

OMNIMATE Signal

PCB connectors in 3.50 mm pitch

OMNIMATE Signal PCB connectors in 3.50 mm pitch	Double-row connectors in 3.50 mm pitch Series B2C/S2C 3.50	Explanation	C.2
		Quick selection	C.4
		Product selection	C.6
	Connectors in 3.50 mm pitch Series BL/SL 3.50	Explanation	C.20
		Quick selection	C.24
		Product selection	C.26

Powerful compact connector with "PUSH IN" wire connection

OMNIMATE Signal – simple and safe connection for wires up to 1.5 mm²



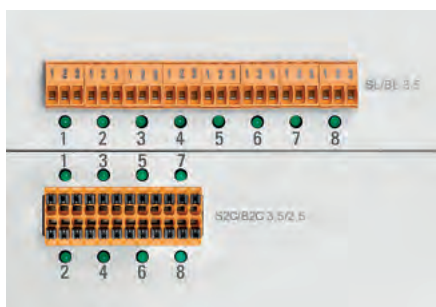
C

When designing customised device connectivity products for modern applications, it is becoming increasingly important to find the perfect fit between device miniaturisation and increased device functionality. Our new double-row OMNIMATE B2CF Signal connector, in 3.5 mm pitch, has this perfect fit and enables a new generation of more compact installations.

This connector is easy to work with, despite the increased functionality being packed into a compact space. The "PUSH IN" direct-insert wire connection mechanism allows you to conveniently connect the signal wires. There are more useful features: the tool-free locking and unlocking, the touch-safe male header, and the outstanding clarity provided by easy-to-read markers that identify each terminal point.

Packing Density 2.0

Smaller devices with increased technical capabilities are being designed for more applications. They take advantage of more contacts packed onto a small surface and a large wire cross-section capacity.



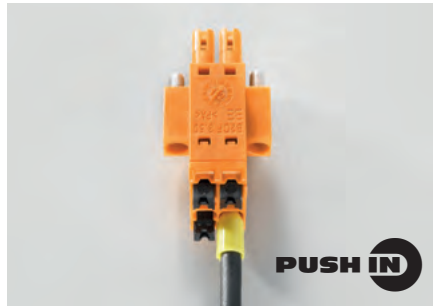
Clear frontal marking

Clarity is enhanced with clearly legible markers at each terminal point and unique labelling of the installation position.



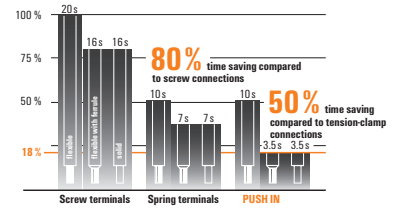
Large wire cross-sections

You can easily connect wires with cross-sections up to 1.5 mm² (when using wire-end ferrules) and up to 1.0 mm² (when using ferrules and plastic collars).



Direct insertion

PUSH IN: the quick, tool-free, intuitive connection mechanism for prepared wires. www.push-in.com



Halogen-free and IEC 60335

Halogen-free materials ensure future compatibility and extended approvals enhance the range of use for new device designs.



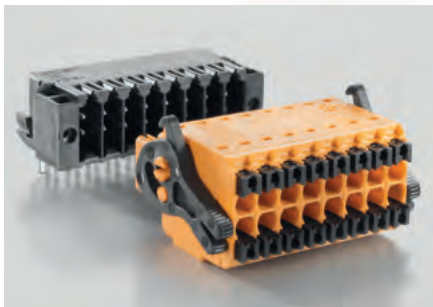
Convincing system accessories

Our matching accessories – including markers, light guides, strain relief and coding – improve operational safety and enable a professional design.



Convincing safety during use

This connector system is safe to use, with attractive features such as quick wire connections, tool-free locking and unlocking, and touch-safe design.



Solid "PUSH IN" contacts

A safe, permanent connection is ensured by the optimised spring steel and specially-shaped contact element.



<http://www.OMNIMATE.net>

○

= Wire-to-Board

●

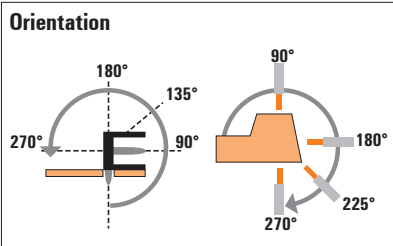
= Board-to-Board

●

= Wire-to-Wire

●

= Board-to-Wire



B2C/S2C 3.50 series



Levels			
Type			
	Orientation		
		Flange options	
			IEC / UL
			Page

Female plug	Spring PUSH IN		B2CF	180°	(G)/F/LR	IEC: 320 V/13.4 A/0.14 - 1.5 mm ² UL: 300 V/10 A/AWG 26 - 16	C.12
	Tension clamp (with internal cross connection)		B2L QV	180°	(G)/F/LH	IEC: 200 V/10.6 A/0.2 - 1 mm ² UL: 150 V/7 A/AWG 28 - 18	C.18

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

Male header:
G = Closed (without flange)
F = Screw flange with nut
LF = Solder flange with nut

* not included in the article description

Male header


Reflow solder connection


Solder connection

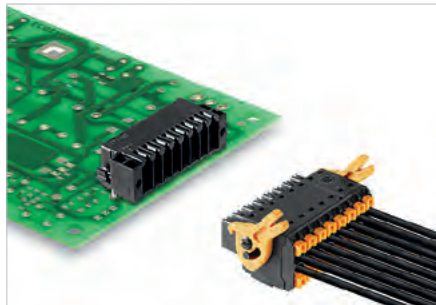


1		2	1	
S2C-SMT	S2C-SMT	S2CD-THR	S2L	S2L
90°	180°	90°	90°	180°
G/LF	G/LF	G/LF	G/F	G/F
IEC: 200 V/13.4 A UL: 150 V/10 A	IEC: 200 V/13.4 A UL: 150 V/10 A	IEC: 200 V/7.9 A UL: 150 V/7 A	IEC: 250 V/10 A UL: 150 V/10 A	IEC: 250 V/10 A UL: 150 V/10 A
C.6	C.8	C.10	C.14	C.16
				
				

Double-row connectors in 3.50 mm pitch

Series B2C/S2C 3.50

B2CF/S2C and B2L/S2C 3.50 series



High-temperature-resistant, double-row male header

- Finger-safe
- Plugging direction parallel to PCB (recumbent / 90°)
- Housing variants: closed (G) and with solder flange (LF)
- Packed either in a box (BX) or tape-on-reel (RL)
- Suitable for reflow and wave soldering applications
- Pin length of either 1.5 mm or 3.2 mm
- Can be plugged into female plug B2CF 3.50/./180..

Product data

IEC: 200 V / 13.4 A

UL: 150 V / 10 A



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

Note:

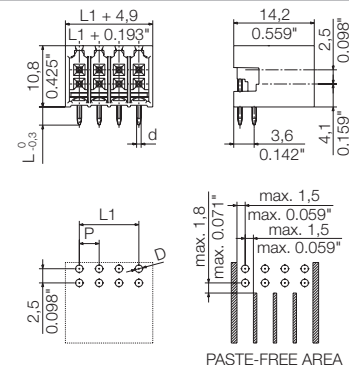
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance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

S2C-SMT 3.50/./90G Box

closed side



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	13.4	12	
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	160	200
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	10		
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Cu-Leg		
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 3.50 KO BK BX	1849740000
B2L/S2L 3.50 KO OR BX	1849730000
LED light guide	
S2L-SMT 3.5 FLA 20/10	1814590000

Ordering data

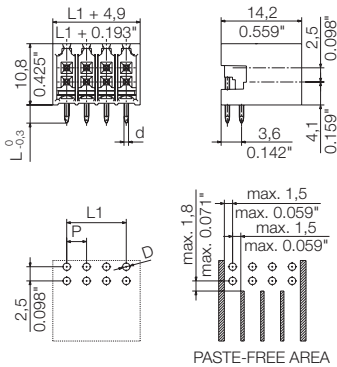
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch		3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	222	1289630000	1288980000
6	7.00	0.276	156	1289640000	1289270000
8	10.50	0.413	120	1289650000	1289280000
10	14.00	0.551	96	1289670000	1289290000
12	17.50	0.689	84	1289680000	1289300000
14	21.00	0.827	72	1289700000	1289310000
16	24.50	0.965	60	1289710000	1289320000
18	28.00	1.102	54	1289720000	1289330000
20	31.50	1.240	48	1289730000	1289340000
22	35.00	1.378	42	1289740000	1289350000
24	38.50	1.516	42	1289750000	1289370000
26	42.00	1.654	36	1289770000	1289380000
28	45.50	1.791	36	1289780000	1289390000
30	49.00	1.929	30	1289790000	1289410000
32	52.50	2.067	30	1289800000	1289420000
34	56.00	2.205	30	1289810000	1289430000
36	59.50	2.343	24	1289820000	1289440000

