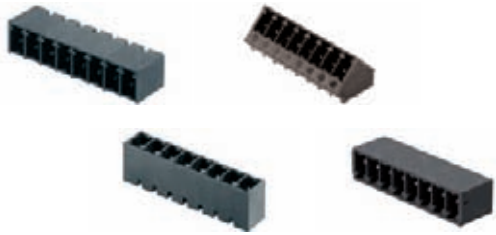
 = Wire to wire

●

 = Board to wire



Male header



		Levels			
		1			
Orientation		90°	180°	135°	270°
		Solder connection			
Type		SC	SC	SC	SC
Flange options		G/F	G/F	G/F	G/F
Page		C.84	C.86	C.88	C.90
		Reflow solder connection			
Type		SC-SMT	SC-SMT	SC-SMT	SC-SMT
Flange options		G/LF	G/LF	G/LF	G/F
Page		C.66	C.68	C.70	C.72

Female plug	 Screw		BCZ	180°	(G)/F/LR	C.106	●	●	●	●
			BCZ	90°	(G)/F	C.110	●	●	●	●
			BCZ	270°	(G)/F	C.111	●	●	●	●
Socket blocks	 PUSH IN		BCF	180°	(G)/F/LR	C.112	●	●	●	●
			BCL SMT	90°	(G)/F/LFI	C.116	●	●	●	●
			BCL SMT	180°	(G)/LFI	C.118	●	●	●	●

Female plug and header:
(G)* = Closed (without flange)
F = Flange with screw
LFI = Inverted solder flange with nut
LR = Lock & Release lever

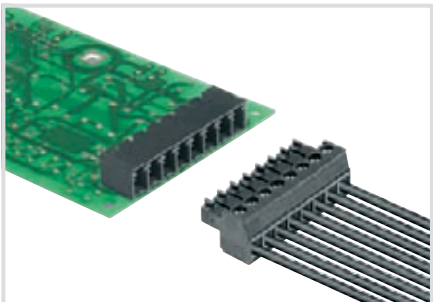
* not included in the article description

Male header and plug:
G = Closed (without flange)
F = Screw flange with nut
LF = Solder flange with nut
LR = Lock & Release lever
FI = Inverted flange with screw

Male header						Male plug
						
	2					1
	90°	180°	90°	90°	180°	180°
 Solder connection						 Screw
	SCD	SCD	SCDN	SCDV	SCDV	SCZ
	G/F	G/F	G/F	G/F	G/F	G/F/FI/LR
	C.92	C.94	C.96	C.98	C.100	C.102
 Reflow solder connection						
	SCD-THR	SCD-THR	SCDN-THR	SCDV-THR	SCDV-THR	
	G/F	G/F	G/F	G/F	G/F	
	C.74	C.76	C.78	C.80	C.82	
	●	●		●	●	●
	●	●		●	●	●
	●	●		●	●	●
	●	●	●	●	●	●
	●	●	●	●	●	
	●	●	●	●	●	

Connectors in 3.81 mm pitch Series BC/SC 3.81

SC-SMT 3.81/././90



High-temperature-resistant male header.

- Plugging direction parallel to PCB
- Available in closed (G) and with solder flange (LF).
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL)
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
CSA (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

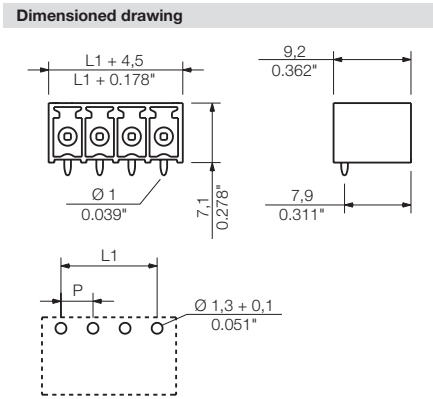
Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

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

SC-SMT 3.81/././90G Box



Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Coding	Order No.	
	SC-SMT 3.81 KO GR	1968900000

Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1862960000	1862460000
3	7.62	0.300	50	1862970000	1862480000
4	11.43	0.450	50	1862980000	1862490000
5	15.24	0.600	50	1862990000	1862500000
6	19.05	0.750	50	1863000000	1862510000
7	22.86	0.900	50	1863040000	1862520000
8	26.67	1.050	50	1863050000	1862530000
9	30.48	1.200	50	1863060000	1862540000
10	34.29	1.350	50	1863070000	1862550000
11	38.10	1.500	50	1863080000	1862570000
12	41.91	1.650	50	1863090000	1862730000
13	45.72	1.800	50	1863100000	1862740000
14	49.53	1.950	50	1863110000	1862760000
15	53.34	2.100	50	1863120000	1862780000
16	57.15	2.250	50	1863130000	1862800000

SC-SMT 3.81/./90G Tape



Dimensioned drawing

Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	400	1863140000	1862810000
3	7.62	0.300	400	1863150000	1862840000
4	11.43	0.450	400	1863160000	1862860000
5	15.24	0.600	400	1863170000	1862870000
6	19.05	0.750	400	1863180000	1862880000
7	22.86	0.900	400	1863190000	1862890000
8	26.67	1.050	400	1863200000	1862900000
9	30.48	1.200	400	1863210000	1862910000
10	34.29	1.350	400	1863220000	1862930000

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

SC-SMT 3.81/./90LF Box



Dimensioned drawing

Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch				3.81 mm	
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1862560000	1863670000
3	7.62	0.300	50	1862580000	1863680000
4	11.43	0.450	50	1862590000	1863690000
5	15.24	0.600	50	1862600000	1863700000
6	19.05	0.750	50	1862610000	1863710000
7	22.86	0.900	50	1862620000	1863740000
8	26.67	1.050	50	1862630000	1863760000
9	30.48	1.200	50	1862640000	1863770000
10	34.29	1.350	50	1862650000	1863790000
11	38.10	1.500	50	1862660000	1863810000
12	41.91	1.650	50	1862670000	1863820000
13	45.72	1.800	50	1862680000	1863840000
14	49.53	1.950	50	1862690000	1863850000
15	53.34	2.100	50	1862700000	1863860000
16	57.15	2.250	50	1862710000	1863870000

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

SC-SMT 3.81/./90LF Tape



Dimensioned drawing

Ordering data

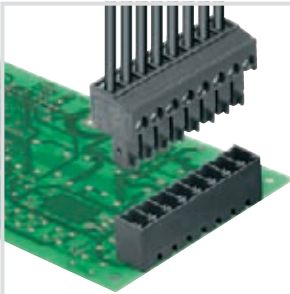
Solder pin length			1.5 mm		3.2 mm	
Colour			black		black	
Pitch 3.81 mm						
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
2	3.81	0.150	400	1862720000	1863890000	
3	7.62	0.300	400	1862750000	1863970000	
4	11.43	0.450	400	1862770000	1863980000	
5	15.24	0.600	400	1862790000	1863990000	
6	19.05	0.750	400	1862820000	1864000000	
7	22.86	0.900	400	1862830000	1864010000	
8	26.67	1.050	400	1862850000	1864020000	

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

Connectors in 3.81 mm pitch

Series BC/SC 3.81

SC-SMT 3.81/././180



High-temperature-resistant male header.

- Plugging direction is perpendicular to PCB
- Available in closed (G) and with solder flange (LF).
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL)
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)	B	C	D	
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG	-		
CSA (Use Group)	B	C	D	
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG	-		
General data				
Type of insulation material		LCP GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

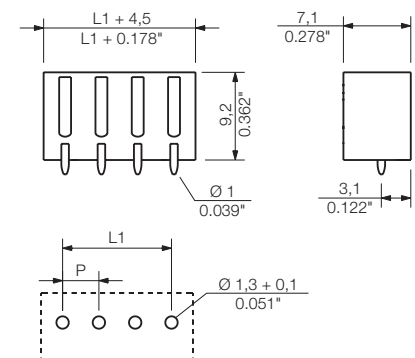
Note:

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

SC-SMT 3.81/././180G Box



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
SC-SMT 3.81 KO GR	1968900000

Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1863720000	1862920000
3	7.62	0.300	50	1863730000	1862940000
4	11.43	0.450	50	1863750000	1862950000
5	15.24	0.600	50	1863780000	1863010000
6	19.05	0.750	50	1863830000	1863020000
7	22.86	0.900	50	1863880000	1863030000
8	26.67	1.050	50	1863900000	1863240000
9	30.48	1.200	50	1863910000	1863270000
10	34.29	1.350	50	1863920000	1863290000
11	38.10	1.500	50	1863930000	1863320000
12	41.91	1.650	50	1863940000	1863330000
13	45.72	1.800	50	1863950000	1863350000
14	49.53	1.950	50	1863960000	1863370000
15	53.34	2.100	50	1864030000	1863400000
16	57.15	2.250	50	1864040000	1863420000

SC-SMT 3.81/./180G Tape

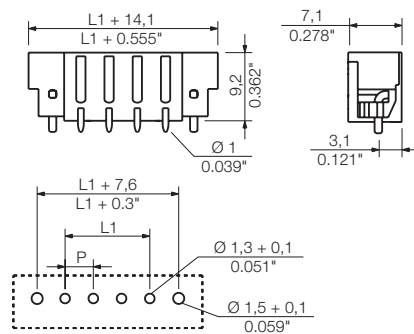


Dimensioned drawing

SC-SMT 3.81/./180LF Box



Dimensioned drawing



SC-SMT 3.81/./180LF Tape



Dimensioned drawing

Ordering data

Solder pin length		1.5 mm	3.2 mm
Colour		black	black
Pitch		3.81 mm	
Pol.	L1 (inch)	Qty.	Order No.
2	3.81	0.150	300 1864050000 1863450000
3	7.62	0.300	300 1864060000 1863470000
4	11.43	0.450	300 1864290000 1863490000
5	15.24	0.600	300 1864300000 1863540000
6	19.05	0.750	300 1864310000 1863560000
7	22.86	0.900	300 1864320000 1863570000
8	26.67	1.050	300 1864330000 1863590000
9	30.48	1.200	300 1864340000 1863630000
10	34.29	1.350	300 1864350000 1863660000

Ordering data

Solder pin length		1.5 mm	3.2 mm
Colour		black	black
Pitch		3.81 mm	
Pol.	L1 (inch)	Qty.	Order No.
2	3.81	0.150	50 1864070000 1863230000
3	7.62	0.300	50 1864080000 1863250000
4	11.43	0.450	50 1864090000 1863260000
5	15.24	0.600	50 1864100000 1863280000
6	19.05	0.750	50 1864110000 1863300000
7	22.86	0.900	50 1864120000 1863310000
8	26.67	1.050	50 1864130000 1863340000
9	30.48	1.200	50 1864140000 1863360000
10	34.29	1.350	50 1864150000 1863380000
11	38.10	1.500	50 1864160000 1863390000
12	41.91	1.650	50 1864170000 1863410000
13	45.72	1.800	50 1864180000 1863430000
14	49.53	1.950	50 1864190000 1863440000
15	53.34	2.100	50 1864200000 1863460000
16	57.15	2.250	50 1864210000 1863480000

Ordering data

Solder pin length		1.5 mm	3.2 mm
Colour		black	black
Pitch		3.81 mm	
Pol.	L1 (inch)	Qty.	Order No.
2	3.81	0.150	300 1864220000 1863500000
3	7.62	0.300	300 1864230000 1863510000
4	11.43	0.450	300 1864240000 1863530000
5	15.24	0.600	300 1864250000 1863580000
6	19.05	0.750	300 1864260000 1863600000
7	22.86	0.900	300 1864270000 1863620000
8	26.67	1.050	300 1864280000 1863640000

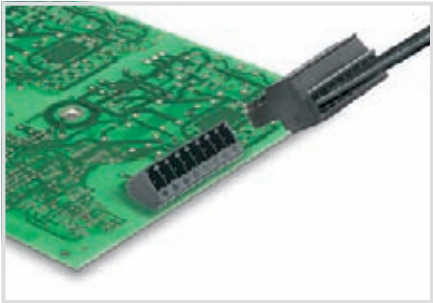
Tape widths: 32, 44, 56, 72, 88

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

Connectors in 3.81 mm pitch

Series BC/SC 3.81

SC-SMT 3.81/././135



Male header with 135° plugging angle (135° angle between the plugging direction and the solder pin). This corresponds to a 45° angle between the wire orientation and the circuit board.

- Reflow compatible
- Available in closed (G) and with solder flange (LF).
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17.5	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)	B C D			
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
CSA (Use Group)	B C D			
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

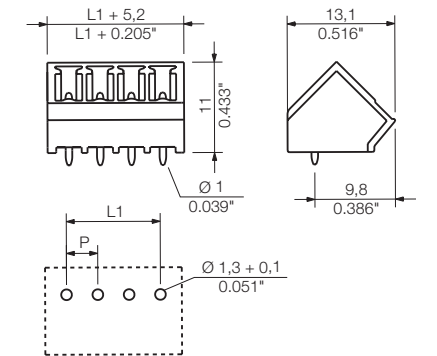
For additional articles and information, refer to catalog.weidmueller.com

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

SC-SMT 3.81/././135G



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Coding	Order No.	
	SC-SMT 3.81 KO GR	1968900000

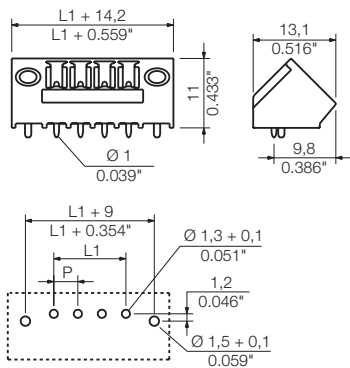
Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1977930000	1977200000
3	7.62	0.300	50	1977940000	1977210000
4	11.43	0.450	50	1977950000	1977220000
5	15.24	0.600	50	1977960000	1977230000
6	19.05	0.750	50	1977970000	1977240000
7	22.86	0.900	50	1977980000	1977250000
8	26.67	1.050	50	1977990000	1977260000
9	30.48	1.200	50	1978000000	1977270000
10	34.29	1.350	50	1978010000	1977280000
11	38.10	1.500	50	1978020000	1977290000
12	41.91	1.650	50	1978030000	1977300000
13	45.72	1.800	50	1978040000	1977310000
14	49.53	1.950	50	1978050000	1977320000
15	53.34	2.100	50	1978060000	1977330000
16	57.15	2.250	50	1978070000	1977340000

SC-SMT 3.81/./135LF



Dimensioned drawing



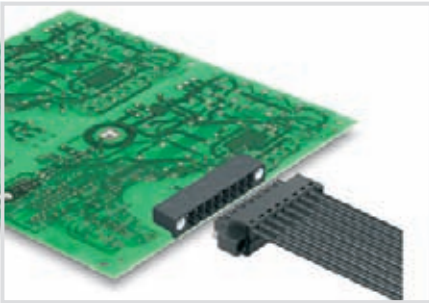
Ordering data

Solder pin length			1.5 mm	3.2 mm	
Colour			black	black	
Pitch			3.81 mm		
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1978380000	1978080000
3	7.62	0.300	50	1978390000	1978090000
4	11.43	0.450	50	1978400000	1978100000
5	15.24	0.600	50	1978410000	1978110000
6	19.05	0.750	50	1978420000	1978120000
7	22.86	0.900	50	1978430000	1978130000
8	26.67	1.050	50	1978440000	1978140000
9	30.48	1.200	50	1978450000	1978150000
10	34.29	1.350	50	1978460000	1978160000
11	38.10	1.500	50	1978470000	1978170000
12	41.91	1.650	50	1978480000	1978180000
13	45.72	1.800	50	1978490000	1978190000
14	49.53	1.950	50	1978500000	1978200000
15	53.34	2.100	50	1978510000	1978210000
16	57.15	2.250	50	1978520000	1978220000

Connectors in 3.81 mm pitch

Series BC/SC 3.81

SC-SMT 3.81/././270



High-temperature-resistant male header with 270° plugging angle (the angle between the plugging direction and the solder pin). This angle has a plugging direction that is parallel to the circuit board with female plugs plugged in upside down.