S2C-SMT 3.50/./90G Tape

closed side; tape-on-reel



Dimensioned drawing



Ordering data

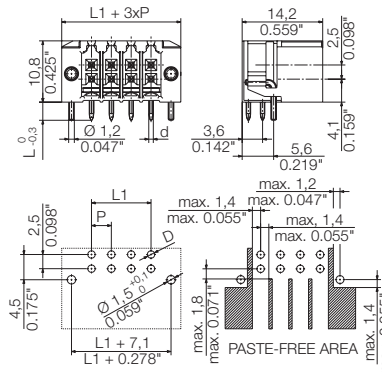
Solder pin length		1.5 mm	3.2 mm
Colour		Black	Black
Pitch		3.50 mm	
Pol.	L1 (inch)	Qty.	Order No.
4	3.50	0.138	235 1359580000 1359460000
6	7.00	0.276	235 1359590000 1359470000
8	10.50	0.413	235 1359600000 1359480000
10	14.00	0.551	235 1359610000 1359490000
12	17.50	0.689	235 1359620000 1359510000
14	21.00	0.827	235 1359630000 1359520000
16	24.50	0.965	235 1359640000 1359530000
18	28.00	1.102	235 1359650000 1359540000
20	31.50	1.240	235 1359670000 1359550000
22	35.00	1.378	235 1359680000 1359560000
24	38.50	1.516	235 1359690000 1359570000

S2C-SMT 3.50/./90LF Box

with solder flange



Dimensioned drawing



Ordering data

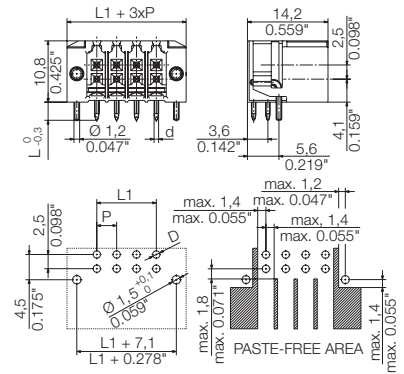
Solder pin length		1.5 mm	3.2 mm
Colour		Black	Black
Pitch		3.50 mm	
Pol.	L1 (inch)	Qty.	Order No.
4	3.50	0.138	132 1289830000 1289450000
6	7.00	0.276	102 1289840000 1289460000
8	10.50	0.413	84 1289850000 1289470000
10	14.00	0.551	72 1289870000 1289480000
12	17.50	0.689	66 1289880000 1289490000
14	21.00	0.827	54 1289890000 1289500000
16	24.50	0.965	48 1289910000 1289510000
18	28.00	1.102	48 1289930000 1289520000
20	31.50	1.240	42 1289940000 1289530000
22	35.00	1.378	36 1289950000 1289540000
24	38.50	1.516	36 1289960000 1289550000
26	42.00	1.654	30 1289970000 1289570000
28	45.50	1.791	30 1289980000 1289580000
30	49.00	1.929	30 1289990000 1289590000
32	52.50	2.067	24 1290000000 1289600000
34	56.00	2.205	24 1290010000 1289610000
36	59.50	2.343	24 1290020000 1289620000

S2C-SMT 3.50/./90LF Tape

with solder flange; tape-on-reel



Dimensioned drawing



Ordering data

Solder pin length		1.5 mm	3.2 mm
Colour		Black	Black
Pitch		3.50 mm	
Pol.	L1 (inch)	Qty.	Order No.
4	3.50	0.138	235 1359080000 1358890000
6	7.00	0.276	235 1359090000 1358910000
8	10.50	0.413	235 1359110000 1358930000
10	14.00	0.551	235 1359120000 1358950000
12	17.50	0.689	235 1359130000 1358980000
14	21.00	0.827	235 1359140000 1359010000
16	24.50	0.965	235 1359150000 1359030000
18	28.00	1.102	235 1359160000 1359050000
20	31.50	1.240	235 1359170000 1359070000

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

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

Double-row connectors in 3.50 mm pitch

Series B2C/S2C 3.50

S2C-SMT 3.50/./180



High-temperature-resistant, double-row male header

- Finger-safe
- Plugging direction vertical to PCB (standing / 180°)
- Housing variants: closed (G) and with solder flange (LF)
- Packed either in a box (BX) or tape-on-reel (RL)
- Suitable for reflow and wave soldering applications
- Pin length of either 1.5 mm or 3.2 mm
- Pluggable to female connector B2CF 3.50/./180..

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	13.4	12	
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	160	200
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	10		
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Cu-Leg		
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: 200 V / 13.4 A

UL: 150 V / 10 A



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

Note:

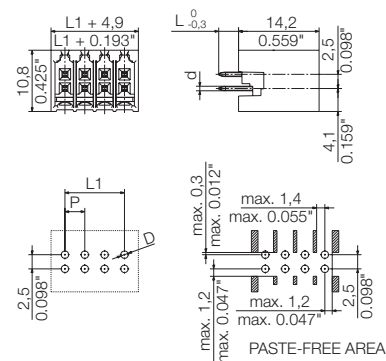
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance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

S2C-SMT 3.50/./180G Box

closed side



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
B2L/S2L 3.50 KO BK BX		1849740000
B2L/S2L 3.50 KO OR BX		1849730000



Ordering data

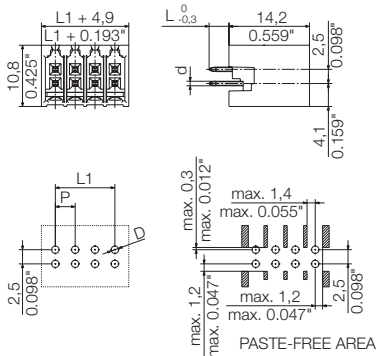
Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	222	1290410000	1290030000
6	7.00	0.276	156	1290420000	1290040000
8	10.50	0.413	120	1290430000	1290050000
10	14.00	0.551	96	1290440000	1290060000
12	17.50	0.689	78	1290450000	1290070000
14	21.00	0.827	72	1290460000	1290080000
16	24.50	0.965	60	1290470000	1290090000
18	28.00	1.102	54	1290480000	1290110000
20	31.50	1.240	48	1290490000	1290120000
22	35.00	1.378	42	1290510000	1290130000
24	38.50	1.516	42	1290520000	1290140000
26	42.00	1.654	36	1290530000	1290150000
28	45.50	1.791	36	1290540000	1290160000
30	49.00	1.929	30	1290550000	1290170000
32	52.50	2.067	30	1290560000	1290180000
34	56.00	2.205	30	1290570000	1290190000
36	59.50	2.343	24	1290580000	1290210000

S2C-SMT 3.50/./180G Tape

closed side; tape-on-reel



Dimensioned drawing



Ordering data

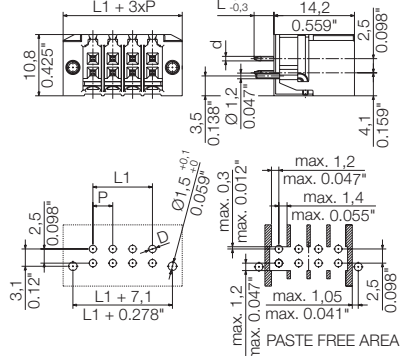
Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch		3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	175	1358860000	1358730000
6	7.00	0.276	175	1358870000	1358740000
8	10.50	0.413	175	1358880000	1358750000
10	14.00	0.551	175	1358900000	1358770000
12	17.50	0.689	175	1358920000	1358780000
14	21.00	0.827	175	1358940000	1358790000
16	24.50	0.965	175	1358970000	1358810000
18	28.00	1.102	175	1358990000	1358820000
20	31.50	1.240	150	1359020000	1358830000
22	35.00	1.378	150	1359040000	1358840000
24	38.50	1.516	150	1359060000	1358850000

S2C-SMT 3.50/./180LF Box

with solder flange



Dimensioned drawing



Ordering data

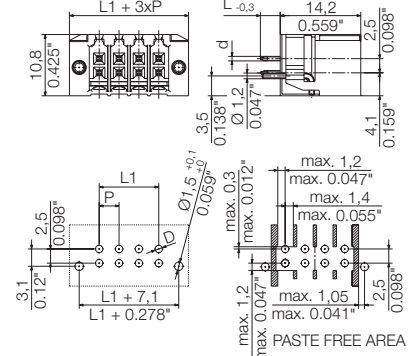
Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch				3.50 mm	
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	132	1290590000	1290220000
6	7.00	0.276	102	1290610000	1290230000
8	10.50	0.413	84	1290620000	1290240000
10	14.00	0.551	72	1290640000	1290250000
12	17.50	0.689	66	1290650000	1290260000
14	21.00	0.827	54	1290660000	1290270000
16	24.50	0.965	48	1290670000	1290280000
18	28.00	1.102	48	1290680000	1290290000
20	31.50	1.240	42	1290690000	1290310000
22	35.00	1.378	36	1290710000	1290320000
24	38.50	1.516	36	1290720000	1290330000
26	42.00	1.654	30	1290730000	1290340000
28	45.50	1.791	30	1290740000	1290350000
30	49.00	1.929	30	1290750000	1290360000
32	52.50	2.067	24	1290760000	1290370000
34	56.00	2.205	24	1290770000	1290380000
36	59.50	2.343	24	1290780000	1290390000

S2C-SMT 3.50/./180LF Tape

with solder flange; tape-on-reel



Dimensioned drawing



Ordering data

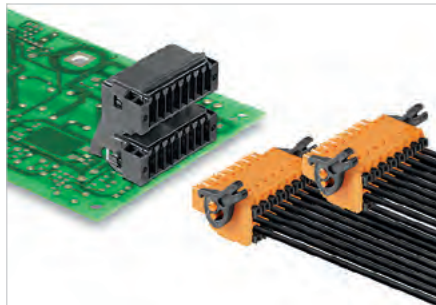
Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch				3.50 mm	
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	175	1358630000	1358530000
6	7.00	0.276	175	1358640000	1358540000
8	10.50	0.413	175	1358650000	1358550000
10	14.00	0.551	175	1358670000	1358570000
12	17.50	0.689	175	1358680000	1358580000
14	21.00	0.827	175	1358690000	1358590000
16	24.50	0.965	175	1358700000	1358600000
18	28.00	1.102	150	1358710000	1358610000
20	31.50	1.240	150	1358720000	1358620000

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

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

Double-row connectors in 3.50 mm pitch Series B2C/S2C 3.50

S2CD-THR 3.50/./90



High contact density on a small surface: 75% space savings on the PCB. The only 4-row double-level male header for typical IP 20 sensor interfaces in 3.50 mm pitch.