- Reflow compatible
- Available in closed (G) version and with screw flange (F).
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

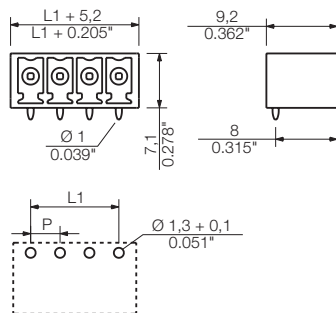
Note:

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

SC-SMT 3.81/././270G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17.5	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)	B C D			
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
CSA (Use Group)	B C D			
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
SC-SMT 3.81 KO GR	1968900000

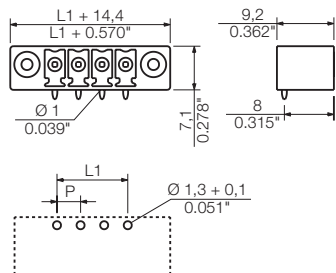
Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1036830000	1036480000
3	7.62	0.300	50	1036840000	1036490000
4	11.43	0.450	50	1036850000	1036510000
5	15.24	0.600	50	1036860000	1036520000
6	19.05	0.750	50	1036870000	1036530000
7	22.86	0.900	50	1036880000	1036540000
8	26.67	1.050	50	1036890000	1036550000
9	30.48	1.200	50	1036910000	1036560000
10	34.29	1.350	50	1036920000	1036570000
11	38.10	1.500	50	1036930000	1036580000
12	41.91	1.650	50	1036940000	1036590000
13	45.72	1.800	50	1036950000	1036610000
14	49.53	1.950	50	1036960000	1036620000
15	53.34	2.100	50	1036970000	1036630000
16	57.15	2.250	50	1036980000	1036640000

SC-SMT 3.81/./270F



Dimensioned drawing



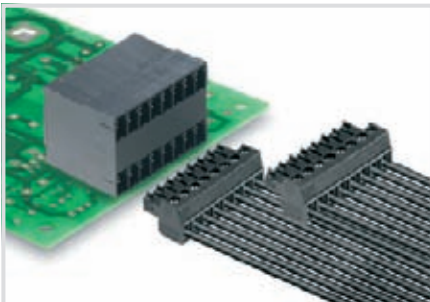
Ordering data

Solder pin length			1.5 mm	3.2 mm	
Colour			black	black	
Pitch			3.81 mm		
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1037330000	1036990000
3	7.62	0.300	50	1037340000	1037010000
4	11.43	0.450	50	1037350000	1037020000
5	15.24	0.600	50	1037360000	1037030000
6	19.05	0.750	50	1037370000	1037040000
7	22.86	0.900	50	1037380000	1037050000
8	26.67	1.050	50	1037390000	1037060000
9	30.48	1.200	50	1037400000	1037070000
10	34.29	1.350	50	1037410000	1037080000
11	38.10	1.500	50	1037420000	1037090000
12	41.91	1.650	50	1037440000	1037110000
13	45.72	1.800	50	1037450000	1037120000
14	49.53	1.950	50	1037460000	1037130000
15	53.34	2.100	50	1037470000	1037140000
16	57.15	2.250	50	1037480000	1037150000

Connectors in 3.81 mm pitch

Series BC/SC 3.81

SCD-THR 3.81/././90



High-temperature-resistant, double-level male header for reflow soldering.

- Orientation: 90°
- Designed for front panel applications.
- Available in closed (G) version and with screw flange (F).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
CSA (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

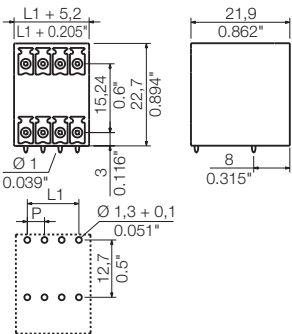
Note:

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

SCD-THR 3.81/././90G



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
SC-SMT 3.81 KO GR	1968900000

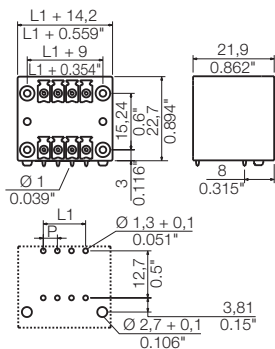
Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1974030000	1973730000
6	7.62	0.300	50	1974040000	1973740000
8	11.43	0.450	50	1974050000	1973750000
10	15.24	0.600	50	1974060000	1973760000
12	19.05	0.750	50	1974070000	1973770000
14	22.86	0.900	50	1974080000	1973780000
16	26.67	1.050	50	1974090000	1973790000
18	30.48	1.200	50	1974100000	1973800000
20	34.29	1.350	50	1974110000	1973810000
22	38.10	1.500	50	1974120000	1973820000
24	41.91	1.650	50	1974130000	1973830000
26	45.72	1.800	20	1974140000	1973840000
28	49.53	1.950	20	1974150000	1973850000
30	53.34	2.100	20	1974160000	1973860000
32	57.15	2.250	20	1974170000	1973870000

SCD-THR 3.81/././90F



Dimensioned drawing



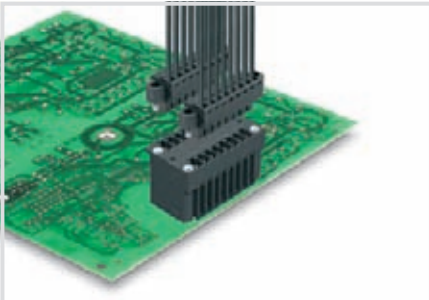
Ordering data

Solder pin length		1.5 mm		3.2 mm	
Colour		black		black	
Pitch		3.81 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1974830000	1974180000
6	7.62	0.300	50	1974870000	1974190000
8	11.43	0.450	50	1974900000	1974200000
10	15.24	0.600	50	1974920000	1974210000
12	19.05	0.750	50	1974950000	1974220000
14	22.86	0.900	50	1974980000	1974230000
16	26.67	1.050	50	1974990000	1974240000
18	30.48	1.200	50	1975010000	1974250000
20	34.29	1.350	50	1975040000	1974290000
22	38.10	1.500	50	1975090000	1974310000
24	41.91	1.650	50	1975110000	1974330000
26	45.72	1.800	20	1975130000	1974350000
28	49.53	1.950	20	1975140000	1974440000
30	53.34	2.100	20	1975170000	1974470000
32	57.15	2.250	20	1975190000	1974490000

Connectors in 3.81 mm pitch

Series BC/SC 3.81

SCD-THR 3.81/./180



High-temperature-resistant, double-level male header for reflow soldering.

- Orientation: 180°
- Available in closed (G) version and with screw flange (F).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

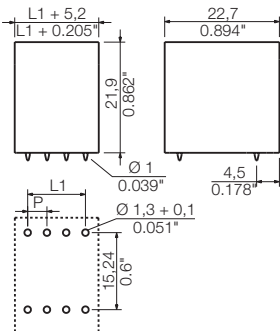
Note:

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

SCD-THR 3.81/./180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)	B	C	D	
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG	-	-	
CSA (Use Group)	B	C	D	
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG	-	-	
General data				
Type of insulation material		LCP GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	SC-SMT 3.81 KO GR	1968900000
	PTSC KA 22X4.5	1610740000

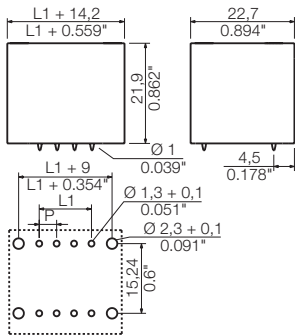
Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1031290000	1030950000
6	7.62	0.300	50	1031310000	1030960000
8	11.43	0.450	50	1031320000	1030970000
10	15.24	0.600	50	1031330000	1030980000
12	19.05	0.750	50	1031340000	1030990000
14	22.86	0.900	50	1031350000	1031010000
16	26.67	1.050	50	1031360000	1031020000
18	30.48	1.200	50	1031370000	1031030000
20	34.29	1.350	50	1031380000	1031040000
22	38.10	1.500	50	1031390000	1031050000
24	41.91	1.650	50	1031410000	1031060000
26	45.72	1.800	20	1031420000	1031070000
28	49.53	1.950	20	1031430000	1031080000
30	53.34	2.100	20	1031440000	1031090000
32	57.15	2.250	20	1031450000	1031110000

SCD-THR 3.81/././180F



Dimensioned drawing



Ordering data

Solder pin length		1.5 mm	3.2 mm
Colour		black	black
Pitch 3.81 mm			
Pol.	L1 (inch)	Qty.	Order No.
4	3.81 0.150	50	1031860000 1031460000
6	7.62 0.300	50	1031870000 1031470000
8	11.43 0.450	50	1031890000 1031490000
10	15.24 0.600	50	1031910000 1031510000
12	19.05 0.750	50	1031920000 1031520000
14	22.86 0.900	50	1031930000 1031530000
16	26.67 1.050	50	1031940000 1031540000
18	30.48 1.200	50	1031950000 1031560000
20	34.29 1.350	50	1031960000 1031570000
22	38.10 1.500	50	1031970000 1031590000
24	41.91 1.650	50	1031990000 1031610000
26	45.72 1.800	20	1032040000 1031620000
28	49.53 1.950	20	1032050000 1031630000
30	53.34 2.100	20	1032060000 1031640000
32	57.15 2.250	20	1032070000 1031660000

Connectors in 3.81 mm pitch Series BC/SC 3.81

SCDN-THR 3.81/..../90



Compact double-level male header for reflow soldering process. For use with BCF 3.81 plugs.

- Orientation: 90°
- Designed for front panel applications.
- Available in closed (G) version and with screw flange (F).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
CSA (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

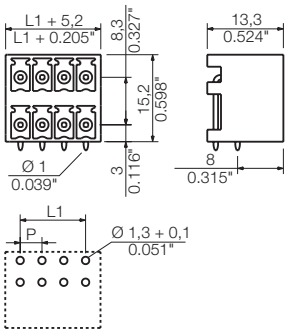
Note:

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

SCDN-THR 3.81/..../90G



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
SC-SMT 3.81 KO GR	1968900000

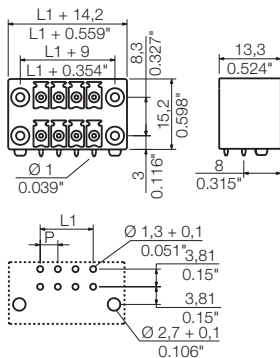
Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1039270000	1038950000
6	7.62	0.300	50	1039280000	1038960000
8	11.43	0.450	50	1039290000	1038970000
10	15.24	0.600	50	1039300000	1038980000
12	19.05	0.750	50	1039310000	1038990000
14	22.86	0.900	50	1039320000	1039010000
16	26.67	1.050	50	1039330000	1039020000
18	30.48	1.200	50	1039340000	1039030000
20	34.29	1.350	50	1039350000	1039040000
22	38.10	1.500	50	1039370000	1039050000
24	41.91	1.650	50	1039380000	1039060000
26	45.72	1.800	20	1039390000	1039070000
28	49.53	1.950	20	1039410000	1039080000
30	53.34	2.100	20	1039420000	1039090000
32	57.15	2.250	20	1039430000	1039100000

SCDN-THR 3.81/./90F



Dimensioned drawing

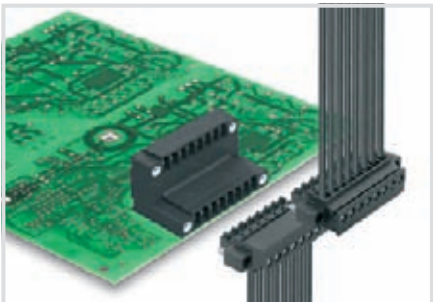


Ordering data

Solder pin length			1.5 mm	3.2 mm	
Colour			black	black	
Pitch			3.81 mm		
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1040070000	1039440000
6	7.62	0.300	50	1040090000	1039450000
8	11.43	0.450	50	1040140000	1039460000
10	15.24	0.600	50	1040150000	1039520000
12	19.05	0.750	50	1040170000	1039530000
14	22.86	0.900	50	1040190000	1039540000
16	26.67	1.050	50	1040230000	1039550000
18	30.48	1.200	50	1040250000	1039560000
20	34.29	1.350	50	1040260000	1039570000
22	38.10	1.500	50	1040270000	1039580000
24	41.91	1.650	50	1040280000	1039590000
26	45.72	1.800	20	1040290000	1039610000
28	49.53	1.950	20	1040300000	1039720000
30	53.34	2.100	20	1040380000	1039730000
32	57.15	2.250	20	1040390000	1039740000

Connectors in 3.81 mm pitch Series BC/SC 3.81

SCDV-THR 3.81/./90



High-temperature-resistant, double-level male header for reflow soldering.

- Orientation: 90°
- Connections at two offset levels and open access to each row.
- Available in Closed (G) version and with screw flange (F).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)	B	C	D	
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG			
CSA (Use Group)	B	C	D	
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG	-	-	
General data				
Type of insulation material		LCP GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Product data

IEC: 320 V / 17.5
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

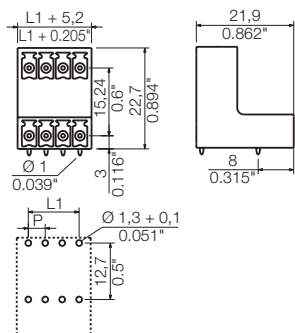
Note:

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

SCDV-THR 3.81/./90G



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
SC-SMT 3.81 KO GR	1968900000

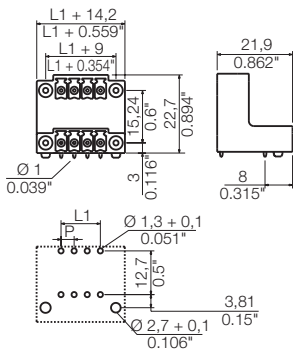
Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1033820000	1033490000
6	7.62	0.300	50	1033830000	1033510000
8	11.43	0.450	50	1033840000	1033520000
10	15.24	0.600	50	1033850000	1033530000
12	19.05	0.750	50	1033860000	1033540000
14	22.86	0.900	50	1033870000	1033550000
16	26.67	1.050	50	1033880000	1033560000
18	30.48	1.200	50	1033890000	1033570000
20	34.29	1.350	50	1033900000	1033580000
22	38.10	1.500	50	1033910000	1033590000
24	41.91	1.650	50	1033920000	1033600000
26	45.72	1.800	20	1033930000	1033610000
28	49.53	1.950	20	1033940000	1033620000
30	53.34	2.100	20	1033950000	1033630000
32	57.15	2.250	20	1033960000	1033640000

SCDV-THR 3.81/./90F



Dimensioned drawing



Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1034310000	1033970000
6	7.62	0.300	50	1034320000	1033980000
8	11.43	0.450	50	1034330000	1033990000
10	15.24	0.600	50	1034340000	1034010000
12	19.05	0.750	50	1034350000	1034020000
14	22.86	0.900	50	1034360000	1034030000
16	26.67	1.050	50	1034370000	1034040000
18	30.48	1.200	50	1034380000	1034050000
20	34.29	1.350	50	1034390000	1034060000
22	38.10	1.500	50	1034410000	1034070000
24	41.91	1.650	50	1034420000	1034080000
26	45.72	1.800	20	1034430000	1034090000
28	49.53	1.950	20	1034440000	1034110000
30	53.34	2.100	20	1034450000	1034120000
32	57.15	2.250	20	1034460000	1034130000

Connectors in 3.81 mm pitch

Series BC/SC 3.81

SCDV-THR 3.81/./180



High-temperature-resistant, double-level male header for reflow soldering.

- Outlet direction: 180°
- Connections at two offset levels and open access to each row.
- Available in Closed (G) version and with screw flange (F).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG	-		
CSA (Use Group)		B	C	D
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG	-		
General data				
Type of insulation material		LCP GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Product data

IEC: 320 V / 17.5
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

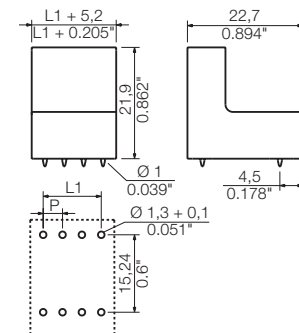
Note:

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

SCDV-THR 3.81/./180G



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	1968900000
	PTSC KA 22X4.5	1610740000

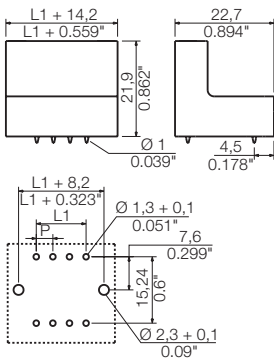
Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1035790000	1035470000
6	7.62	0.300	50	1035800000	1035480000
8	11.43	0.450	50	1035810000	1035490000
10	15.24	0.600	50	1035820000	1035510000
12	19.05	0.750	50	1035830000	1035520000
14	22.86	0.900	50	1035840000	1035530000
16	26.67	1.050	50	1035850000	1035540000
18	30.48	1.200	50	1035860000	1035550000
20	34.29	1.350	50	1035870000	1035560000
22	38.10	1.500	50	1035880000	1035570000
24	41.91	1.650	50	1035890000	1035580000
26	45.72	1.800	20	1035910000	1035590000
28	49.53	1.950	20	1035920000	1035610000
30	53.34	2.100	20	1035930000	1035620000
32	57.15	2.250	20	1035940000	1035630000

SCDV-THR 3.81../180F



Dimensioned drawing



Ordering data

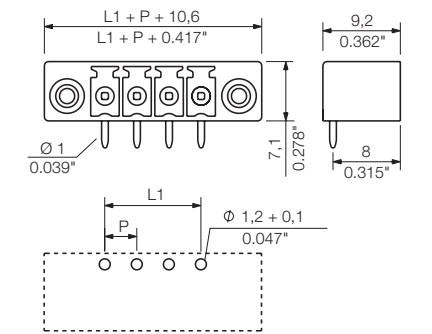
Solder pin length				1.5 mm	3.2 mm
Colour				black	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1036320000	1035950000
6	7.62	0.300	50	1036330000	1035960000
8	11.43	0.450	50	1036340000	1035970000
10	15.24	0.600	50	1036350000	1035980000
12	19.05	0.750	50	1036360000	1035990000
14	22.86	0.900	50	1036370000	1036010000
16	26.67	1.050	50	1036380000	1036020000
18	30.48	1.200	50	1036390000	1036030000
20	34.29	1.350	50	1036410000	1036040000
22	38.10	1.500	50	1036420000	1036050000
24	41.91	1.650	50	1036430000	1036060000
26	45.72	1.800	20	1036440000	1036070000
28	49.53	1.950	20	1036450000	1036080000
30	53.34	2.100	20	1036460000	1036090000
32	57.15	2.250	20	1036470000	1036110000



SC 3.81/./90F



Dimensioned drawing



Ordering data

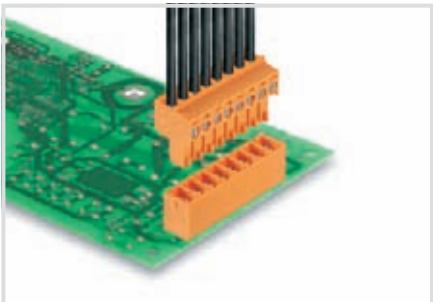
Solder pin length		3.2 mm	3.2 mm		
Colour		orange	black		
Pitch		3.81 mm			
Pol.	L1 (inch)	Qty.	Order No.	Order No.	
2	3.81	0.150	50	1942450000	1793330000
3	7.62	0.300	50	1942460000	1793340000
4	11.43	0.450	50	1942470000	1793350000
5	15.24	0.600	50	1942480000	1793360000
6	19.05	0.750	50	1942490000	1793370000
7	22.86	0.900	50	1942500000	1942740000
8	26.67	1.050	50	1942510000	1793380000
9	30.48	1.200	50	1942520000	1942750000
10	34.29	1.350	50	1942530000	1793390000
11	38.10	1.500	50	1942540000	1942760000
12	41.91	1.650	50	1942550000	1793400000
13	45.72	1.800	50	1942560000	1942770000
14	49.53	1.950	50	1942570000	1942780000
15	53.34	2.100	50	1942580000	1942790000
16	57.15	2.250	50	1942590000	1793410000
17	60.96	2.400	50	1942600000	1942800000
18	64.77	2.550	50	1942610000	1942810000
19	68.58	2.700	50	1942620000	1942820000
20	72.39	2.850	50	1942630000	1942830000



Connectors in 3.81 mm pitch

Series BC/SC 3.81

SC 3.81/.. /180



The 180° male header has a perpendicular plugging direction in relation to the circuit board. It is available in closed (G) and screw flange (F) versions.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17.5	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
CSA (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

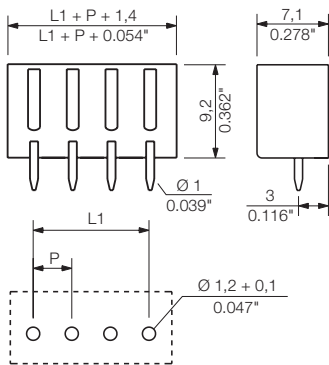
For additional articles and information, refer to catalog.weidmueller.com

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

SC 3.81/.. /180G



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	SC-SMT 3.81 KO GR	1968900000
	PTSC KA 22X4.5	1610740000

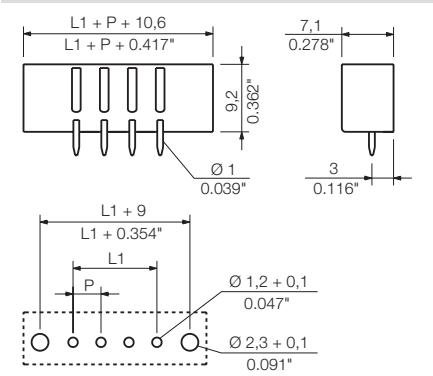
Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				orange	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1942840000	1793520000
3	7.62	0.300	50	1942850000	1793530000
4	11.43	0.450	50	1942860000	1793540000
5	15.24	0.600	50	1942870000	1793550000
6	19.05	0.750	50	1942880000	1793560000
7	22.86	0.900	50	1942890000	1871490000
8	26.67	1.050	50	1942900000	1793570000
9	30.48	1.200	50	1942910000	1871470000
10	34.29	1.350	50	1942920000	1793580000
11	38.10	1.500	50	1942930000	1943100000
12	41.91	1.650	50	1942940000	1793590000
13	45.72	1.800	50	1942950000	1943110000
14	49.53	1.950	50	1942960000	1943120000
15	53.34	2.100	50	1942970000	1943130000
16	57.15	2.250	50	1942980000	1793600000
17	60.96	2.400	50	1942990000	1943140000
18	64.77	2.550	50	1943000000	1943150000
19	68.58	2.700	50	1943010000	1943160000
20	72.39	2.850	50	1943020000	1943170000

SC 3.81/./180F



Dimensioned drawing



Ordering data

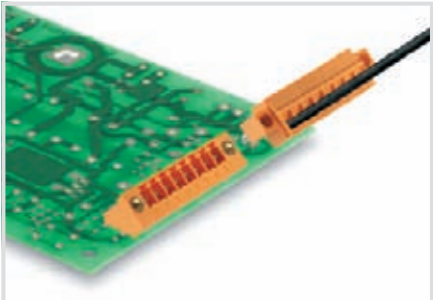
Solder pin length		3.2 mm		3.2 mm	
Colour		orange		black	
Pitch		3.81 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1943180000	1793700000
3	7.62	0.300	50	1943190000	1793710000
4	11.43	0.450	50	1943200000	1793720000
5	15.24	0.600	50	1943210000	1793730000
6	19.05	0.750	50	1943220000	1793740000
7	22.86	0.900	50	1943230000	1837010000
8	26.67	1.050	50	1943240000	1793750000
9	30.48	1.200	50	1943250000	1943470000
10	34.29	1.350	50	1943260000	1793760000
11	38.10	1.500	50	1943270000	1943480000
12	41.91	1.650	50	1943280000	1793770000
13	45.72	1.800	50	1943290000	1943490000
14	49.53	1.950	50	1943300000	1943500000
15	53.34	2.100	50	1943310000	1943510000
16	57.15	2.250	50	1943320000	1793780000
17	60.96	2.400	50	1943330000	1943520000
18	64.77	2.550	50	1943340000	1943530000
19	68.58	2.700	50	1943350000	1943540000
20	72.39	2.850	50	1943360000	1943550000



Connectors in 3.81 mm pitch

Series BC/SC 3.81

SC 3.81/..../135



Male header with 135° plugging angle – (135° angle between the plugging direction and the solder pin). This corresponds to a 45° angle between the wire outlet and the circuit board.

- Available in Closed (G) version and with screw flange (F).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

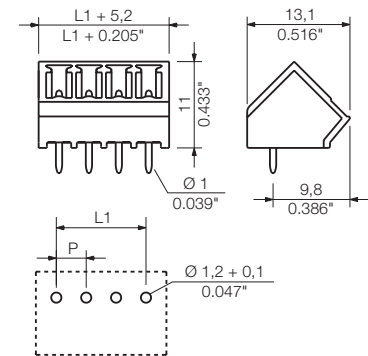
Note:

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

SC 3.81/..../135G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17.5	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)	B C D			
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
CSA (Use Group)	B C D			
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
SC-SMT 3.81 KO GR	1968900000

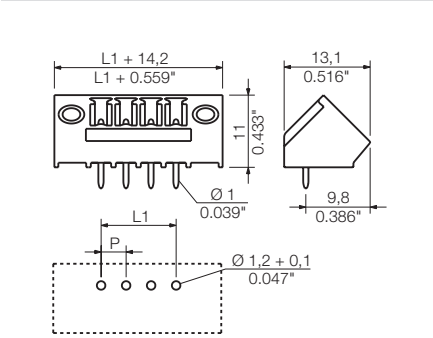
Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				orange	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1975720000	1976380000
3	7.62	0.300	50	1975770000	1976400000
4	11.43	0.450	50	1975800000	1976420000
5	15.24	0.600	50	1975810000	1976450000
6	19.05	0.750	50	1975880000	1976460000
7	22.86	0.900	50	1975900000	1976510000
8	26.67	1.050	50	1975920000	1976540000
9	30.48	1.200	50	1975930000	1976560000
10	34.29	1.350	50	1975940000	1976600000
11	38.10	1.500	50	1975950000	1976630000
12	41.91	1.650	50	1975960000	1976660000
13	45.72	1.800	50	1975970000	1976700000
14	49.53	1.950	50	1975980000	1976710000
15	53.34	2.100	50	1975990000	1976720000
16	57.15	2.250	50	1976000000	1976730000

SC 3.81/..../135F



Dimensioned drawing



Ordering data

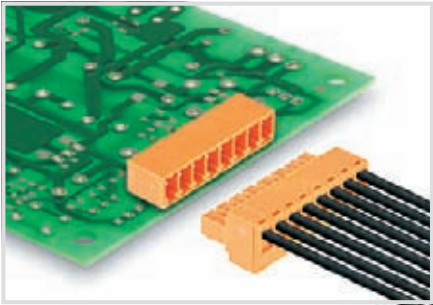
Solder pin length				3.2 mm	3.2 mm
Colour				orange	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1976740000	1977040000
3	7.62	0.300	50	1976750000	1977050000
4	11.43	0.450	50	1976760000	1977060000
5	15.24	0.600	50	1976770000	1977070000
6	19.05	0.750	50	1976780000	1977080000
7	22.86	0.900	50	1976790000	1977090000
8	26.67	1.050	50	1976800000	1977100000
9	30.48	1.200	50	1976810000	1977110000
10	34.29	1.350	50	1976820000	1977120000
11	38.10	1.500	50	1976830000	1977130000
12	41.91	1.650	50	1976840000	1977140000
13	45.72	1.800	50	1976850000	1977150000
14	49.53	1.950	50	1976860000	1977160000
15	53.34	2.100	50	1976870000	1977170000
16	57.15	2.250	50	1976880000	1977180000



Connectors in 3.81 mm pitch

Series BC/SC 3.81

SC 3.81/..../270



Male header with 270° plugging angle (270° angle between the plugging direction and the solder pin). This angle has a plugging direction that is parallel to the circuit board with female plugs plugged in upside down.

- Available in closed (G) version and with screw flange (F).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

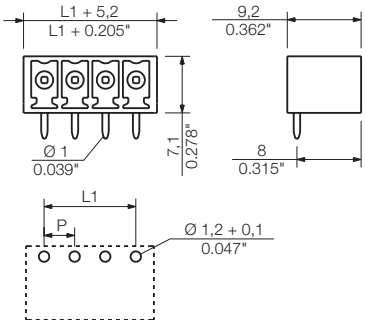
Note:

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

SC 3.81/..../270G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17.5	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)	B	C	D	
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
CSA (Use Group)	B	C	D	
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
SC-SMT 3.81 KO GR	1968900000

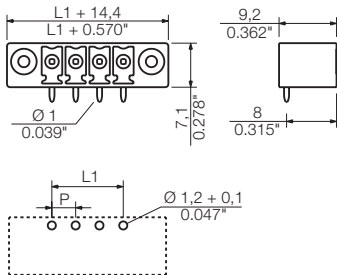
Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				orange	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1037490000	1037870000
3	7.62	0.300	50	1037510000	1037880000
4	11.43	0.450	50	1037520000	1037890000
5	15.24	0.600	50	1037530000	1037910000
6	19.05	0.750	50	1037540000	1037920000
7	22.86	0.900	50	1037550000	1037930000
8	26.67	1.050	50	1037560000	1921620000
9	30.48	1.200	50	1037570000	1037940000
10	34.29	1.350	50	1037580000	1037950000
11	38.10	1.500	50	1037590000	1037960000
12	41.91	1.650	50	1037610000	1037970000
13	45.72	1.800	50	1037620000	1037980000
14	49.53	1.950	50	1037630000	1037990000
15	53.34	2.100	50	1037640000	1038010000
16	57.15	2.250	50	1037650000	1038020000

SC 3.81/..../270F



Dimensioned drawing



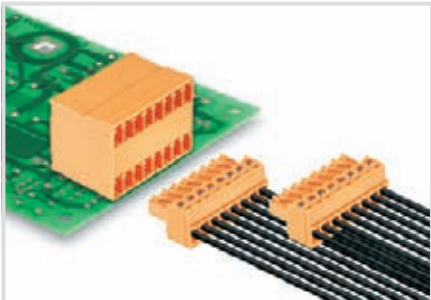
Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				orange	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1038040000	1038410000
3	7.62	0.300	50	1038050000	1038420000
4	11.43	0.450	50	1038060000	1038430000
5	15.24	0.600	50	1038070000	1038440000
6	19.05	0.750	50	1038080000	1038450000
7	22.86	0.900	50	1038090000	1038460000
8	26.67	1.050	50	1038110000	1038470000
9	30.48	1.200	50	1038130000	1038480000
10	34.29	1.350	50	1038140000	1038490000
11	38.10	1.500	50	1038150000	1038510000
12	41.91	1.650	50	1038160000	1038520000
13	45.72	1.800	50	1038170000	1038530000
14	49.53	1.950	50	1038180000	1038540000
15	53.34	2.100	50	1038190000	1038550000
16	57.15	2.250	50	1038210000	1038560000

Connectors in 3.81 mm pitch

Series BC/SC 3.81

SCD 3.81/.. /90



Double-level male header for wave soldering.

- Outlet direction: 90°
- Connections at the same level with access that is flush over the front of the board.
- Available in closed (G) version and with screw flange (F).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)	B C D			
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG			
CSA (Use Group)	B C D			
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG	-	-	
General data				
Type of insulation material		PA GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

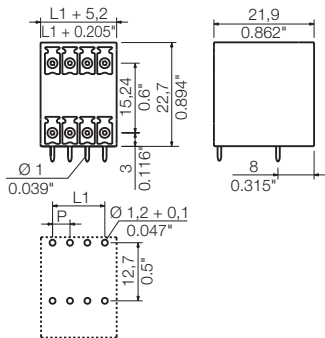
Note:

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

SCD 3.81/.. /90G



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
SC-SMT 3.81 KO GR	1968900000

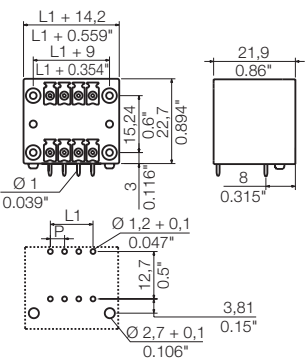
Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				orange	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1972790000	1973100000
6	7.62	0.300	50	1972800000	1973110000
8	11.43	0.450	50	1972810000	1973120000
10	15.24	0.600	50	1972820000	1973130000
12	19.05	0.750	50	1972830000	1973140000
14	22.86	0.900	50	1972840000	1973150000
16	26.67	1.050	50	1972850000	1973160000
18	30.48	1.200	50	1972860000	1973170000
20	34.29	1.350	50	1972870000	1973180000
22	38.10	1.500	50	1972880000	1973200000
24	41.91	1.650	50	1972890000	1973210000
26	45.72	1.800	20	1972900000	1973220000
28	49.53	1.950	20	1972910000	1973230000
30	53.34	2.100	20	1972920000	1973240000
32	57.15	2.250	20	1972930000	1973250000

SCD 3.81/.. /90F



Dimensioned drawing



Ordering data

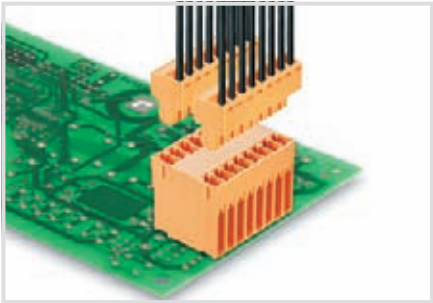
Solder pin length			3.2 mm	3.2 mm	
Colour			orange	black	
Pitch			3.81 mm		
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1973260000	1973580000
6	7.62	0.300	50	1973270000	1973590000
8	11.43	0.450	50	1973280000	1973600000
10	15.24	0.600	50	1973290000	1973610000
12	19.05	0.750	50	1973300000	1973620000
14	22.86	0.900	50	1973310000	1973630000
16	26.67	1.050	50	1973320000	1973640000
18	30.48	1.200	50	1973330000	1973650000
20	34.29	1.350	50	1973340000	1973660000
22	38.10	1.500	50	1973350000	1973670000
24	41.91	1.650	50	1973360000	1973680000
26	45.72	1.800	20	1973370000	1973690000
28	49.53	1.950	20	1973380000	1973700000
30	53.34	2.100	20	1973390000	1973710000
32	57.15	2.250	20	1973400000	1973720000



Connectors in 3.81 mm pitch

Series BC/SC 3.81

SCD 3.81/..../180



Double-level male header for wave soldering.