- Finger-safe
- Plugging direction in parallel to circuit board (horizontal / 90°)
- Housing variants: closed (G) and with solder flange (LF)
- Packed in a cardboard box (BX)
- Suitable for reflow and wave soldering applications
- Pin length 3.2 mm
- Can be plugged into female plug B2CF 3.50/./180..

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	7.9	6.8	
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	100	160	200
Rated impulse voltage	kV	1.5	2.5	2.5
UL / CUL (Use Group)	B	C	D	
Rated voltage	V	150	50	50
Rated current	A	9.5	9.5	9.5
AWG conductor	AWG		-	
CSA (Use Group)	B	C	D	
Rated voltage	V	50		
Rated current	A	5		
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Cu-Leg		
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: 200 V / 7.9 A
UL: 150 V / 9.5 A



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

Note:

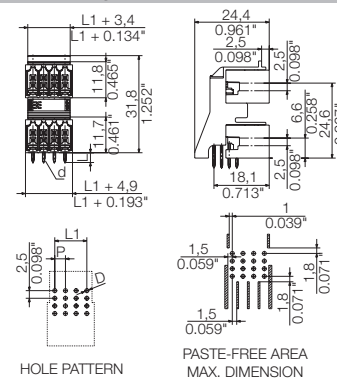
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance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

S2CD-THR 3.50/./90G

closed side



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
B2L/S2L 3.50 KO BK BX	1849740000
B2L/S2L 3.50 KO OR BX	1849730000



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	1357790000	
12	7.00	0.276	50	1357800000	
16	10.50	0.413	20	1357820000	
20	14.00	0.551	20	1357830000	
24	17.50	0.689	20	1357840000	
28	21.00	0.827	20	1357850000	
32	24.50	0.965	20	1357870000	
36	28.00	1.102	20	1357880000	

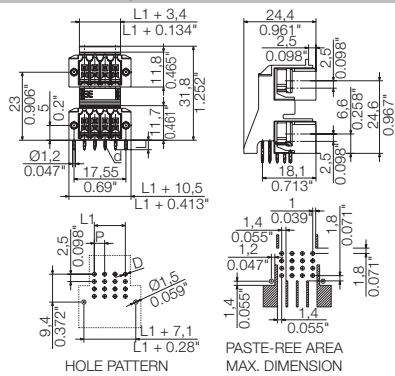
1.5 mm solder pin length available on request

S2CD-THR 3.50/./90LF

with solder flange



Dimensioned drawing



Ordering data

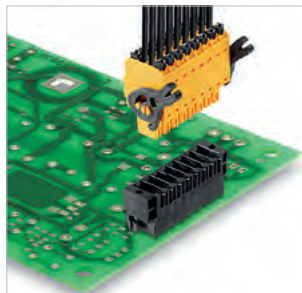
Solder pin length		3.2 mm		
Colour		Black		
Pitch		3.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
8	3.50	0.138	50	1357890000
12	7.00	0.276	50	1357900000
16	10.50	0.413	20	1357920000
20	14.00	0.551	20	1357930000
24	17.50	0.689	20	1357940000
28	21.00	0.827	20	1357950000
32	24.50	0.965	20	1357970000
36	28.00	1.102	20	1357990000

1.5 mm solder pin length available on request

Double-row connectors in 3.50 mm pitch

Series B2C/S2C 3.50

B2CF 3.50/./180



Two-row female plug with "PUSH IN" spring connection.

- Simply insert the prepared wires - finished
- Intuitive handling - since the wire-entry area and handling area are clearly separated.
- Integrated push-buttons for opening the terminal point
- High component density because of low heights
- Optional: the lock and release requires no tools when using Weidmüller's patented (LR) release latch
- Approval according to IEC 60335 and GL in preparation
- Also compatible with series: S2L 3.50, S2L-SMT 3.50 and S2LD-THR 3.50

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	mm ²	0.14...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.14...1.5	
Flexible with ferrule	mm ²	0.14...1.5	
Ferrule with plastic collar	mm ²	0.14...1	
Stripping length	mm	10	
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	13.4	12
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1.5	
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
Rated voltage	V	300	50
Rated current	A	10	10
AWG conductor	AWG	26-16	
CSA (Use Group)		B	C
Rated voltage	V	300	
Rated current	A	5	
AWG conductor	AWG	26-16	
General data			
Type of insulation material		PA 66 GF 30	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 320 V / 13.4 A / 0.14 - 1.5 mm²
UL: 300 V / 10 A / AWG 26 - 16



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

Note:

- Additional colours on request
 - Gold-plated contact surfaces on request
 - Rated current related to rated cross-section & min. No. of poles.
 - Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.
 - P on drawing = pitch
 - Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
 - Max. outer diameter of the conductor 2.6 mm
- Wire-end ferrule w/plastic collar DIN 46228/4 or Weidmüller colour code
- 1.00mm² [H1.0/18D] mtl. ferrule leng. 12mm, stripping leng. 15mm
 - 0.75mm² [H0.75/18D] mtl. ferrule leng. 12mm, stripping leng. 14mm
 - 0.50mm² [H0.5/16D] mtl. ferrule leng. 10mm, stripping leng. 12mm
 - 0.34mm² [H0.34/12] mtl. ferrule leng. 8mm, stripping leng. 10mm
 - 0.25mm² [H0.25/12] mtl. ferrule leng. 8mm, stripping leng. 10mm
 - 0.14mm² [H0.14/12] mtl. ferrule leng. 8mm, stripping leng. 10mm
- Wire-end ferrule w/o plastic collar acc. to DIN 46228/1
- 1.50mm² [H1.5/10] mtl. ferrule leng. 10mm, stripping leng. 10mm
- Wire-end ferrule w/plastic collar DIN 46228/4 and 2 connec. cables
- 2 x 0.20mm² [H0.5/16] mtl. ferrule leng. 10mm, stripping leng. 12mm
 - 2 x 0.34mm² [H1.0/18] mtl. ferrule leng. 12mm, stripping leng. 15mm

Accessories

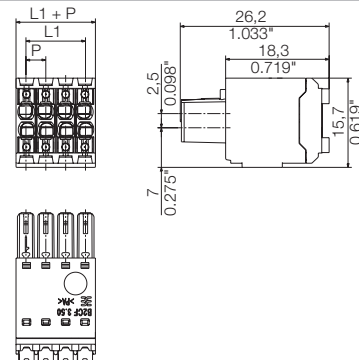
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
B2L/S2L 3.50 KO BK BX	1849740000
B2L/S2L 3.50 KO OR BX	1849730000
Strain relief	
BL 3.50 ZE03 BK BX	1627820000
BL 3.50 ZE03 OR BX	1629680000
BL 3.50 ZE08 OR BX	1629690000
Screwdriver	
SDS 0.4X2.5X75	9009030000
Crimping tool	
PZ 1.5	9005990000
PZ 6/5	9011460000

B2CF 3.50/./180



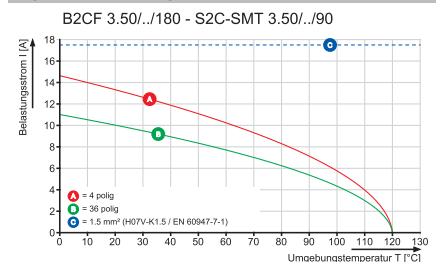
Dimensioned drawing



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	264	1277270000	1277460000
6	7.00	0.276	174	1277280000	1277470000
8	10.50	0.413	132	1277290000	1277480000
10	14.00	0.551	102	1277310000	1277490000
12	17.50	0.689	84	1277320000	1277510000
14	21.00	0.827	72	1277330000	1277520000
16	24.50	0.965	66	1277340000	1277530000
18	28.00	1.102	54	1277350000	1277540000
20	31.50	1.240	48	1277360000	1277550000
22	35.00	1.378	48	1277370000	1277560000
24	38.50	1.516	42	1277380000	1277570000
26	42.00	1.654	36	1277390000	1277580000
28	45.50	1.791	36	1277410000	1277590000
30	49.00	1.929	30	1277420000	1277610000
32	52.50	2.067	30	1277430000	1277620000
34	56.00	2.205	30	1277440000	1277630000
36	59.50	2.343	24	1277450000	1277640000