- Outlet direction: 180°
- Available in closed (G) version and with screw flange (F).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
CSA (Use Group)		B	C	D
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

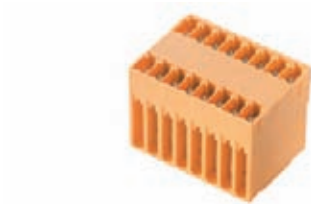
Product data

IEC: 320 V / 17.5
UL: 300 V / 10 A

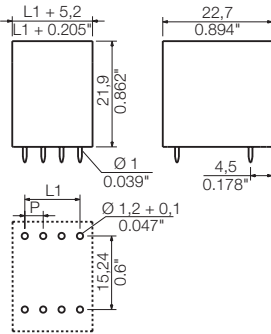
For additional articles and information, refer to catalog.weidmueller.com

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

SCD 3.81/..../180G



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	SC-SMT 3.81 KO GR	1968900000
Mounting screw		
	PTSC KA 22X4.5	1610740000

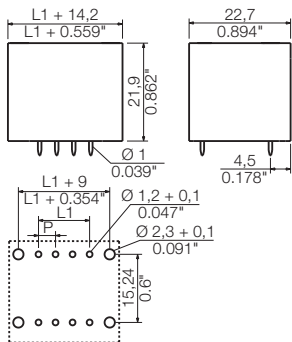
Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				orange	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1029920000	1030260000
6	7.62	0.300	50	1029940000	1030270000
8	11.43	0.450	50	1029950000	1030280000
10	15.24	0.600	50	1029960000	1030290000
12	19.05	0.750	50	1029970000	1030310000
14	22.86	0.900	50	1029980000	1030320000
16	26.67	1.050	50	1029990000	1030340000
18	30.48	1.200	50	1030010000	1030350000
20	34.29	1.350	50	1030020000	1030360000
22	38.10	1.500	50	1030030000	1030370000
24	41.91	1.650	50	1030040000	1030380000
26	45.72	1.800	20	1030050000	1030390000
28	49.53	1.950	20	1030060000	1030410000
30	53.34	2.100	20	1030070000	1030420000
32	57.15	2.250	20	1030080000	1030430000

SCD 3.81/.. /180F



Dimensioned drawing



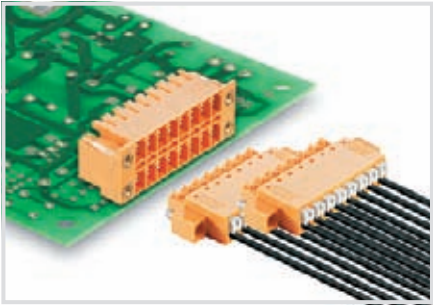
Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				orange	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1030440000	1030780000
6	7.62	0.300	50	1030450000	1030790000
8	11.43	0.450	50	1030460000	1030810000
10	15.24	0.600	50	1030470000	1030820000
12	19.05	0.750	50	1030480000	1030830000
14	22.86	0.900	50	1030490000	1030840000
16	26.67	1.050	50	1030510000	1030850000
18	30.48	1.200	50	1030520000	1030860000
20	34.29	1.350	50	1030530000	1030870000
22	38.10	1.500	50	1030540000	1030880000
24	41.91	1.650	50	1030550000	1030890000
26	45.72	1.800	20	1030560000	1030910000
28	49.53	1.950	20	1030570000	1030920000
30	53.34	2.100	20	1030580000	1030930000
32	57.15	2.250	20	1030590000	1030940000

Connectors in 3.81 mm pitch

Series BC/SC 3.81

SCDN 3.81/.. /90



Compact double-level male header for wave soldering.

- For use with BCF 3.81 (PUSH IN) plugs.
- Orientation: 90°
- Designed for front panel applications.
- Available in closed (G) version or with screw flange (F).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

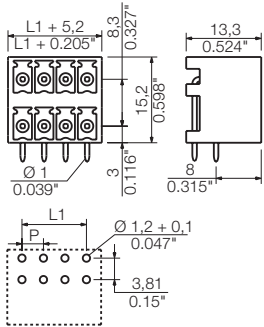
Note:

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

SCDN 3.81/.. /90G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)	B	C	D	
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG			
CSA (Use Group)	B	C	D	
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG	-	-	
General data				
Type of insulation material		PA GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	SC-SMT 3.81 KO GR	1968900000

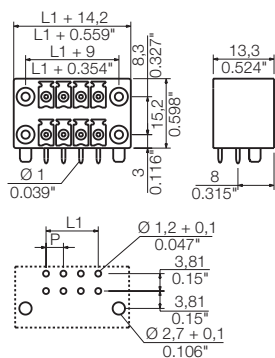
Ordering data

Solder pin length		3.2 mm	3.2 mm
Colour		orange	black
Pitch		3.81 mm	
Pol.	L1 (inch)	Qty.	Order No.
4	3.81 0.150	50	1040410000 1040790000
6	7.62 0.300	50	1040420000 1040810000
8	11.43 0.450	50	1040430000 1040820000
10	15.24 0.600	50	1040440000 1040830000
12	19.05 0.750	50	1040450000 1040840000
14	22.86 0.900	50	1040460000 1040850000
16	26.67 1.050	50	1040470000 1040860000
18	30.48 1.200	50	1040490000 1040870000
20	34.29 1.350	50	1040510000 1040890000
22	38.10 1.500	50	1040520000 1040900000
24	41.91 1.650	50	1040530000 1040910000
26	45.72 1.800	20	1040540000 1040920000
28	49.53 1.950	20	1040550000 1040930000
30	53.34 2.100	20	1040560000 1040940000
32	57.15 2.250	20	1040570000 1040950000

SCDN 3.81/.../90F



Dimensioned drawing



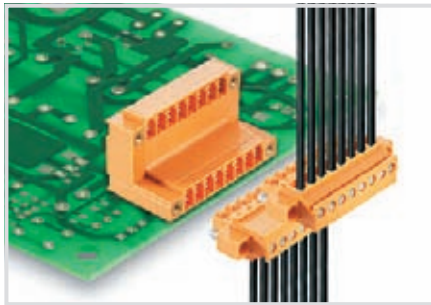
Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				orange	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1040960000	1041290000
6	7.62	0.300	50	1040970000	1041310000
8	11.43	0.450	50	1040980000	1041320000
10	15.24	0.600	50	1040990000	1041330000
12	19.05	0.750	50	1041000000	1041340000
14	22.86	0.900	50	1041010000	1041350000
16	26.67	1.050	50	1041020000	1041360000
18	30.48	1.200	50	1041030000	1041370000
20	34.29	1.350	50	1041040000	1041380000
22	38.10	1.500	50	1041050000	1041390000
24	41.91	1.650	50	1041060000	1041430000
26	45.72	1.800	20	1041070000	1041450000
28	49.53	1.950	20	1041080000	1041460000
30	53.34	2.100	20	1041090000	1041470000
32	57.15	2.250	20	1041110000	1041480000



Connectors in 3.81 mm pitch Series BC/SC 3.81

SCDV 3.81/..../90



Double level male header for wave soldering.

- Orientation: 90°
- Connections at two offset levels with open access to each row.
- Available in closed (G) version or with screw flange (F).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)	B C D			
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG			
CSA (Use Group)	B C D			
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG	-	-	
General data				
Type of insulation material		PA GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Product data

IEC: 320 V / 17.5
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

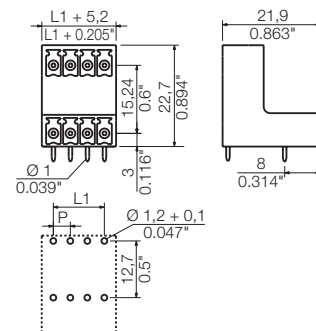
Note:

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

SCDV 3.81/..../90G



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
SC-SMT 3.81 KO GR	1968900000

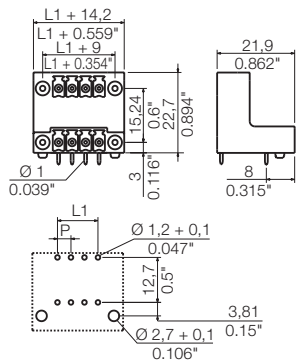
Ordering data

Solder pin length			3.2 mm	3.2 mm	
Colour			orange	black	
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1032090000	1032430000
6	7.62	0.300	50	1032110000	1032440000
8	11.43	0.450	50	1032120000	1032450000
10	15.24	0.600	50	1032130000	1032460000
12	19.05	0.750	50	1032140000	1032470000
14	22.86	0.900	50	1032150000	1032480000
16	26.67	1.050	50	1032160000	1032490000
18	30.48	1.200	50	1032170000	1032500000
20	34.29	1.350	50	1032190000	1032510000
22	38.10	1.500	50	1032200000	1032520000
24	41.91	1.650	50	1032210000	1032530000
26	45.72	1.800	20	1032220000	1032540000
28	49.53	1.950	20	1032230000	1032550000
30	53.34	2.100	20	1032240000	1032560000
32	57.15	2.250	20	1032250000	1032570000

SCDV 3.81/./90F



Dimensioned drawing



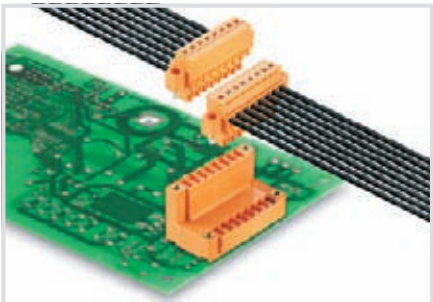
Ordering data

Solder pin length			3.2 mm	3.2 mm	
Colour			orange	black	
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1032580000	1032920000
6	7.62	0.300	50	1032590000	1032930000
8	11.43	0.450	50	1032600000	1032940000
10	15.24	0.600	50	1032610000	1032950000
12	19.05	0.750	50	1032620000	1032960000
14	22.86	0.900	50	1032630000	1032970000
16	26.67	1.050	50	1032640000	1032990000
18	30.48	1.200	50	1032650000	1033010000
20	34.29	1.350	50	1032660000	1033020000
22	38.10	1.500	50	1032670000	1033030000
24	41.91	1.650	50	1032680000	1033040000
26	45.72	1.800	20	1032690000	1033050000
28	49.53	1.950	20	1032710000	1033060000
30	53.34	2.100	20	1032720000	1033070000
32	57.15	2.250	20	1032730000	1033090000

Connectors in 3.81 mm pitch

Series BC/SC 3.81

SCDV 3.81/..../180



Double-level male header for wave soldering.

- Orientation: 180°.
- Connections at two offset levels with open access to each row.
- Available in closed (G) version or with screw flange (F).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm²			
Stranded H07 V-R				
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	A	17.5	17	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG	-		
CSA (Use Group)		B	C	D
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG	-		
General data				
Type of insulation material		PA GF		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Product data

IEC: 320 V / 17.5
UL: 300 V / 10 A

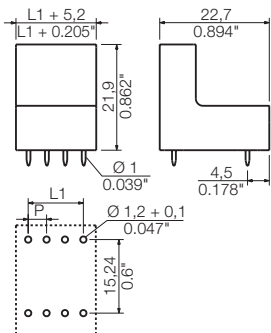
For additional articles and information, refer to catalog.weidmueller.com

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

SCDV 3.81/..../180G



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	SC-SMT 3.81 KO GR	1968900000
Mounting screw		
	PTSC KA 22X4.5	1610740000

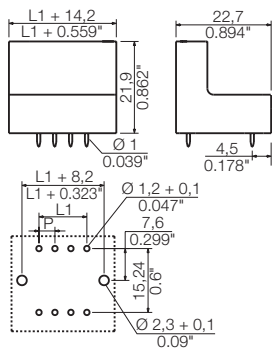
Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				orange	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1034470000	1034820000
6	7.62	0.300	50	1034490000	1034830000
8	11.43	0.450	50	1034510000	1034840000
10	15.24	0.600	50	1034520000	1034850000
12	19.05	0.750	50	1034530000	1034860000
14	22.86	0.900	50	1034540000	1034870000
16	26.67	1.050	50	1034550000	1034880000
18	30.48	1.200	50	1034560000	1034890000
20	34.29	1.350	50	1034570000	1034910000
22	38.10	1.500	50	1034580000	1034920000
24	41.91	1.650	50	1034590000	1034930000
26	45.72	1.800	20	1034610000	1034940000
28	49.53	1.950	20	1034620000	1034950000
30	53.34	2.100	20	1034630000	1034960000
32	57.15	2.250	20	1034640000	1034970000

SCDV 3.81/..../180F



Dimensioned drawing



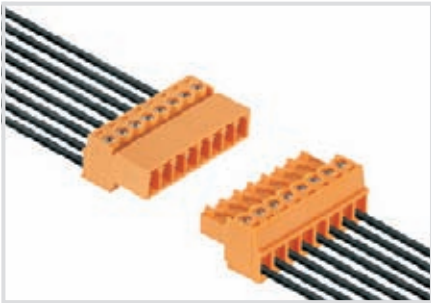
Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				orange	black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1034980000	1035310000
6	7.62	0.300	50	1034990000	1035320000
8	11.43	0.450	50	1035010000	1035330000
10	15.24	0.600	50	1035020000	1035340000
12	19.05	0.750	50	1035030000	1035350000
14	22.86	0.900	50	1035040000	1035360000
16	26.67	1.050	50	1035050000	1035370000
18	30.48	1.200	50	1035060000	1035380000
20	34.29	1.350	50	1035070000	1035390000
22	38.10	1.500	50	1035080000	1035410000
24	41.91	1.650	50	1035090000	1035420000
26	45.72	1.800	20	1035110000	1035430000
28	49.53	1.950	20	1035120000	1035440000
30	53.34	2.100	20	1035130000	1035450000
32	57.15	2.250	20	1035140000	1035460000

Connectors in 3.81 mm pitch

Series BC/SC 3.81

SCZ 3.81/./ / 180



Inverted male plug with screw connection:

- Wire-to-wire connection with the BCZ female plug
- Board-to-wire connection with the BCL-SMT female header.
- Available in closed (G) version, screw flange (F), inverted flange (FI) and with lock and release lever (LR).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 16

For additional articles and information, refer to catalog.weidmueller.com

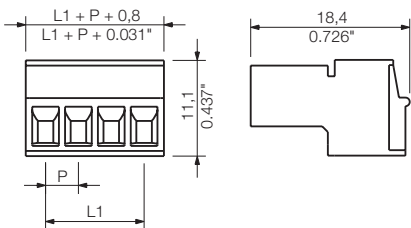
Note:

- 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 with plastic collar to DIN 46228/4
- 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.

SCZ 3.81/./ /180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm²	0.08...1.5	
Solid core H05(07) V-U	mm²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm²	0.2...1.5	
Flexible with ferrule	mm²	0.2...1.5	
Ferrule with plastic collar	mm²	0.2...1.5	
Stripping length	mm	7	
Screwdriver blade	mm	0.4 x 2.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.2...0.25	
Rated current, max.	A	17.5	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm²	1	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	160	160 320
Rated impulse voltage	kV	2.5	2.5 2.5
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	28-16	
CSA (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	28-16	
General data			
Type of insulation material		PA GF	
Flammability class UL 94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

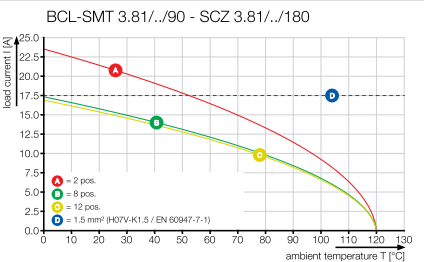
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
SC-SMT 3.81 KO GR	1968900000
Screwdriver	
SD 0,4x2,5x75	9009030000
SDI 0,4x2,5x75	9008370000

Ordering data

Solder pin length					
Colour		orange	black		
Pitch	3.81 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1969520000	1970010000
3	7.62	0.300	50	1969540000	1970020000
4	11.43	0.450	50	1969560000	1970030000
5	15.24	0.600	50	1969570000	1970050000
6	19.05	0.750	50	1969580000	1970060000
7	22.86	0.900	50	1969590000	1970070000
8	26.67	1.050	50	1969610000	1970080000
9	30.48	1.200	50	1969630000	1970090000
10	34.29	1.350	50	1969640000	1970100000
11	38.10	1.500	50	1969660000	1970110000
12	41.91	1.650	50	1969670000	1970120000

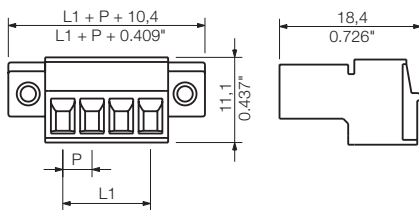
Representative derating curve



SCZ 3.81../180F



Dimensioned drawing



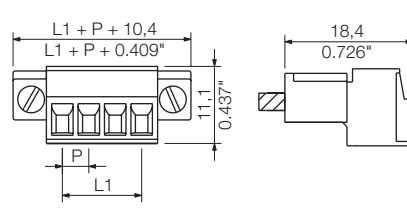
Ordering data

Solder pin length						
Colour				orange	black	
Pitch 3.81 mm						
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
2	3.81	0.150	50	1970910000	1971290000	
3	7.62	0.300	50	1970920000	1971310000	
4	11.43	0.450	50	1970930000	1971320000	
5	15.24	0.600	50	1970940000	1971340000	
6	19.05	0.750	50	1970960000	1971350000	
7	22.86	0.900	50	1970970000	1971360000	
8	26.67	1.050	50	1970980000	1971370000	
9	30.48	1.200	50	1970990000	1971400000	
10	34.29	1.350	50	1971000000	1971410000	
11	38.10	1.500	50	1971010000	1971510000	
12	41.91	1.650	50	1971020000	1971520000	