Representative deratings curve

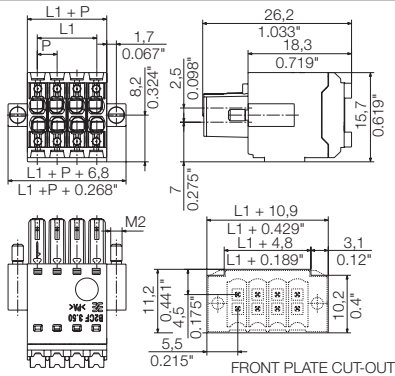


B2CF 3.50/./180F

with screw flange



Dimensioned drawing



Ordering data

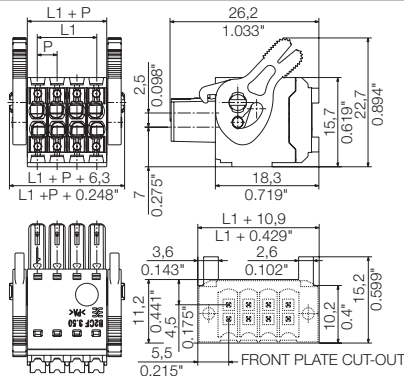
Solder pin length						
Colour			Orange		Black	
Pitch		3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
4	3.50	0.138	114	1277650000	1277860000	
6	7.00	0.276	108	1277670000	1277870000	
8	10.50	0.413	90	1277680000	1277880000	
10	14.00	0.551	72	1277690000	1277890000	
12	17.50	0.689	66	1277720000	1277900000	
14	21.00	0.827	60	1277730000	1277910000	
16	24.50	0.965	48	1277740000	1277920000	
18	28.00	1.102	48	1277750000	1277930000	
20	31.50	1.240	42	1277760000	1277940000	
22	35.00	1.378	36	1277770000	1277950000	
24	38.50	1.516	36	1277780000	1277970000	
26	42.00	1.654	30	1277790000	1277980000	
28	45.50	1.791	30	1277810000	1277990000	
30	49.00	1.929	30	1277820000	1278000000	
32	52.50	2.067	24	1277830000	1278010000	
34	56.00	2.205	24	1277840000	1278020000	
36	59.50	2.343	24	1277850000	1278030000	

B2CF 3.50/./180LR

with release latch



Dimensioned drawing



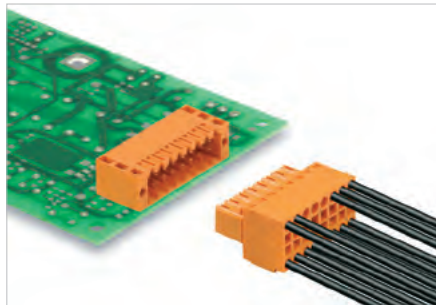
Ordering data

Solder pin length						
Colour			Orange		Black	
Pitch		3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
4	3.50	0.138	138	1278040000	1278230000	
6	7.00	0.276	108	1278050000	1278240000	
8	10.50	0.413	90	1278060000	1278250000	
10	14.00	0.551	78	1278070000	1278260000	
12	17.50	0.689	66	1278080000	1278270000	
14	21.00	0.827	60	1278090000	1278280000	
16	24.50	0.965	54	1278100000	1278290000	
18	28.00	1.102	48	1278110000	1278300000	
20	31.50	1.240	42	1278120000	1278310000	
22	35.00	1.378	36	1278130000	1278320000	
24	38.50	1.516	36	1278140000	1278340000	
26	42.00	1.654	36	1278150000	1278350000	
28	45.50	1.791	30	1278170000	1278370000	
30	49.00	1.929	30	1278180000	1278380000	
32	52.50	2.067	30	1278190000	1278390000	
34	56.00	2.205	24	1278200000	1278400000	
36	59.50	2.343	24	1278210000	1278410000	

Release lever (LH) see Online catalogue

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).

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	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	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
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: 250 V / 10 A
UL: 150 V / 10 A



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

Note:

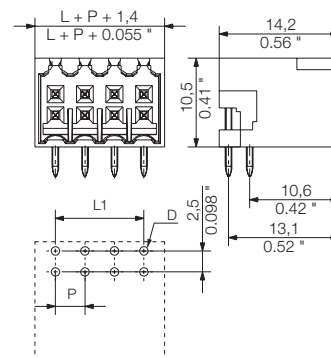
- Additional colours on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components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

S2L 3.50/./90G

closed ends



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
B2L/S2L 3.50 KO BK BX	1849740000
B2L/S2L 3.50 KO OR BX	1849730000
LED light guide	
S2L 3.5 FLA 20/10	1699580000
Mounting screw	
PTSC KA 2.2X4.5 WN1412	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

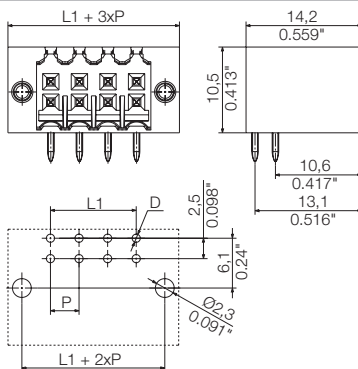
For open version, see online catalogue

S2L 3.50/./90F

with screw flange



Dimensioned drawing



Ordering data

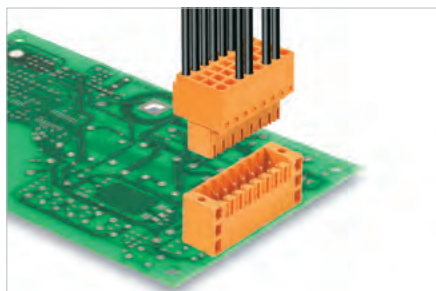
Solder pin length			3.5 mm		3.5 mm	
Colour			Orange		Black	
Pitch			3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
6	7.00	0.276	50	1728470000	1728630000	
8	10.50	0.413	50	1728480000	1728640000	
10	14.00	0.551	50	1728490000	1728650000	
12	17.50	0.689	50	1728500000	1728660000	
14	21.00	0.827	50	1728510000	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

Double-row connectors in 3.50 mm pitch

Series B2L/S2L 3.50

S2L 3.50/././180



Straight, double-row male header. Male headers with 3.5 mm pins that are designed for wave soldering and are packaged in a box. The flange version can be screwed on the PCB. The male headers provide space for labelling and can be coded. Available in closed (G) version and with screw flange (F).

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	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	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
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: 250 V / 10 A

UL: 150 V / 10 A



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

Note:

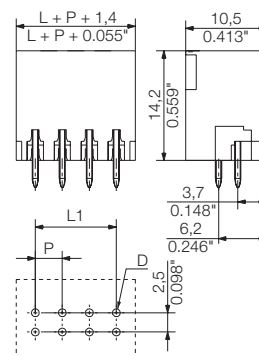
- Additional colours on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components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

S2L 3.50/././180G

closed ends



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
B2L/S2L 3.50 KO BK BX	1849740000
B2L/S2L 3.50 KO OR BX	1849730000
Mounting screw	
PTSC KA 2.2X4.5 WN1412	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.
6	7.00 0.276	50	1728790000 1728950000
8	10.50 0.413	50	1728800000 1728960000
10	14.00 0.551	50	1728810000 1728970000
12	17.50 0.689	50	1728820000 1728980000
14	21.00 0.827	50	1728830000 1728990000
16	24.50 0.965	50	1728840000 1729000000
18	28.00 1.102	20	1728850000 1729010000
20	31.50 1.240	20	1728860000 1729020000
22	35.00 1.378	20	1728870000 1729030000
24	38.50 1.516	20	1728880000 1729040000
26	42.00 1.654	20	1728890000 1729050000
28	45.50 1.791	20	1728900000 1729060000
30	49.00 1.929	20	1728910000 1729070000
32	52.50 2.067	20	1728920000 1729080000

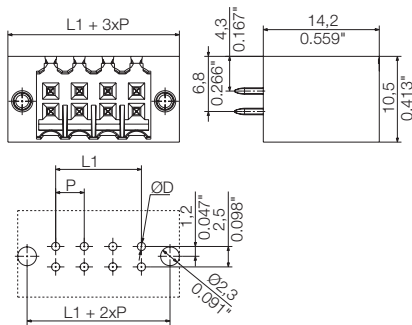
For open version, see online catalogue

S2L 3.50/./180F

with screw flange



Dimensioned drawing



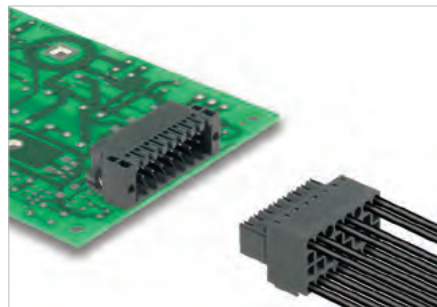
Ordering data

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 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: 150 V / 7 A / AWG 28 - 18



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

Note:

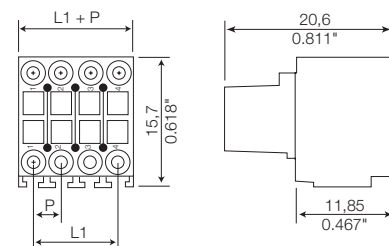
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- We recommend crimp shape 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
Pollution severity		3	2
Rated voltage	V	80	160
Rated impulse voltage	kV	1.5	2.5
UL / CUL (Use Group)		B	C
Rated voltage	V	150	50
Rated current	A	7	7
AWG conductor	AWG	28-18	
CSA (Use Group)		B	C
Rated voltage	V	300	
Rated current	A	7	
AWG conductor	AWG	28-18	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

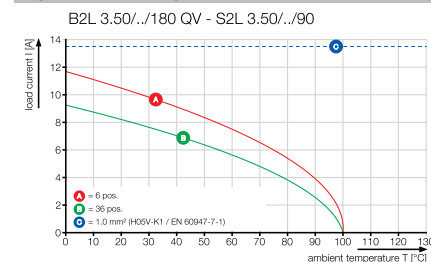
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
B2L/S2L 3.50 KO BK BX	1849740000
B2L/S2L 3.50 KO OR BX	1849730000
Hood	
B2L 3.50 AH06 BK BX	1781560000
B2L 3.50 AH08 BK BX	1781570000
B2L 3.50 AH10 BK BX	1781580000
B2L 3.50 AH12 BK BX	1781590000
B2L 3.50 AH14 BK BX	1781600000
B2L 3.50 AH16 BK BX	1781610000
B2L 3.50 AH18 BK BX	1781620000
B2L 3.50 AH20 BK BX	1781630000
B2L 3.50 AH22 BK BX	1781640000
B2L 3.50 AH24 BK BX	1781650000
B2L 3.50 AH26 BK BX	1781660000
B2L 3.50 AH28 BK BX	1781670000
B2L 3.50 AH30 BK BX	1781680000
B2L 3.50 AH32 BK BX	1781690000
B2L 3.50 AH34 BK BX	1781700000
B2L 3.50 AH36 BK BX	1781710000
Screwdriver	
SDS 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 deratings curve

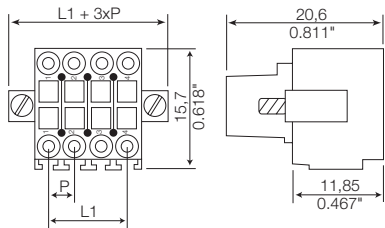


B2L 3.50/./180FQV

with cross-connection and flange



Dimensioned drawing

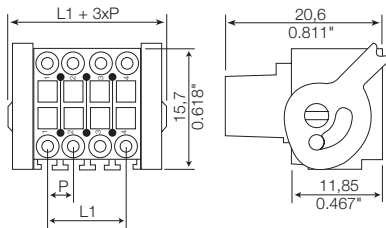


B2L 3.50/./180LHQV

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	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	

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 BL/SL Connector system with 3.50 pitch and the connection of I/Os

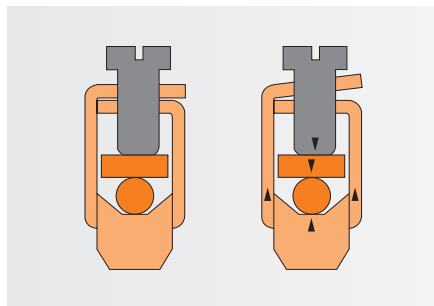
Extensive range of male headers and female plugs that cover different angles to the PCB and conductor angle to the field as well as a large range of accessories make the 3.50 mm pitch very versatile.

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)

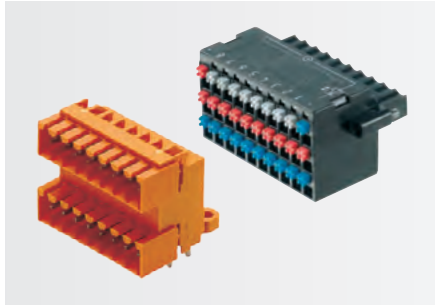
Reliable connection technology

Decide on the best connection technology such as the service-free standard: Weidmüller clamping yoke connection with 100 % reliability and 100 % work output: steel for strength and copper for current.



Maximum packing density

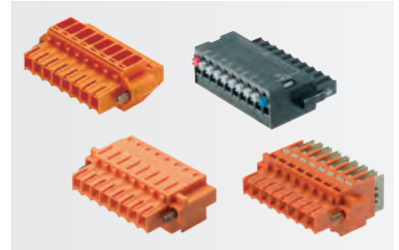
Either in a device using double layer male headers SLD or in the field using a 3 row socket connector BL-I/O.

**Advanced application possibilities**

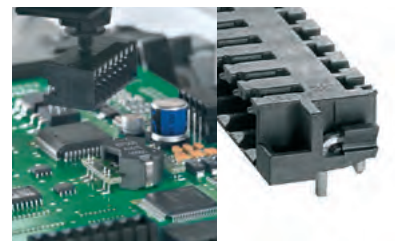
The extensive range of accessories increases the versatility and permits any desired combination of male headers and female plugs.

**Versatile field connection**

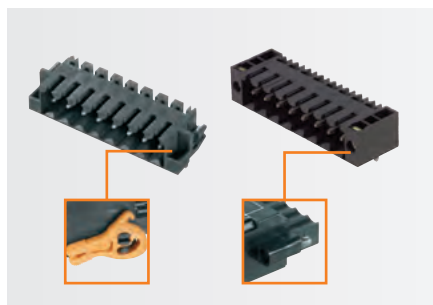
Choose your individual connection from the classic screw connection BL, the future-proof "PUSH IN" connection BL-I/O, the proven tension-clamp system BLZF or the quick connection BLIDCB.

**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.

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

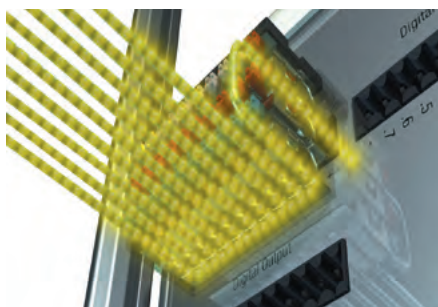
- extremely compact,
- 1 or 3 row female plug, suitable for connection of remote sensors and/or actuators
- with integrated LED display
- and integrated cross-connections for potential distribution.

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.

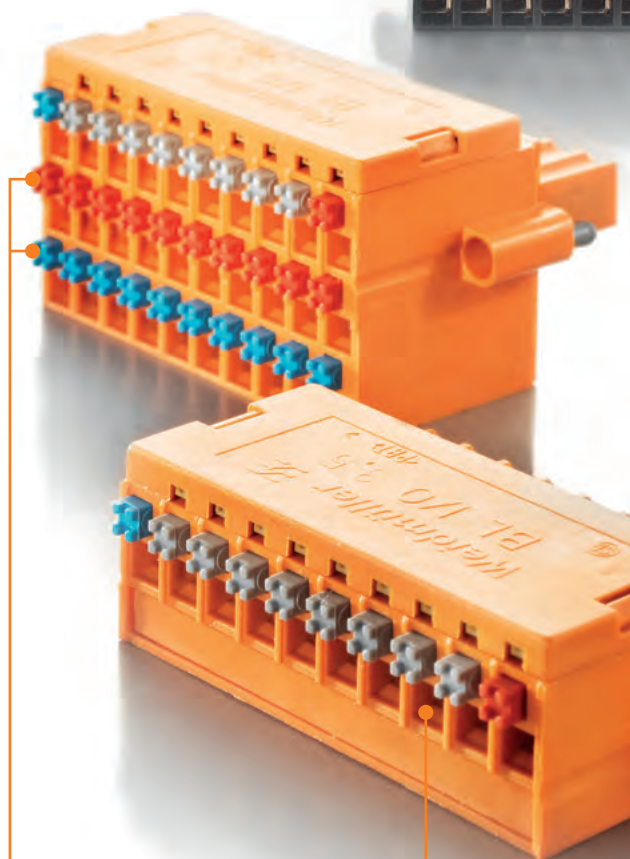
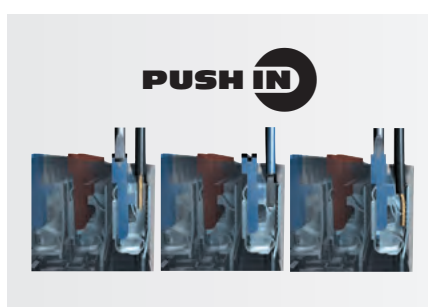
Multiply your potential