SCZ 3.81../180FI



Dimensioned drawing



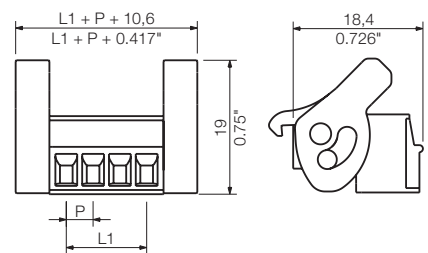
Ordering data

Solder pin length					
Colour			orange		black
Pitch		3.81 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1970260000	1970700000
3	7.62	0.300	50	1970270000	1970710000
4	11.43	0.450	50	1970310000	1970720000
5	15.24	0.600	50	1970320000	1970740000
6	19.05	0.750	50	1970340000	1970760000
7	22.86	0.900	50	1970350000	1970770000
8	26.67	1.050	50	1970360000	1970780000
9	30.48	1.200	50	1970390000	1970790000
10	34.29	1.350	50	1970410000	1970800000
11	38.10	1.500	50	1970420000	1970810000
12	41.91	1.650	50	1970430000	1970830000

SCZ 3.81../180LR



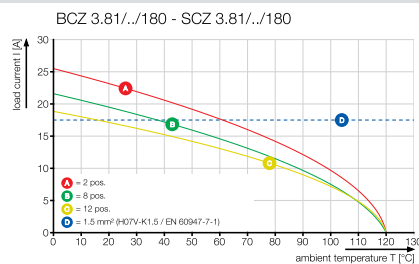
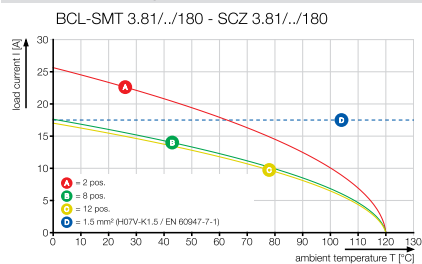
Dimensioned drawing



Ordering data

Solder pin length					
Colour		orange		black	
Pitch		3.81 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1971580000	1971980000
3	7.62	0.300	50	1971600000	1971990000
4	11.43	0.450	50	1971610000	1972010000
5	15.24	0.600	50	1971630000	1972020000
6	19.05	0.750	50	1971640000	1972040000
7	22.86	0.900	50	1971660000	1972050000
8	26.67	1.050	50	1971670000	1972060000
9	30.48	1.200	50	1971680000	1972080000
10	34.29	1.350	50	1971690000	1972090000
11	38.10	1.500	50	1971700000	1972110000
12	41.91	1.650	50	1971710000	1972120000

Additional derating curves



Connectors in 3.81 mm pitch

Series BC/SC 3.81

SCZ 3.81/././180 ZE



Inverted male plug with screw connection and strain relief for the connected cable.

- Wire-to-wire connection with female plugs.
- Board-to-wire connection with BCL-SMT female header.
- Available in closed (G) version, screw flange (F), inverted flange (FI) and with lock and release lever (LR).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 16

For additional articles and information, refer to catalog.weidmueller.com

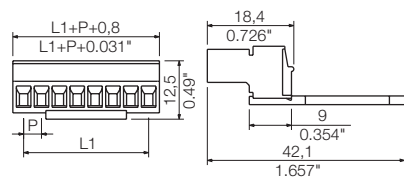
Note:

- 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 with plastic collar to DIN 46228/4
- 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.

SCZ 3.81/././180GZE



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.08...1.5	
Solid core H05(07) V-U	mm²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.2...1.5	
Ferrule with plastic collar	mm ²	0.2...1.5	
Stripping length	mm	7	
Screwdriver blade	mm	0.4 x 2.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.2...0.25	
Rated current, max.	A	17.5	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	160	160 320
Rated impulse voltage	kV	2.5	2.5 2.5
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	28-16	
CSA (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	28-16	
General data			
Type of insulation material		PA GF	
Flammability class UL 94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

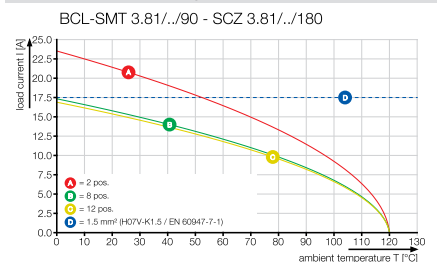
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
SC-SMT 3.81 KO GR	1968900000
Screwdriver	
SD 0,4x2,5x75	9009030000
SDI 0,4x2,5x75	9008370000

Ordering data

Solder pin length					
Colour		orange	black		
Pitch	3.81 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	11.43	0.450	50	1237000000	1236990000
5	15.24	0.600	50	1237010000	1071710000
6	19.05	0.750	50	1237020000	1071720000
7	22.86	0.900	50	1237030000	1071730000
8	26.67	1.050	50	1237040000	1071740000
9	30.48	1.200	50	1237070000	1071750000
10	34.29	1.350	50	1237080000	1071760000
11	38.10	1.500	50	1237090000	1071770000
12	41.91	1.650	50	1237100000	1071780000

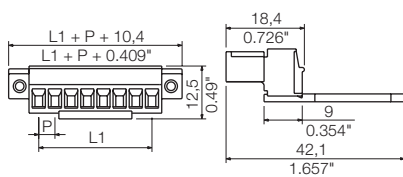
Representative derating curve



SCZ 3.81/./180FZE



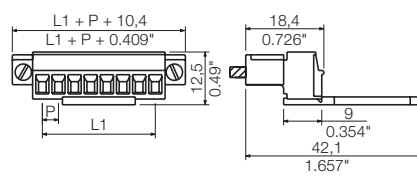
Dimensioned drawing



SCZ 3.81/./180FIZE



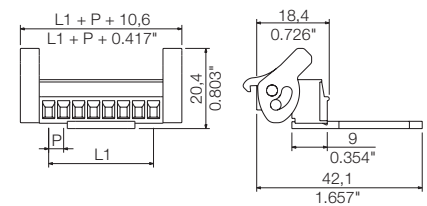
Dimensioned drawing



SCZ 3.81/./180LRZE



Dimensioned drawing



Ordering data

Solder pin length						
Colour			orange		black	
Pitch		3.81 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
4	11.43	0.450	50	1237120000	1237110000	
5	15.24	0.600	50	1237130000	1071790000	
6	19.05	0.750	50	1237140000	1071810000	
7	22.86	0.900	50	1237170000	1071820000	
8	26.67	1.050	50	1237180000	1071830000	
9	30.48	1.200	50	1237190000	1071840000	
10	34.29	1.350	50	1237200000	1071850000	
11	38.10	1.500	50	1237210000	1071860000	
12	41.91	1.650	50	1237220000	1071870000	

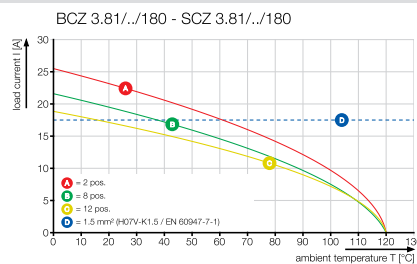
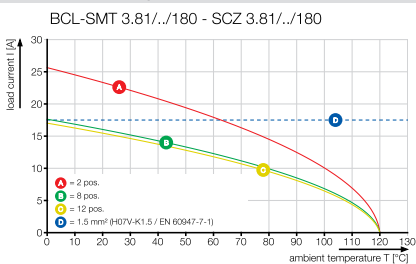
Ordering data

Solder pin length						
Colour			orange		black	
Pitch		3.81 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
4	11.43	0.450	50	1237550000	1237440000	
5	15.24	0.600	50	1237560000	1237450000	
6	19.05	0.750	50	1237570000	1237470000	
7	22.86	0.900	50	1237580000	1237480000	
8	26.67	1.050	50	1237590000	1237490000	
9	30.48	1.200	50	1237610000	1237510000	
10	34.29	1.350	50	1237620000	1237520000	
11	38.10	1.500	50	1237630000	1237530000	
12	41.91	1.650	50	1237640000	1237540000	

Ordering data

Solder pin length						
Colour			orange		black	
Pitch		3.81 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
4	11.43	0.450	50	1237340000	1237230000	
5	15.24	0.600	50	1237350000	1237240000	
6	19.05	0.750	50	1237370000	1237270000	
7	22.86	0.900	50	1237380000	1237280000	
8	26.67	1.050	50	1237390000	1237290000	
9	30.48	1.200	50	1237400000	1237300000	
10	34.29	1.350	50	1237410000	1237310000	
11	38.10	1.500	50	1237420000	1237320000	
12	41.91	1.650	50	1237430000	1237330000	

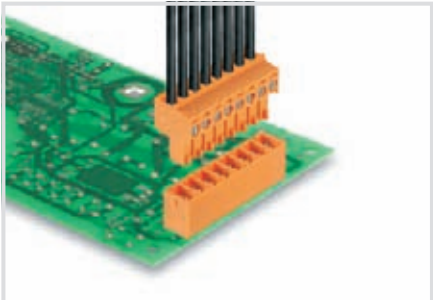
Additional derating curves



Connectors in 3.81 mm pitch

Series BC/SC 3.81

BCZ 3.81/./180



Female plug with screw connection. Wire outlet 180° (wire is straight on to the direction of plugging).

- Available in closed version, with screw flange (F) and lock and release-lever (LR).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 16

For additional articles and information, refer to catalog.weidmueller.com

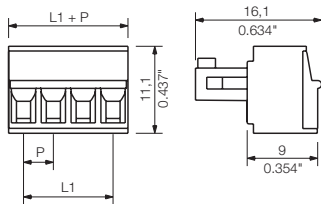
Note:

- 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 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- 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.

BCZ 3.81/./180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.08...1.5	
Solid core H05(07) V-U	mm²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.2...1.5	
Ferrule with plastic collar	mm ²	0.2...1.5	
Stripping length	mm	7	
Screwdriver blade	mm	0.4 x 2.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.2...0.25	
Rated current, max.	A	17.5	17
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	160	160 320
Rated impulse voltage	kV	2.5	2.5 2.5
UL / CUL (Use Group)		B C D	D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	28-16	
CSA (Use Group)		B C D	D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	28-16	
General data			
Type of insulation material		PA GF	
Flammability class UL 94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

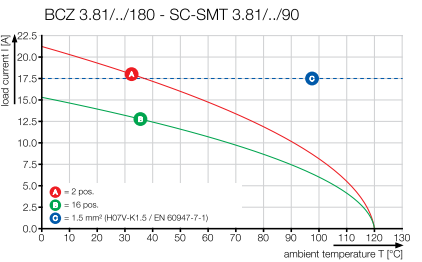
Note: Refer to the Accessories chapter for additional accessories.

Hood	Order No.
BCZ 3.81 AH03	1005280000
BCZ 3.81 AH04	1005290000
BCZ 3.81 AH05	1005300000
BCZ 3.81 AH06	1005310000
BCZ 3.81 AH07	1005320000
BCZ 3.81 AH08	1005330000
BCZ 3.81 AH09	1005340000
BCZ 3.81 AH10	1005350000
BCZ 3.81 AH12	1005370000
BCZ 3.81 AH13	1005380000
BCZ 3.81 AH14	1005390000
BCZ 3.81 AH15	1005400000
BCZ 3.81 AH16	1005410000
BCZ 3.81 AH17	1005420000
BCZ 3.81 AH18	1005430000
BCZ 3.81 AH19	1005440000
BCZ 3.81 AH20	1005450000
Screwdriver	
SD 0,4x2,5x75	9009030000
SDI 0,4x2,5x75	9008370000

Ordering data

Solder pin length					
Colour		orange	black		
Pitch	3.81 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1940730000	1792770000
3	7.62	0.300	50	1940740000	1792780000
4	11.43	0.450	50	1940750000	1792790000
5	15.24	0.600	50	1940760000	1792800000
6	19.05	0.750	50	1940770000	1792810000
7	22.86	0.900	50	1940780000	1871410000
8	26.67	1.050	50	1940790000	1792820000
9	30.48	1.200	50	1940800000	1871390000
10	34.29	1.350	50	1940810000	1792830000
11	38.10	1.500	50	1940820000	1899400000
12	41.91	1.650	50	1940830000	1792840000
13	45.72	1.800	50	1940840000	1899440000
14	49.53	1.950	50	1940850000	1899480000
15	53.34	2.100	50	1940860000	1899520000
16	57.15	2.250	50	1940870000	1792850000
17	60.96	2.550	50	1940890000	1940970000
18	64.77	2.550	50	1940900000	1940980000
19	68.58	2.700	50	1940910000	1940990000
20	72.39	2.850	50	1940920000	1941000000

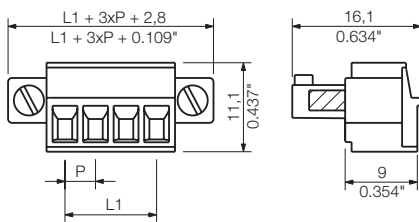
Representative derating curve



BCZ 3.81/..../180F



Dimensioned drawing



Ordering data

Solder pin length

Colour orange black

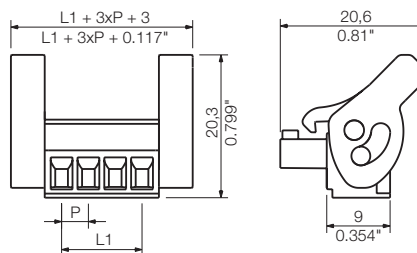
Pitch 3.81 mm

Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1941010000	1792950000
3	7.62	0.300	50	1941020000	1792960000
4	11.43	0.450	50	1941030000	1792970000
5	15.24	0.600	50	1941040000	1792980000
6	19.05	0.750	50	1941050000	1792990000
7	22.86	0.900	50	1941060000	1837020000
8	26.67	1.050	50	1941070000	1793000000
9	30.48	1.200	50	1941080000	1899530000
10	34.29	1.350	50	1941090000	1793010000
11	38.10	1.500	50	1941100000	1899550000
12	41.91	1.650	50	1941110000	1793020000
13	45.72	1.800	50	1941120000	1899570000
14	49.53	1.950	50	1941130000	1899590000
15	53.34	2.100	50	1941140000	1899610000
16	57.15	2.250	50	1941150000	1793030000
17	60.96	2.400	50	1941160000	1941360000
18	64.77	2.550	50	1941170000	1941370000
19	68.58	2.700	50	1941180000	1941380000
20	72.39	2.850	50	1941190000	1941390000

BCZ 3.81/..../180LR



Dimensioned drawing



Ordering data

Solder pin length

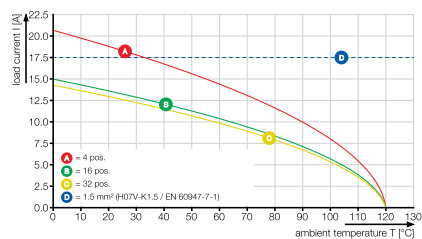
Colour orange black

Pitch 3.81 mm

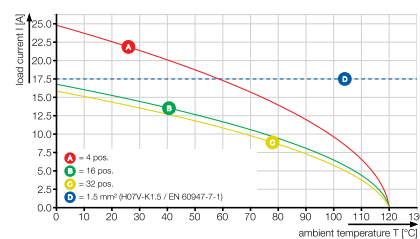
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1941400000	1941780000
3	7.62	0.300	50	1941410000	1941790000
4	11.43	0.450	50	1941420000	1941800000
5	15.24	0.600	50	1941430000	1941810000
6	19.05	0.750	50	1941440000	1941820000
7	22.86	0.900	50	1941450000	1941830000
8	26.67	1.050	50	1941460000	1941840000
9	30.48	1.200	50	1941470000	1941850000
10	34.29	1.350	50	1941480000	1941860000
11	38.10	1.500	50	1941490000	1941870000
12	41.91	1.650	50	1941500000	1941880000
13	45.72	1.800	50	1941510000	1941890000
14	49.53	1.950	50	1941520000	1941900000
15	53.34	2.100	50	1941530000	1941910000
16	57.15	2.250	50	1941540000	1941920000
17	60.96	2.400	50	1941550000	1941930000
18	64.77	2.550	50	1941560000	1941940000
19	68.58	2.700	50	1941570000	1941950000
20	72.39	2.850	50	1941580000	1941960000

Additional derating curves

BCZ 3.81/..../180 - SCDV-THR 3.81/..../90



BCZ 3.81/..../180 - SCDV-THR 3.81/..../180



Connectors in 3.81 mm pitch

Series BC/SC 3.81

BCZ 3.81/..../180 ZE



Female plug with screw connection and strain relief for the connected cable. Wire outlet 180° (wire is straight on to the direction of plugging).