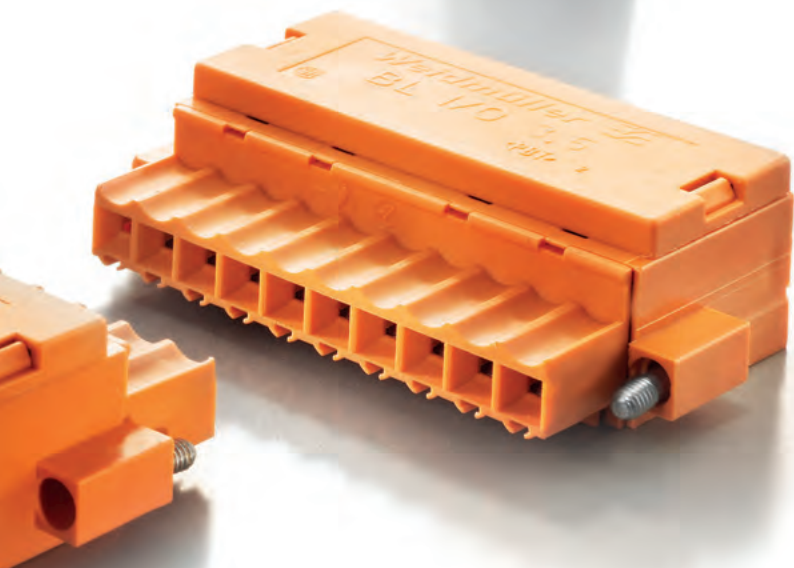
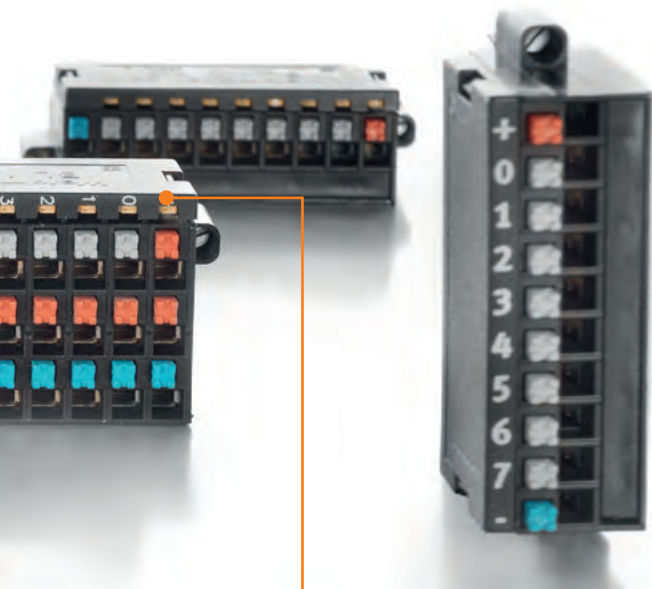
Special cross-connectors, that are integrated into the second and third rows of the female plug, distribute the supply voltage to the individual I/O channels. In this way you can input, transfer or bridge the supply voltage. Thus you can save space with the I/O electronics, and you can reduce your wiring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





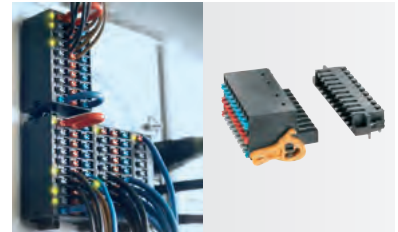
Integrated LEDs

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.



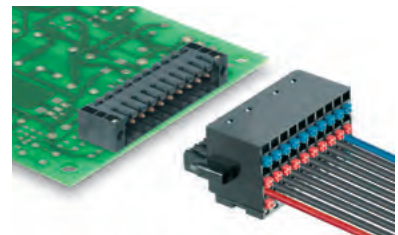
Intuitive locking and releasing

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.



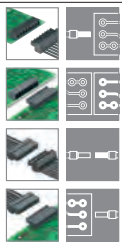
<http://www.OMNIMATE.net>

○ = Wire-to-Board

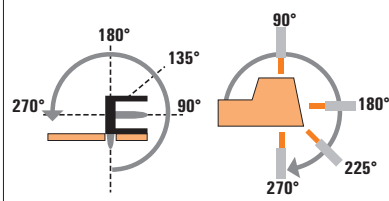
● = Board-to-Board

● = Wire-to-Wire

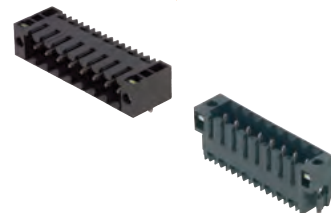
● = Board-to-Wire



Orientation



Reflow solder connection



BL/SL 3.50 series



Levels

1

Type	SL-SMT	SL-SMT	
Orientation	90°	180°	
Flange options	G/F/LF/RF	G/F/LF	
IEC / UL	IEC: 320 V/15 A UL: 300 V/10 A	IEC: 320 V/15 A UL: 300 V/10 A	
Page	C.26	C.29	

Female plug	Clamping yoke		BL	180°	(G)/F/LH/LR	IEC: 320 V/17 A/0.2 - 1.5 mm² UL: 300 V/10 A/AWG 28 - 14	C.44			
			BL	90°	(G)/F	IEC: 320 V/12 A/0.2 - 1.5 mm² UL: 300 V/8 A/AWG 28 - 14	C.46			
			BL	270°	(G)/F	IEC: 320 V/12 A/0.2 - 1.5 mm² UL: 300 V/8 A/AWG 28 - 14	C.47			
	Tension clamp		BLZF	180°	(G)/F/LH/LR	IEC: 320 V/14.5 A/0.2 - 1.5 mm² UL: 300 V/10 A/AWG 26 - 14	C.48			
	IDC Bus		BLIDCB	180°	(G)/F	IEC: 250 V/6 A/0.35 - 0.5 mm² UL: 300 V/7 A/AWG 22 - 20	C.50			
	Spring PUSH IN		BL-I/O 10 Pole	180°	F/LR/FP	IEC: 200 V/2.2 A/0.2 - 1.0 mm² UL: ≤ 200 V/5 A/AWG 22 - 16	C.52			
		BL-I/O 30 Pole	180°	F/LR/FP	IEC: 200 V/2.2 A/0.2 - 1.0 mm² UL: ≤ 200 V/5 A/AWG 22 - 16	C.53				
Female header	Solder con.		BLL	180°	(G)	IEC: 320 V/15.1 A UL: 300 V/10 A	C.59			

Female plug:

(G)* = Closed (without flange)

F = Screw flange with screw

LH = Release lever

LR = Lock & Release lever

FP = shifted flange

Male header:

(O)* = open

G = Closed (without flange)

F = Flange with nut

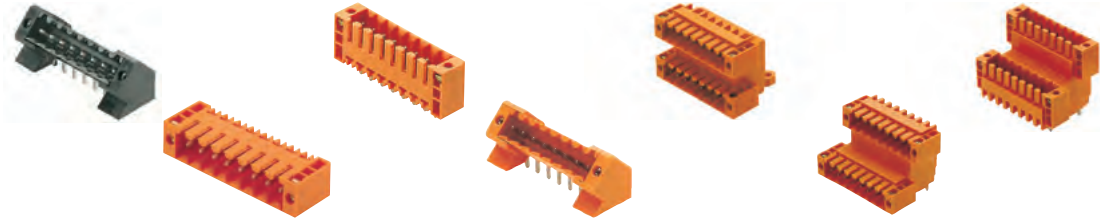
LF = Solder flange with nut

RF = Locking flange for LR with solder pin

* not included in the article description

Male header

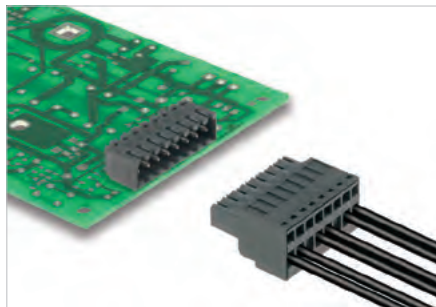

Solder connection



1		1			2		
	SL-THR	SL	SL	SL	SLD	SLD V	SLD V
	135°	90°	180°	135°	90°	90°	180°
	F	(O)/G/F	(O)/G/F	F	G/F	G/F	G/F
	IEC: 320 V/15 A UL: 300 V/10 A	IEC: 320 V/15 A UL: 300 V/10 A	IEC: 320 V/15 A UL: 300 V/10 A	IEC: 320 V/15 A UL: 300 V/10 A	IEC: 200 V/10.5 A UL: 300 V/8 A	IEC: 200 V/10.5 A UL: 300 V/8 A	IEC: 200 V/10.5 A UL: 300 V/8 A
	C.37	C.32	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:

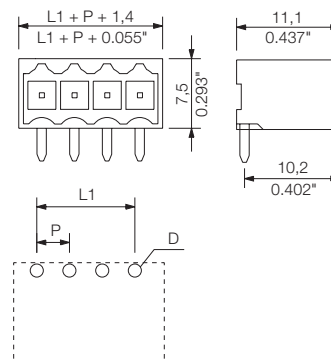
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Diameter of solder eyelet $D = 1.5 \pm 0.1$ mm from 9-pole
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT 3.50/./90G Box

closed side



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	
UL 94 flammability rating		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 3.50 VR BK BX	1669300000
	BL/SL 3.50 VR OR BX	1669310000
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
	PTSC KA 2.2X4.5 WN1412	1610740000