- Available in closed version, with screw flange (F) and lock and release-lever (LR).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 16

For additional articles and information, refer to catalog.weidmueller.com

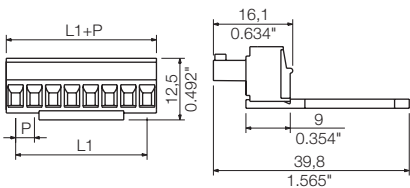
Note:

- 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 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- 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.

BCZ 3.81/..../180ZE



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm²	0.08...1.5	
Solid core H05(07) V-U	mm²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm²	0.2...1.5	
Flexible with ferrule	mm²	0.2...1.5	
Ferrule with plastic collar	mm²	0.2...1.5	
Stripping length	mm	7	
Screwdriver blade	mm		
According to norm		DIN 5264	
Tightening torque range	Nm	0.2...0.25	
Rated current, max.	A	17.5	17
At ambient temperature		20°C	40°C
For conductor cross-section	mm²	1	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	160	160 320
Rated impulse voltage	kV	2.5	2.5 2.5
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	28-16	
CSA (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	28-16	
General data			
Type of insulation material		PA GF	
Flammability class UL 94		V-0	
Contact base material		Copper alloy	
Material of contact surface			
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

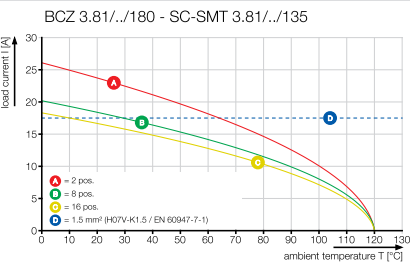
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SD 0,4x2,5x75	9009030000
SDI 0,4x2,5x75	9008370000

Ordering data

Solder pin length						
Colour				orange	black	
Pitch 3.81 mm						
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
5	15.24	0.600	50	1236270000	1071950000	
6	19.05	0.750	50	1236280000	1071960000	
7	22.86	0.900	50	1236290000	1071970000	
8	26.67	1.050	50	1236300000	1941970000	
9	30.48	1.200	50	1236320000	1071980000	
10	34.29	1.350	50	1236330000	1072010000	
11	38.10	1.500	50	1236340000	1072020000	
12	41.91	1.650	50	1236370000	1072030000	
13	45.72	1.800	50	1236380000	1072040000	
14	49.53	1.950	50	1236390000	1072050000	
15	53.34	2.100	50	1236400000	1072060000	
16	57.15	2.250	50	1236410000	1072070000	
17	60.96	2.400	50	1236420000	1072080000	
18	64.77	2.550	50	1236430000	1072090000	
19	68.58	2.700	50	1236440000	1072110000	
20	72.39	2.850	50	1236470000	1072120000	

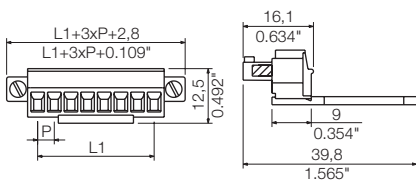
Representative derating curve



BCZ 3.81/..180FZE



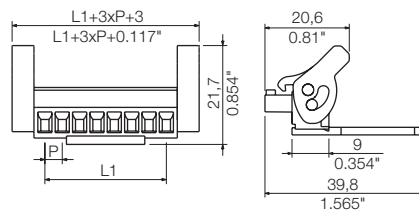
Dimensioned drawing



BCZ 3.81/..180LRZE



Dimensioned drawing



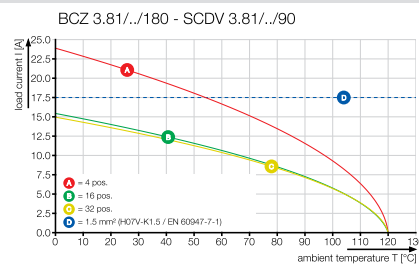
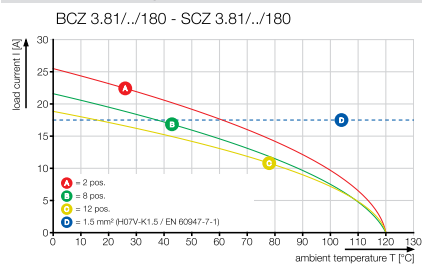
Ordering data

Solder pin length					
Colour		orange		black	
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
5	15.24	0.600	50	1236530000	1072130000
6	19.05	0.750	50	1236540000	1072140000
7	22.86	0.900	50	1236570000	1072150000
8	26.67	1.050	50	1236590000	1941980000
9	30.48	1.200	50	1236600000	1072160000
10	34.29	1.350	50	1236610000	1072170000
11	38.10	1.500	50	1236620000	1072180000
12	41.91	1.650	50	1236630000	1072190000
13	45.72	1.800	50	1236640000	1072200000
14	49.53	1.950	50	1236670000	1072230000
15	53.34	2.100	50	1236680000	1072240000
16	57.15	2.250	50	1236690000	1072250000
17	60.96	2.400	50	1236700000	1072260000
18	64.77	2.550	50	1236720000	1072270000
19	68.58	2.700	50	1236730000	1072280000
20	72.39	2.850	50	1236740000	1072290000

Ordering data

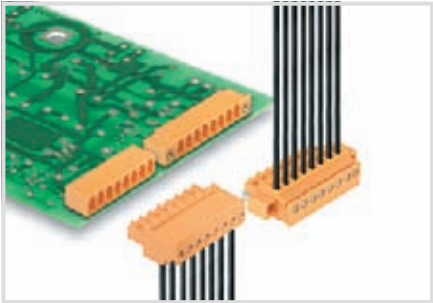
Solder pin length					
Colour		orange		black	
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
5	15.24	0.600	50	1236790000	1072310000
6	19.05	0.750	50	1236800000	1072320000
7	22.86	0.900	50	1236810000	1072330000
8	26.67	1.050	50	1236820000	1941990000
9	30.48	1.200	50	1236830000	1072340000
10	34.29	1.350	50	1236840000	1072350000
11	38.10	1.500	50	1236850000	1072360000
12	41.91	1.650	50	1236870000	1072370000
13	45.72	1.800	50	1236880000	1072380000
14	49.53	1.950	50	1236890000	1072390000
15	53.34	2.100	50	1236900000	1072450000
16	57.15	2.250	50	1236910000	1072460000
17	60.96	2.400	50	1236920000	1072470000
18	64.77	2.550	50	1236930000	1072480000
19	68.58	2.700	50	1236940000	1072490000
20	72.39	2.850	50	1236970000	1072510000

Additional derating curves



Connectors in 3.81 mm pitch Series BC/SC 3.81

BCZ 3.81/./90 & 270



Female plug with screw connection.
Wire outlet direction:

- 90° – wire perpendicular to plugging direction and above
- 270° – wire perpendicular to plugging direction and below
- Available in closed version and with screw flange (F).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.08...1.5	
Solid core H05(07) V-U	mm²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.2...1.5	
Ferrule with plastic collar	mm ²	0.2...1.5	
Stripping length	mm	7	
Screwdriver blade	mm	0.4 x 2.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.2...0.25	
Rated current, max.	A	17.5	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	160	160 320
Rated impulse voltage	kV	2.5	2.5 2.5
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	28-16	
CSA (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	28-16	
General data			
Type of insulation material		PA GF	
Flammability class UL 94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 16

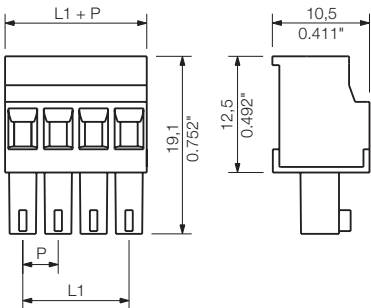
For additional articles and information, refer to catalog.weidmueller.com

- Note:**
- 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 46228/1
 - Wire end ferrule with plastic collar to DIN 46228/4
 - 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.

BCZ 3.81/./90



Dimensioned drawing



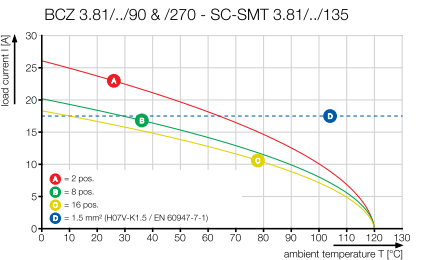
Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Screwdriver		Order No.
	SD 0,4x2,5x75	9009030000
	SDI 0,4x2,5x75	9008370000

Ordering data

Solder pin length						
Colour				orange	black	
Pitch 3.81 mm						
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
2	3.81	0.150	50	1939820000	1798500000	
3	7.62	0.300	50	1939830000	1798120000	
4	11.43	0.450	50	1939840000	1798550000	
5	15.24	0.600	50	1939860000	1798570000	
6	19.05	0.750	50	1939870000	1798590000	
7	22.86	0.900	50	1939880000	1858960000	
8	26.67	1.050	50	1939890000	1798130000	
9	30.48	1.200	50	1939900000	1871430000	
10	34.29	1.350	50	1939910000	1798610000	
11	38.10	1.500	50	1939920000	1899380000	
12	41.91	1.650	50	1939930000	1798630000	
13	45.72	1.800	50	1939940000	1899420000	
14	49.53	1.950	50	1939950000	1899460000	
15	53.34	2.100	50	1939960000	1899500000	
16	57.15	2.250	50	1939970000	1798660000	

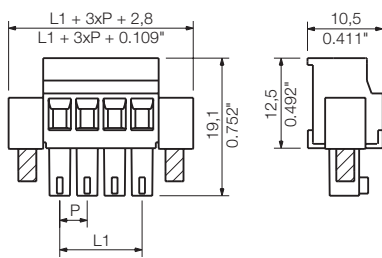
Representative derating curve



BCZ 3.81/./90F



Dimensioned drawing



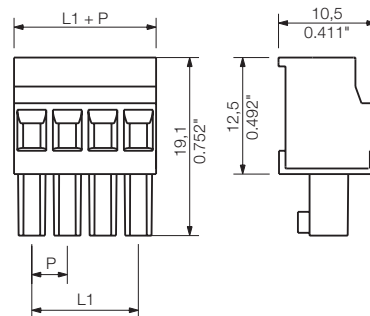
Ordering data

Solder pin length					
Colour			orange	black	
Pitch		3.81 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1939980000	1798780000
3	7.62	0.300	50	1939990000	1798140000
4	11.43	0.450	50	1940000000	1798790000
5	15.24	0.600	50	1940010000	1798800000
6	19.05	0.750	50	1940020000	1798810000
7	22.86	0.900	50	1940030000	1845690000
8	26.67	1.050	50	1940040000	1798150000
9	30.48	1.200	50	1940050000	1899540000
10	34.29	1.350	50	1940060000	1798820000
11	38.10	1.500	50	1940070000	1899560000
12	41.91	1.650	50	1940080000	1798830000
13	45.72	1.800	50	1940090000	1899580000
14	49.53	1.950	50	1940100000	1899600000
15	53.34	2.100	50	1940110000	1899620000
16	57.15	2.250	50	1940120000	1798840000

BCZ 3.81/./270



Dimensioned drawing



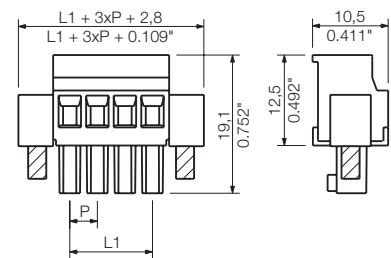
Ordering data

Solder pin length					
Colour		orange		black	
Pitch		3.81 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1940190000	1798940000
3	7.62	0.300	50	1940200000	1798160000
4	11.43	0.450	50	1940210000	1798950000
5	15.24	0.600	50	1940220000	1798960000
6	19.05	0.750	50	1940230000	1798970000
7	22.86	0.900	50	1940240000	1940400000
8	26.67	1.050	50	1940250000	1798170000
9	30.48	1.200	50	1940260000	1940410000
10	34.29	1.350	50	1940270000	1798980000
11	38.10	1.500	50	1940280000	1940420000
12	41.91	1.650	50	1940290000	1798990000
13	45.72	1.800	50	1940300000	1940430000
14	49.53	1.950	50	1940310000	1940440000
15	53.34	2.100	50	1940320000	1940450000
16	57.15	2.250	50	1940330000	1799000000

BCZ 3.81/./270F



Dimensioned drawing

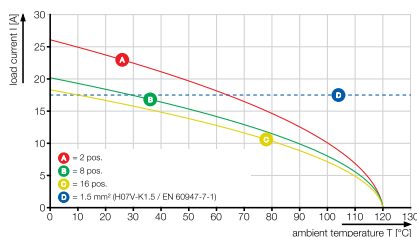


Ordering data

Solder pin length					
Colour			orange	black	
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1940460000	1799100000
3	7.62	0.300	50	1940470000	1798180000
4	11.43	0.450	50	1940480000	1799110000
5	15.24	0.600	50	1940490000	1799120000
6	19.05	0.750	50	1940500000	1799130000
7	22.86	0.900	50	1940510000	1940670000
8	26.67	1.050	50	1940520000	1798190000
9	30.48	1.200	50	1940530000	1940680000
10	34.29	1.350	50	1940540000	1799140000
11	38.10	1.500	50	1940550000	1940690000
12	41.91	1.650	50	1940560000	1799150000
13	45.72	1.800	50	1940570000	1940700000
14	49.53	1.950	50	1940580000	1940710000
15	53.34	2.100	50	1940590000	1940720000
16	57.15	2.250	50	1940600000	1799160000

Additional derating curves

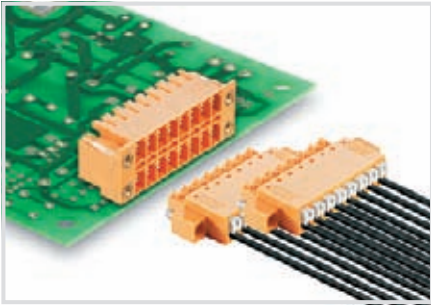
BCZ 3.81/./90 & /270 - SC 3.81/./135



Connectors in 3.81 mm pitch

Series BC/SC 3.81

BCF 3.81/././180



Female plug with PUSH IN wire connection.

- Simply insert the wire and it's ready.
- Integrated push-button for opening the terminal point
- High component density because of very low height, especially when combined with the compact double-level SCDN / SCDN-THR male header.
- Available in closed version, with screw flange (F) and lock an release-lever (LR).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A / 0.14 - 1.5 mm²
UL: 300 V / 10 A / AWG 24 - 16

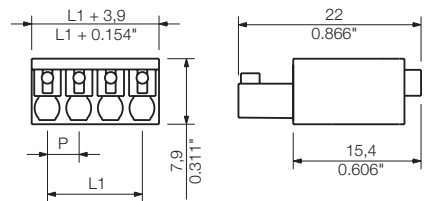
For additional articles and information, refer to catalog.weidmueller.com

- Note:**
- Additional colours on request
 - Gold-plated contact surfaces on request
 - We recommend crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for the larger wire cross-sections.
 - Rated current related to rated cross-section and min. No. of poles.
 - Wire end ferrule without plastic collar to DIN 46228/1
 - Wire end ferrule with plastic collar to DIN 46228/4
 - P on 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.

BCF 3.81/././180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.14...1.5	
Solid core H05(07) V-U	mm²	0.14...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.14...1.5	
Flexible with ferrule	mm ²	0.2...1.5	
Ferrule with plastic collar	mm ²	0.2...1.5	
Stripping length	mm	8	
Screwdriver blade	mm	0.4 x 2.5	
According to norm		DIN 5264	
Tightening torque range	Nm		
Rated current, max.	A	17.5	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1	
Overvoltage category		III	III
Pollution severity		3	2
Rated voltage	V	160	160
Rated impulse voltage	kV	2.5	2.5
UL / CUL (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	24-16	
CSA (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	24-16	
General data			
Type of insulation material		PA 66 GF 30	
Flammability class UL 94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

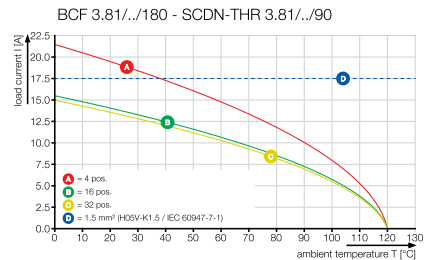
Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Screwdriver		Order No.
	SD 0,4x2,5x75	9009030000
	SDI 0,4x2,5x75	9008370000
Crimping tool		
	PZ 1.5	9005990000
	PZ 6/5	9011460000

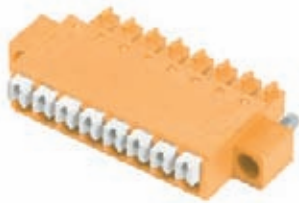
Ordering data

Solder pin length						
Colour				orange	black	
Pitch		3.81 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
2	3.81	0.150	50	1969090000	1969890000	
3	7.62	0.300	50	1969100000	1969920000	
4	11.43	0.450	50	1969110000	1969950000	
5	15.24	0.600	50	1969120000	1969970000	
6	19.05	0.750	50	1969130000	1969980000	
7	22.86	0.900	50	1969140000	1969990000	
8	26.67	1.050	50	1969150000	1970000000	
9	30.48	1.200	50	1969160000	1970040000	
10	34.29	1.350	50	1969170000	1970130000	
11	38.10	1.500	50	1969180000	1970170000	
12	41.91	1.650	50	1969190000	1970190000	
13	45.72	1.800	50	1969200000	1970200000	
14	49.53	1.950	50	1969210000	1970210000	
15	53.34	2.100	50	1969220000	1970220000	
16	57.15	2.250	50	1969230000	1970230000	
17	60.96	2.400	50	1969240000	1970240000	
18	64.77	2.550	50	1969250000	1970250000	

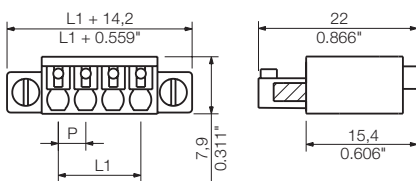
Representative derating curve



BCF 3.81/././180F



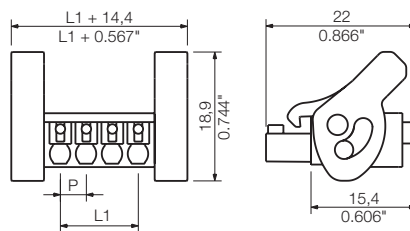
Dimensioned drawing



BCF 3.81/././180LR



Dimensioned drawing



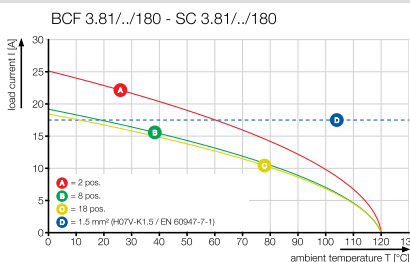
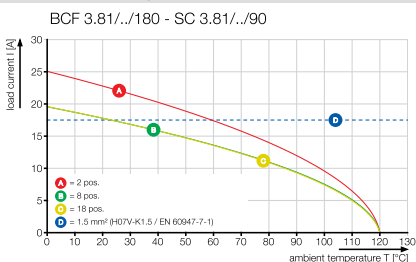
Ordering data

Solder pin length					
Colour			orange	black	
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1970300000	1971500000
3	7.62	0.300	50	1970330000	1971570000
4	11.43	0.450	50	1970370000	1971590000
5	15.24	0.600	50	1970380000	1971620000
6	19.05	0.750	50	1970400000	1971650000
7	22.86	0.900	50	1970440000	1971780000
8	26.67	1.050	50	1970550000	1971830000
9	30.48	1.200	50	1970570000	1971850000
10	34.29	1.350	50	1970580000	1971870000
11	38.10	1.500	50	1970620000	1971900000
12	41.91	1.650	50	1970650000	1971940000
13	45.72	1.800	50	1970690000	1971970000
14	49.53	1.950	50	1970730000	1972000000
15	53.34	2.100	50	1970750000	1972030000
16	57.15	2.250	50	1970820000	1972070000
17	60.96	2.400	50	1970850000	1972100000
18	64.77	2.550	50	1970890000	1972170000

Ordering data

Solder pin length					
Colour		orange		black	
Pitch		3.81 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1972200000	1972600000
3	7.62	0.300	50	1972210000	1972610000
4	11.43	0.450	50	1972220000	1972620000
5	15.24	0.600	50	1972230000	1972630000
6	19.05	0.750	50	1972240000	1972640000
7	22.86	0.900	50	1972250000	1972650000
8	26.67	1.050	50	1972260000	1972660000
9	30.48	1.200	50	1972270000	1972670000
10	34.29	1.350	50	1972280000	1972680000
11	38.10	1.500	50	1972290000	1972690000
12	41.91	1.650	50	1972300000	1972700000
13	45.72	1.800	50	1972310000	1972710000
14	49.53	1.950	50	1972320000	1972720000
15	53.34	2.100	50	1972330000	1972730000
16	57.15	2.250	50	1972340000	1972740000
17	60.96	2.400	50	1972350000	1972750000
18	64.77	2.550	50	1972360000	1972760000

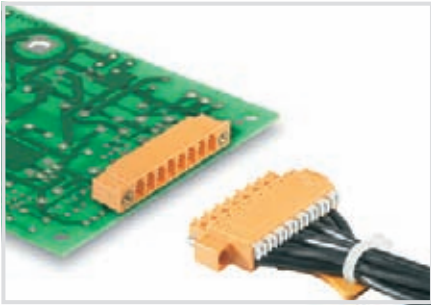
Additional derating curves



Connectors in 3.81 mm pitch

Series BC/SC 3.81

BCF 3.81../180 ZE



Female plug with strain relief (ZE) for the connected cable.

- PUSH IN wire connection method
- Simply insert the wire and attach the strain relief mechanism
- Available in closed version with screw flange (F) and lock an release-lever (LR).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A / 0.14 - 1.5 mm²
UL: 300 V / 10 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

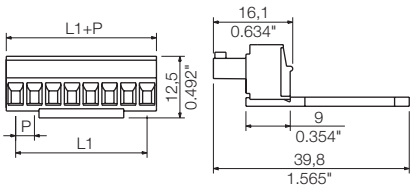
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- We recommend crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for the larger wire cross-sections.
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on 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.

BCF 3.81../180ZE



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.14...1.5		
Solid core H05(07) V-U	mm²	0.14...1.5		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.14...1.5		
Flexible with ferrule	mm²	0.2...1.5		
Ferrule with plastic collar	mm²	0.2...1.5		
Stripping length	mm	8		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	A	17.5	17.5	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	160	160	320
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG	24-16		
CSA (Use Group)		B	C	D
Rated voltage	V	300	300	
Rated current	A	10	10	
AWG conductor	AWG	24-16		
General data				
Type of insulation material		PA 66 GF 30		
Flammability class UL 94		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

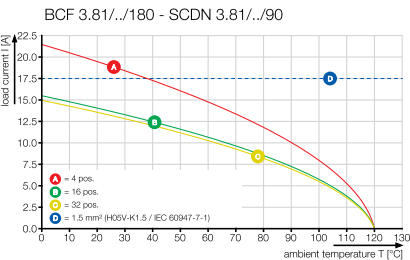
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SD 0,4x2,5x75	9009030000
SDI 0,4x2,5x75	9008370000
Crimping tool	
PZ 1.5	9005990000
PZ 6/5	9011460000

Ordering data

Solder pin length					
Colour			orange		black
Pitch		3.81 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	11.43	0.450	50	1231510000	1231670000
5	15.24	0.600	50	1235790000	1231680000
6	19.05	0.750	50	1235800000	1231690000
7	22.86	0.900	50	1235810000	1231710000
8	26.67	1.050	50	1235820000	1231720000
9	30.48	1.200	50	1235830000	1231730000
10	34.29	1.350	50	1235840000	1231740000
11	38.10	1.500	50	1235870000	1231750000
12	41.91	1.650	50	1235880000	1231760000
13	45.72	1.800	50	1235890000	1231770000
14	49.53	1.950	50	1235900000	1231780000
15	53.34	2.100	50	1235910000	1231790000
16	57.12	2.250	50	1235920000	1231810000
17	60.96	2.400	50	1235930000	1231820000
18	64.77	2.550	50	1235940000	1231830000

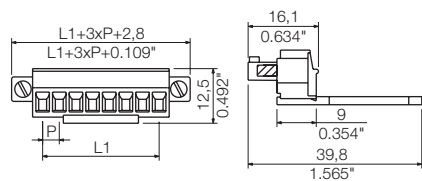
Representative derating curve



BCF 3.81/./180FZE



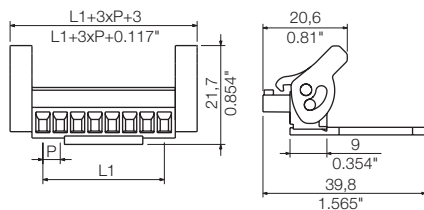
Dimensioned drawing



BCF 3.81/./180LRZE



Dimensioned drawing



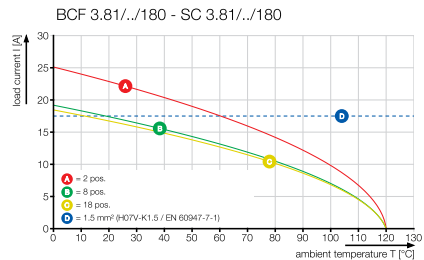
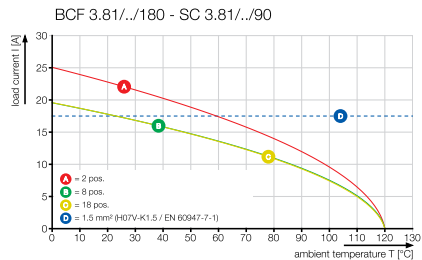
Ordering data

Solder pin length					
Colour			orange		black
Pitch		3.81 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
5	15.24	0.600	50	1235970000	1231350000
6	19.05	0.750	50	1235980000	1231360000
7	22.86	0.900	50	1235990000	1231370000
8	26.67	1.050	50	1236000000	1231380000
9	30.48	1.200	50	1236010000	1231390000
10	34.29	1.350	50	1236020000	1231400000
11	38.10	1.500	50	1236030000	1231420000
12	41.91	1.650	50	1236040000	1231430000
13	45.72	1.800	50	1236050000	1231440000
14	49.53	1.950	50	1236070000	1231450000
15	53.34	2.100	50	1236080000	1231460000
16	57.12	2.250	50	1236090000	1231470000
17	60.96	2.400	50	1236100000	1231480000
18	64.77	2.550	50	1236110000	1231490000

Ordering data

Solder pin length					
Colour			orange		black
Pitch 3.81 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
5	15.24	0.600	50	1236120000	1231520000
6	19.05	0.750	50	1236130000	1231530000
7	22.86	0.900	50	1236140000	1231540000
8	26.67	1.050	50	1236150000	1231550000
9	30.48	1.200	50	1236160000	1231560000
10	34.29	1.350	50	1236170000	1231570000
11	38.10	1.500	50	1236180000	1231580000
12	41.91	1.650	50	1236190000	1231590000
13	45.72	1.800	50	1236200000	1231610000
14	49.53	1.950	50	1236210000	1231620000
15	53.34	2.100	50	1236220000	1231630000
16	57.12	2.250	50	1236230000	1231640000
17	60.96	2.400	50	1236240000	1231650000
18	64.77	2.550	50	1236250000	1231660000

Additional derating curves



Connectors in 3.81 mm pitch Series BC/SC 3.81

BCL-SMT 3.81/./90



Inverted female headers for:

- Touch-safety on the circuit board with board-to-wire connection (with the SCZ)
- Board-to-board component connection (with SC/SC-SMT)
- Works with reflow soldering and automatic placement.
Orientation: 90°
- Available in closed version with screw Flange (F) and inverted solder flange (LFI).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

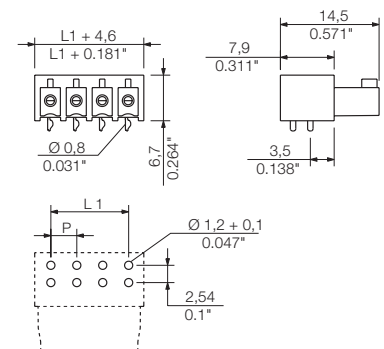
Note:

- 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.

BCL-SMT 3.81/./90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	17.5	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III
Pollution severity		3	2
Rated voltage	V	160	160
Rated impulse voltage	kV	2.5	2.5
UL / CUL (Use Group)	B C D		
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG		
CSA (Use Group)	B C D		
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	-	-
General data			
Type of insulation material		LCP GF	
Flammability class UL 94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8	
Solder eyelet Ø = D	mm	1.2	
Solder eyelet Ø tolerance	mm	+ 0,1	

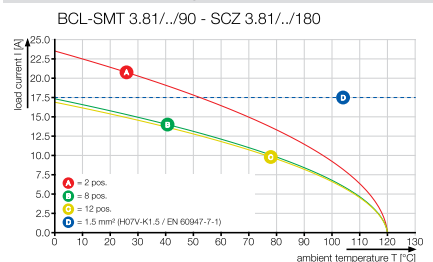
Accessories

Note: Refer to the Accessories chapter for additional accessories.

Ordering data

Solder pin length				1.5 mm
Colour				black
Pitch		3.81 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	3.81	0.150	50	1974750000
3	7.62	0.300	50	1974770000
4	11.43	0.450	50	1974780000
5	15.24	0.600	50	1974800000
6	19.05	0.750	50	1974820000
7	22.86	0.900	50	1974840000
8	26.67	1.050	50	1974850000
9	30.48	1.200	50	1974880000
10	34.29	1.350	50	1974890000
11	38.10	1.500	50	1974910000
12	41.91	1.650	50	1974930000

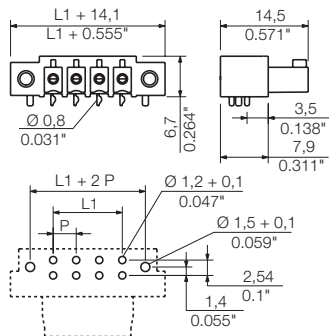
Representative derating curve



BCL-SMT 3.81/././90LFI



Dimensioned drawing



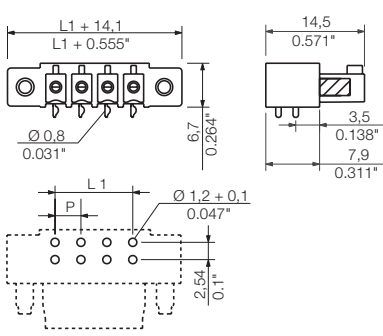
Ordering data

Solder pin length		1.5 mm
Colour		black
Pitch		3.81 mm
Pol.	L1 (inch)	Qty. Order No.
2	3.81 0.150	50 1028720000
3	7.62 0.300	50 1028730000
4	11.43 0.450	50 1028740000
5	15.24 0.600	50 1028750000
6	19.05 0.750	50 1028760000
7	22.86 0.900	50 1028770000
8	26.67 1.050	50 1028790000
9	30.48 1.200	50 1028810000
10	34.29 1.350	50 1028820000
11	38.10 1.500	50 1028830000
12	41.91 1.650	50 1028840000

BCL-SMT 3.81/././90F



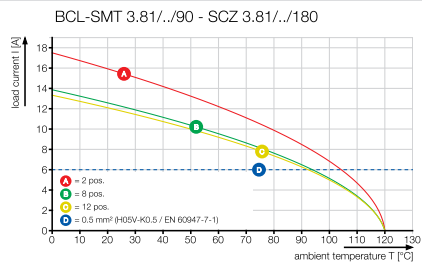
Dimensioned drawing



Ordering data

Solder pin length		1.5 mm
Colour		black
Pitch		3.81 mm
Pol.	L1 (inch)	Qty. Order No.
2	3.81 0.150	50 1975690000
3	7.62 0.300	50 1975700000
4	11.43 0.450	50 1975710000
5	15.24 0.600	50 1975730000
6	19.05 0.750	50 1975740000
7	22.86 0.900	50 1975750000
8	26.67 1.050	50 1975760000
9	30.48 1.200	50 1975780000
10	34.29 1.350	50 1975790000
11	38.10 1.500	50 1975820000
12	41.91 1.650	50 1975830000

Additional derating curves



Connectors in 3.81 mm pitch

Series BC/SC 3.81

BCL-SMT 3.81/./180



Inverted female headers for:

- Touch-safety on the circuit board with board-to-wire (when connecting with the SCZ)
- Board-to-board component connection (with SC/SC-SMT)
- Works with reflow soldering and automatic placement.
- Orientation: 180°
- Available in closed version and with inverted solder flange (LFI).

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

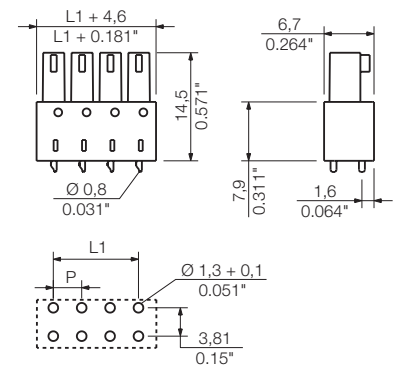
Note:

- 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.

BCL-SMT 3.81/./180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	17.5	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III
Pollution severity		3	2
Rated voltage	V	160	160
Rated impulse voltage	kV	2.5	2.5
UL / CUL (Use Group)	B C D		
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG		
CSA (Use Group)	B C D		
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	-	-
General data			
Type of insulation material		LCP GF	
Flammability class UL 94		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8	
Solder eyelet Ø = D	mm	1.2	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

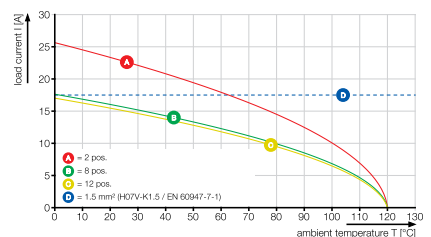
Note: Refer to the Accessories chapter for additional accessories.