Ordering data

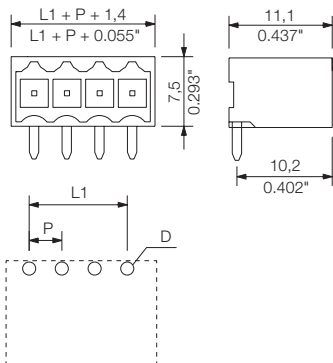
Soldier pin length				1.5 mm		3.2 mm	
Colour				Black		Black	
Pitch 3.50 mm							
Pol.	L1	(inch)	Qty.	Order No.	Order No.		
2	3.50	0.138	100	1761542001	1841630000		
3	7.00	0.276	100	1761552001	1841640000		
4	10.50	0.413	100	1761562001	1841650000		
5	14.00	0.551	50	1761572001	1841660000		
6	17.50	0.689	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

closed side; tape-on-reel



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

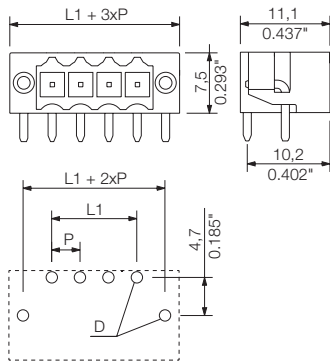
Tape widths: 32, 44, 56, 72, 88

SL-SMT 3.50/./90LF Box

with solder flange



Dimensioned drawing



Ordering data

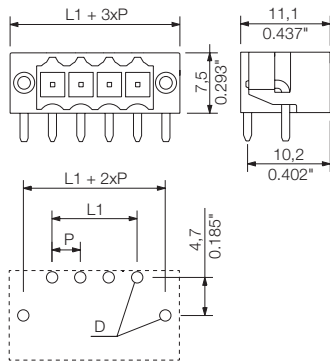
Solder pin length			1.5 mm		3.2 mm	
Colour			Black		Black	
Pitch			3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
2	3.50	0.138	100	1804940000	1841860000	
3	7.00	0.276	100	1804950000	1841870000	
4	10.50	0.413	100	1804960000	1841880000	
5	14.00	0.551	50	1804970000	1841890000	
6	17.50	0.689	50	1804980000	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	

SL-SMT 3.50/./90LF Tape

with solder flange; tape-on-reel



Dimensioned drawing



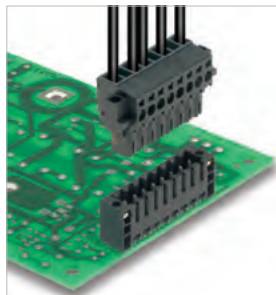
Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch		3.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	385	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 with screw flange (F) and with solder flange for lock and release lever (RF).

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		
UL 94 flammability rating		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		

Product data

IEC: 320 V / 15 A

UL: 300 V / 10 A



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

Note:

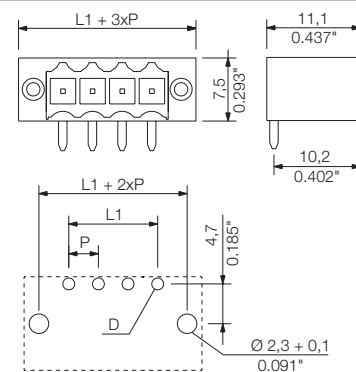
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Diameter of solder eyelet $D = 1.5 \pm 0.1$ mm from 9-pole
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT 3.50/./90F Box

with screw flange



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
Interlock		
	BL/SL 3.50 VR BK BX	1669300000
	BL/SL 3.50 VR OR BX	1669310000
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

3.50

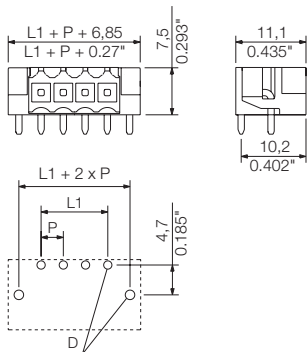
90°

SL-SMT 3.50/./90RF Box

with snap-on solder flange



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	1379610000
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

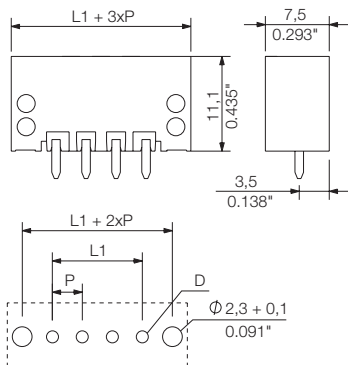
Compatible with release latch (LR)

SL-SMT 3.50/./180F Box

with screw flange



Dimensioned drawing

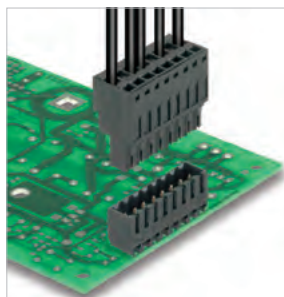


Ordering data

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

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 with screw flange (F) and with solder flange (LF).
- Packed either in box (BX) or on tape-on-reel (RL).

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		
UL 94 flammability rating		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		

Product data

IEC: 320 V / 15 A

UL: 300 V / 10 A



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

Note:

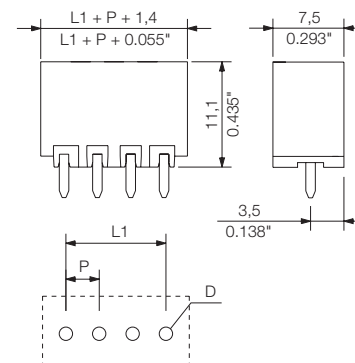
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Diameter of solder eyelet D = 1.5±0.1mm from 9-pole
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL SMT 3.50../180G Box

closed side



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
Interlock		
	BL/SL 3.50 VR BK BX	1669300000
	BL/SL 3.50 VR OR BX	1669310000

Ordering data

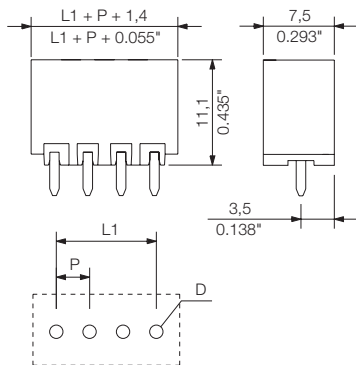
Solder pin length				1.5 mm		3.2 mm	
Colour				Black		Black	
Pitch				3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.	Order No.	Order No.
2	3.50	0.138	100	1752982001	1842320000	1842320000	1842320000
3	7.00	0.276	100	1752992001	1842330000	1842330000	1842330000
4	10.50	0.413	100	1753002001	1842340000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

SL SMT 3.50/./180G Tape

closed side; tape-on-reel



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

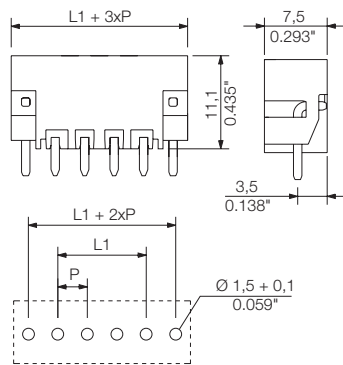
Tape widths: 32, 44, 56, 72, 88

SL SMT 3.50/./180LF Box

with solder flange



Dimensioned drawing



Ordering data

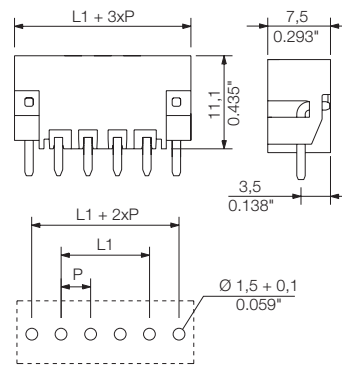
Solder pin length			1.5 mm		3.2 mm	
Colour			Black		Black	
Pitch			3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
2	3.50	0.138	100	1804700000	1842540000	
3	7.00	0.276	100	1804710000	1842550000	
4	10.50	0.413	100	1804720000	1842560000	
5	14.00	0.551	50	1804730000	1842570000	
6	17.50	0.689	50	1804740000	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	

SL SMT 3.50/./180LF Tape

with solder flange; tape-on-reel



Dimensioned drawing



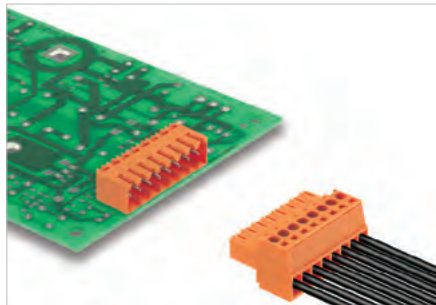
Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch		3.50 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	265	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
10	31.50	1.138	265	1936340000

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



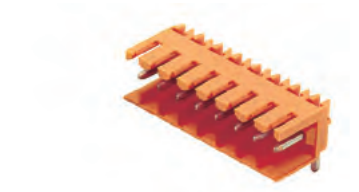
For additional articles and information, refer to catalog.weidmueller.com

Note:

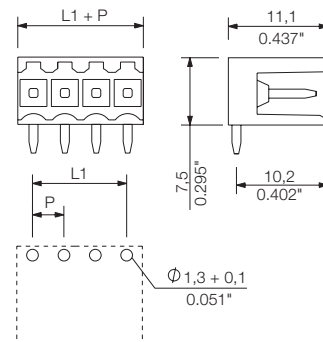
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with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

SL 3.50../90

open side



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	
UL 94 flammability rating			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.