Ordering data

Solder pin length		1.5 mm	
Colour		black	
Pitch	3.81 mm		
Pol.	L1	(inch)	Qty. Order No.
2	3.81	0.150	50 1976490000
3	7.62	0.300	50 1976500000
4	11.43	0.450	50 1976520000
5	15.24	0.600	50 1976530000
6	19.05	0.750	50 1976550000
7	22.86	0.900	50 1976570000
8	26.67	1.050	50 1976580000
9	30.48	1.200	50 1976590000
10	34.29	1.350	50 1976610000
11	38.10	1.500	50 1976620000
12	41.91	1.650	50 1976640000

Representative derating curve

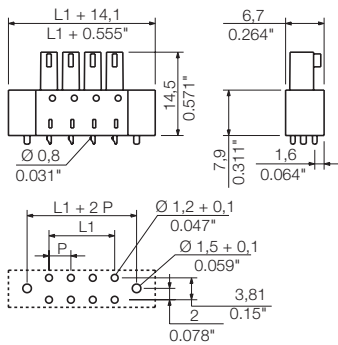
BCL-SMT 3.81/./180 - SCZ 3.81/./180



BCL-SMT 3.81/./180LFI



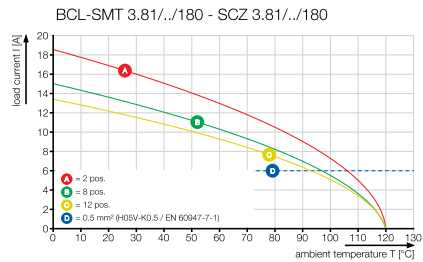
Dimensioned drawing



Ordering data

Solder pin length		1.5 mm		
Colour		black		
Pitch		3.81 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	3.81	0.150	50	1029260000
3	7.62	0.300	50	1029270000
4	11.43	0.450	50	1029280000
5	15.24	0.600	50	1029290000
6	19.05	0.750	50	1029310000
7	22.86	0.900	50	1029320000
8	26.67	1.050	50	1029330000
9	30.48	1.200	50	1029340000
10	34.29	1.350	50	1029350000
11	38.10	1.500	50	1029360000
12	41.91	1.650	50	1029370000

Additional derating curves



Male header SL-SMT 5.0x and SL-SMarT 5.0x

The connecting element in the reflow process

Optimised for SMT (Surface Mount Technology)

Innovative, application oriented male headers made from high temperature insulating material LCP (Liquid crystal polymer) permits seamless integration of the connections into the automated SMT production process, including reflow soldering.

The comprehensive portfolio impresses with significant gains in efficiency in assembly production, i.e. a reduction of manufacturing costs of up to 30 %, with increased process security and proven reliability.

Integrated to fit your design

Adaptable connection system – the colour of the male headers can be adapted to the device design and not the other way around. Male headers made of LCP available in black, grey or green.

Standard-compliant fixing

More benefit with less overhead: the patented solder flange reduces three steps into one while simultaneously protecting the solder location from continuous mechanical stress. A uniform drill-hole diameter: no attachment of the fastening screw is required since the additional attachment is taken care of automatically during the solder process

SL-SMarT: designed for automatic machine assembly

All pole counts are “on board” – with only two articles needed in inventory and in feeder. A patented design, with self-adjusting 2- and 3-pole male header modules, results in a reduced number of varieties required and reduced costs. The security and efficiency of your process are increased because they can be processed without a Pick & Place pad.

Delivered to fit your process:

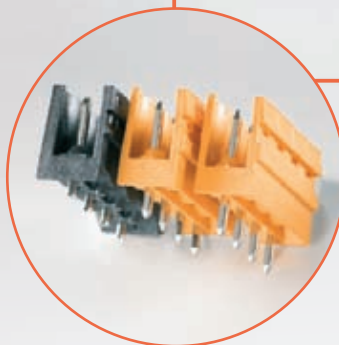
Tape packaging with optimised tape pockets customised to match the width and pole count: this ensures that the feeders are used optimally and that the male headers are securely positioned on the tape.



C

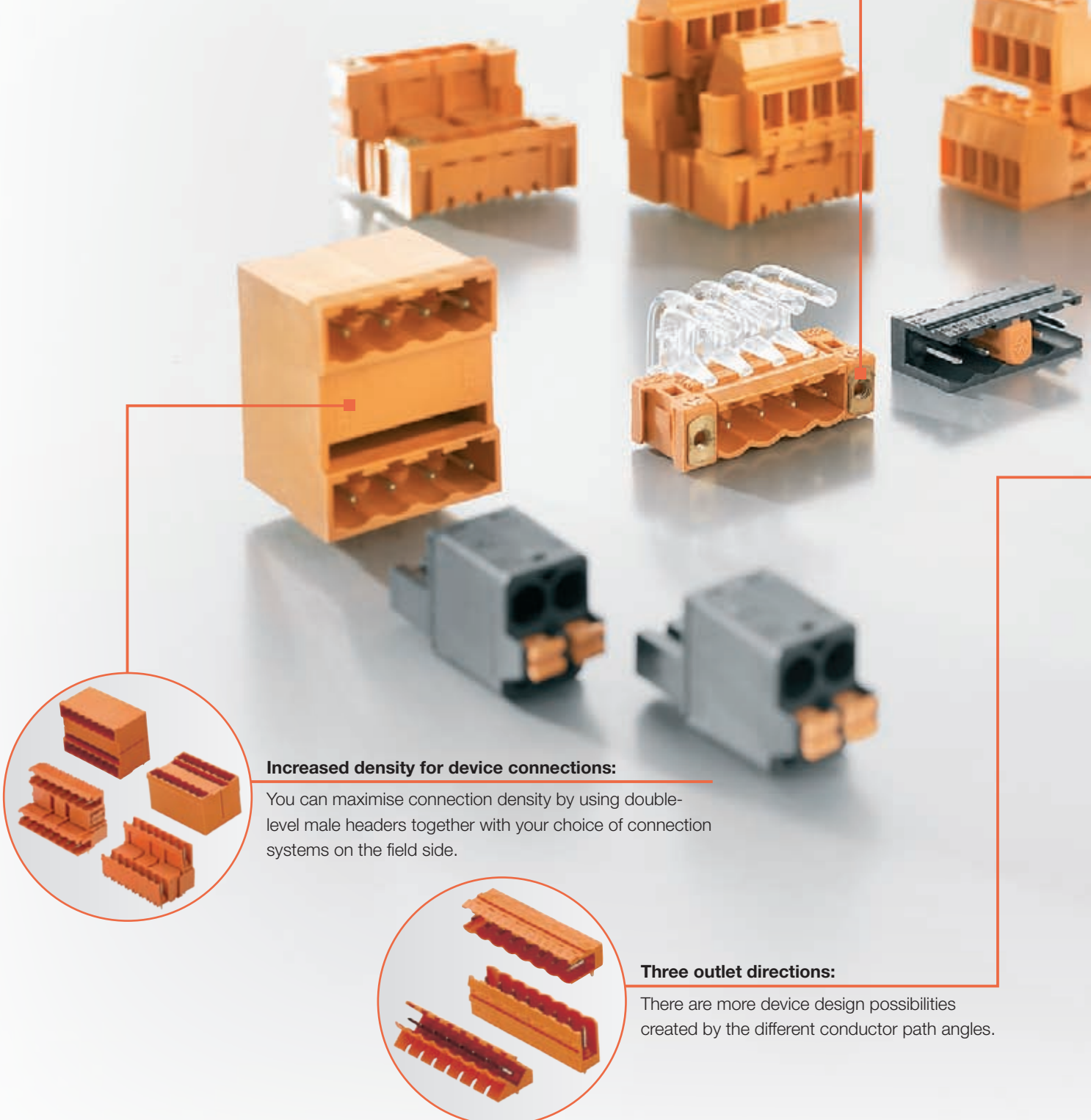
Specified to fit your application:

1.5 mm short pins for flush solder joints permit PCB assembly on both sides in accordance with IPC A-610 and also reduces the solder paste volume significantly. At the same time, the required stroke length of the Pick & Place machine is reduced to a minimum. As an alternative, 3.2 mm pins are available for PCBs thicker than 1.6 mm.



Male header SL 5.0x Optimised for wave soldering

These male headers in 5.00 mm and 5.08 mm pitch with the characteristics wave design in the mating face are the standard headers used in industrial automation. This male header has already enjoyed decades of market success; it is the basis for device connection systems for both wave and manual soldering.

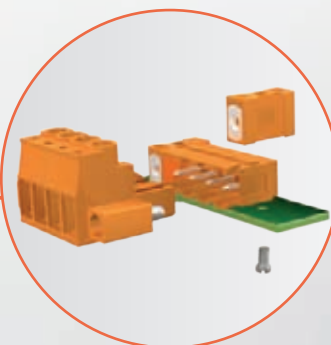


Increased density for device connections:

You can maximise connection density by using double-level male headers together with your choice of connection systems on the field side.

Three outlet directions:

There are more device design possibilities created by the different conductor path angles.



Safe under vibration and shock

- Vibration proof connection between male header and female plug
- The male header can also be screwed to the PCB
- Available with gold-plated surfaces



Specified to fit your assembly process

Gold-plated male headers have gold plating on the functional surfaces but not on the solder surfaces. This prevents contamination of the solder bath.



Integrated to fit your design

Adaptable connection system - the colour of the plug connectors fits to the device design and not the other way around.



Extensive accessories

- Light guides carry signals from the PCB LEDs to the front plate
- Partitions can be used to visually separate the different functional areas of the male header.
- All male headers can be manually coded or ordered as pre-coded headers.

BLZP 5.0x

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 an increase in security and efficiency in both fabrication and use. Resulting from this are additional customer benefits, such as a continuous function and safety chain, increased efficiency and process reliability and much more user friendly operation.



Folded steel clamping yoke

When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area. This ensures a maintenance free and durable gas-tight connection. In addition, the elastic behaviour of the clamping yoke compensates for the setting of the connected wire and any temperature induced deviations.



Hybrid contacts

The current bar and the tulip contact are made from two different materials and then welded together. The current bar has high conductivity and the tulip contact is characterised by its excellent spring properties.



Safe connection – error-free wiring

The integrated "wire guard" feature prevents dangerous insertion of the wire below the clamping area and thus protects against contact or insertion errors.



Securely lock – simply release

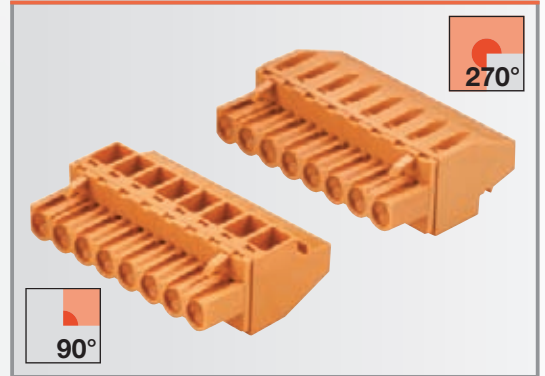
Fast, self-locking with the male header for tool-free handling. Releasing of the female plug is gentle on components.

Safe contacting – universal operation

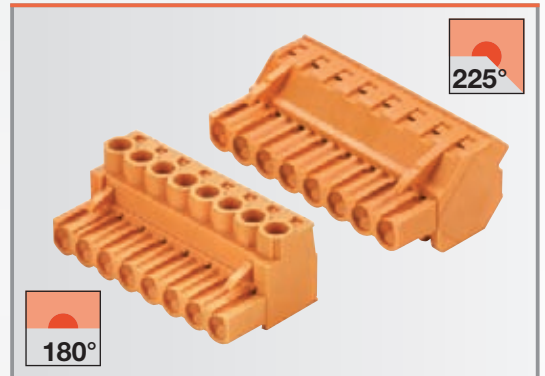
Globally compatible screw head for uncomplicated operation with standard hand tools or power tools.



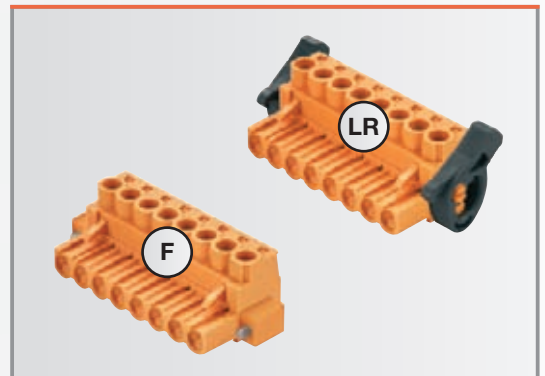
Conductor outlet direction up/down



Conductor outlet direction straight/inclined



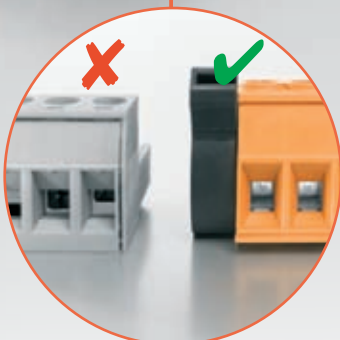
Locking options



F = screw flange / LR = Lock & Release lever

Process-compatible by default – economical processing

Unpack – “Wire Ready” – Connect. The “Wire Ready” technology ensures that all clamping units are fully open on delivery, even after world-wide shipping.



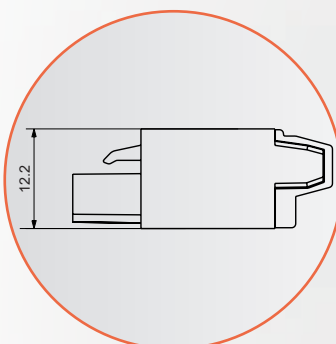
BLT 5.08

Female plug for limited space installation locations

The BLT range is the most compact TOP connection of its type available in 5.08 mm pitch. This greatly simplifies device design because the cable entry and screw are located in the same plane of the plug-in connector. With the wire connection parallel to the circuit board, the BLT is specialised for use in limited installation spaces and high packing densities.

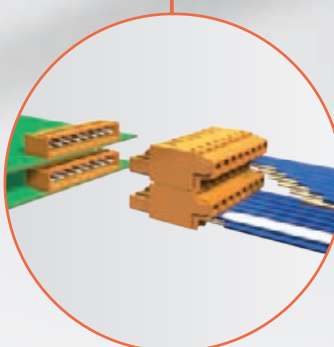


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Minimal height

With a height of only 12.2 mm, the BLT is currently the smallest TOP connection available.



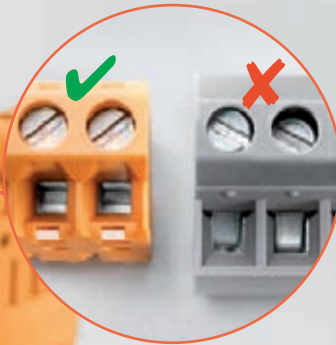
High component density

Normal screw terminals have a 90° angle between the directions of the cable entry and the screw. The required space must then be taken into account when designing the device. However with the TOP connection system, the directions for wire entry and clamping operations are the same.



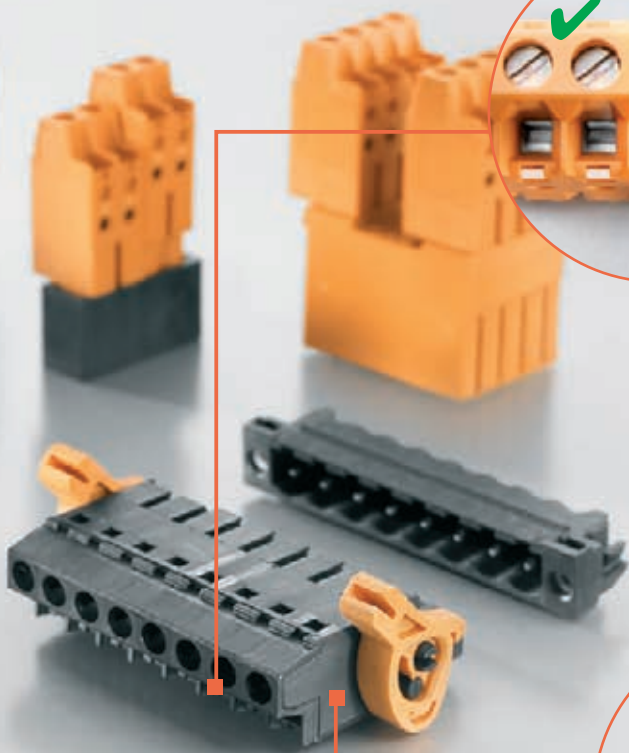
Secure interlock and simple release

Fast, self-locking with the male header for tool-free handling. Releasing of the female plug is gentle on components.



Process-compatible by default – economical processing

Unpack – “Wire Ready” – Connect. The “Wire Ready” technology ensures that all clamping units are fully open on delivery, even after world-wide shipping.



Safe to use with no-fault wiring:

The BLT's “pull effect” ensures that the connected wire is pulled in to the clamping point for a securely established contact.



Hybrid contacts

For every function, the best material. The current bar and the tulip contact are made from two different materials and then welded together. The current bar has high conductivity and the tulip contact is characterised by its excellent spring properties.