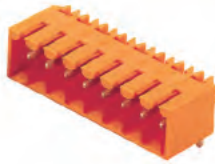
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Interlock		
	BL/SL 3.50 VR BK BX	1669300000
	BL/SL 3.50 VR OR BX	1669310000
LED light guide		
	SL 3.5 FLA 1.5/1.75/8	1597630000
	SL 3.5 FLA 1.5/8	1597510000
	SL 3.5 FLA 2.3/1.75/8	1597640000
	SL 3.5 FLA 2.3/8	1597520000
	SL 3.5 FLA 4.0/1.75/8	1597650000
	SL 3.5 FLA 4.0/8	1597530000
Mounting screw		
	PTSC KA 2.2X4.5 WN1412	1610740000

Ordering data

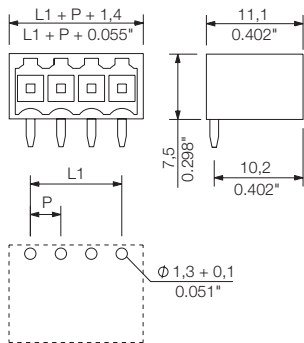
Solder pin length		3.2 mm		
Colour		Orange		
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1597210000
3	7.00	0.276	100	1597220000
4	10.50	0.413	100	1597230000
5	14.00	0.551	50	1597240000
6	17.50	0.689	50	1597250000
7	21.00	0.827	50	1597260000
8	24.50	0.965	50	1597270000
9	28.00	1.102	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

closed side



Dimensioned drawing

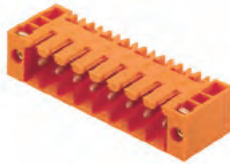


Ordering data

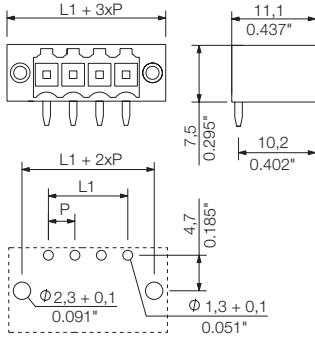
Solder pin length				3.2 mm
Colour				Orange
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1605070000
3	7.00	0.276	100	1605080000
4	10.50	0.413	100	1605090000
5	14.00	0.551	50	1605100000
6	17.50	0.689	50	1605110000
7	21.00	0.827	50	1605120000
8	24.50	0.965	50	1605130000
9	28.00	1.102	50	1605140000
10	31.50	1.240	50	1605150000
11	35.00	1.378	50	1605160000
12	38.50	1.516	50	1605170000
13	42.00	1.654	50	1605180000
14	45.50	1.791	50	1605190000
15	49.00	1.929	50	1605200000
16	52.50	2.067	50	1605210000
17	56.00	2.205	20	1619380000
18	59.50	2.343	20	1619390000
19	63.00	2.480	20	1619400000
20	66.50	2.618	20	1619410000
21	70.00	2.756	20	1619420000
22	73.50	2.894	20	1619430000
23	77.00	3.031	20	1619440000
24	80.50	3.169	20	1619450000

SL 3.50/./90F

with screw flange



Dimensioned drawing

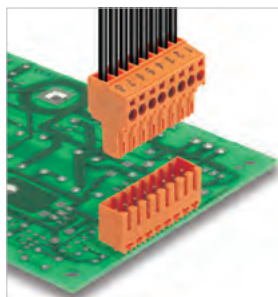


Ordering data

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



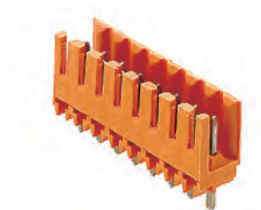
For additional articles and information, refer to catalog.weidmueller.com

Note:

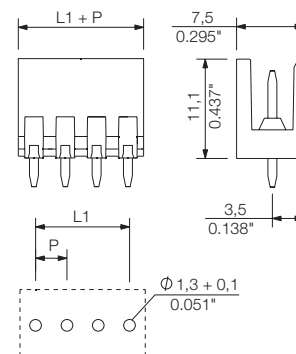
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with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

SL 3.50../180

open side



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		
UL 94 flammability rating		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 3.50 VR BK BX	1669300000
	BL/SL 3.50 VR OR BX	1669310000
Mounting screw		
	PTSC KA 2.2X4.5 WN1412	1610740000

Ordering data

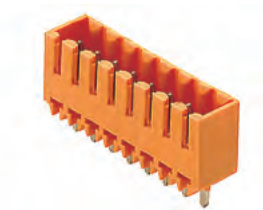
Solder pin length		3.2 mm		
Colour		Orange		
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1604770000
3	7.00	0.276	100	1604780000
4	10.50	0.413	100	1604790000
5	14.00	0.551	50	1604800000
6	17.50	0.689	50	1604810000
7	21.00	0.827	50	1604820000
8	24.50	0.965	50	1604830000
9	28.00	1.102	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

3.50

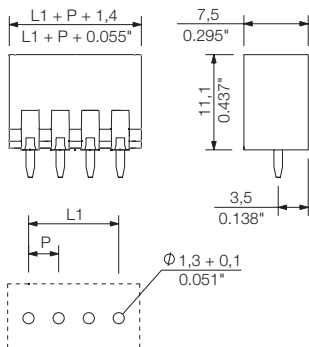
180°

SL 3.50/./180G

closed side



Dimensioned drawing



Ordering data

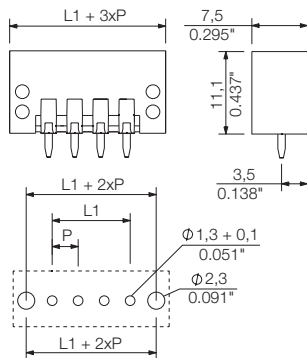
Solder pin length				3.2 mm
Colour				Orange
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1604470000
3	7.00	0.276	100	1604480000
4	10.50	0.413	100	1604490000
5	14.00	0.551	50	1604500000
6	17.50	0.689	50	1604510000
7	21.00	0.827	50	1604520000
8	24.50	0.965	50	1604530000
9	28.00	1.102	50	1604540000
10	31.50	1.240	50	1604550000
11	35.00	1.378	50	1604560000
12	38.50	1.516	50	1604570000
13	42.00	1.654	50	1604580000
14	45.50	1.791	50	1604590000
15	49.00	1.929	50	1604600000
16	52.50	2.067	50	1604610000
17	56.00	2.205	20	1621790000
18	59.50	2.343	20	1621800000
19	63.00	2.480	20	1621810000
20	66.50	2.618	20	1621820000
21	70.00	2.756	20	1621830000
22	73.50	2.894	20	1621840000
23	77.00	3.031	20	1621850000
24	80.50	3.169	20	1621860000

SL 3.50/./180F

with screw flange



Dimensioned drawing

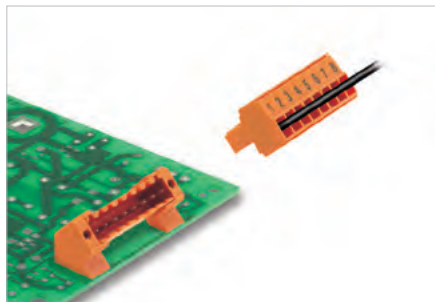


Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1607500000
3	7.00	0.276	100	1607510000
4	10.50	0.413	100	1607520000
5	14.00	0.551	50	1607530000
6	17.50	0.689	50	1607540000
7	21.00	0.827	50	1607550000
8	24.50	0.965	50	1607560000
9	28.00	1.102	50	1607570000
10	31.50	1.240	50	1607580000
11	35.00	1.378	50	1607590000
12	38.50	1.516	50	1607600000
13	42.00	1.654	50	1607610000
14	45.50	1.791	50	1607620000
15	49.00	1.929	50	1607630000
16	52.50	2.067	50	1607640000
17	56.00	2.205	20	1622180000
18	59.50	2.343	20	1622190000
19	63.00	2.480	20	1622200000
20	66.50	2.618	20	1622210000
21	70.00	2.756	20	1622220000
22	73.50	2.894	20	1622230000
23	77.00	3.031	20	1622240000
24	80.50	3.169	20	1622250000

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.

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	
UL 94 flammability rating			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	

Product data

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



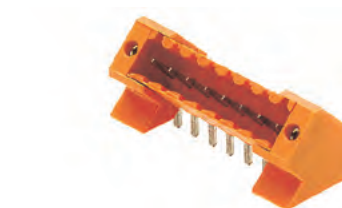
For additional articles and information, refer to
catalog.weidmüller.com

Note:

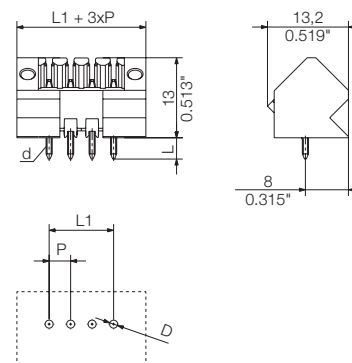
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with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

SL 3.50../135F

with screw flange



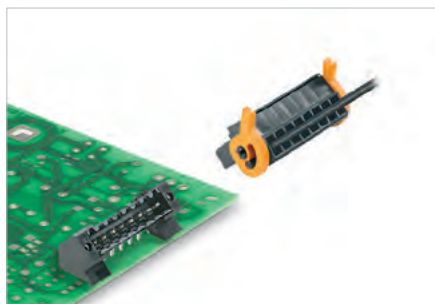
Dimensioned drawing



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.

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		
UL 94 flammability rating		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		

Product data

IEC: 320 V / 15 A

UL: 300 V / 10 A



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

Note:

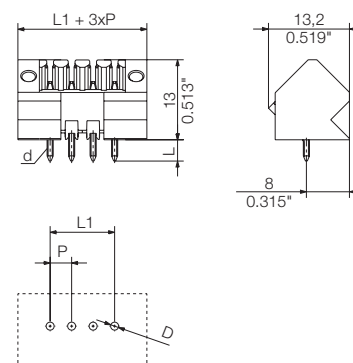
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-THR 3.50/./135F

with screw flange



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

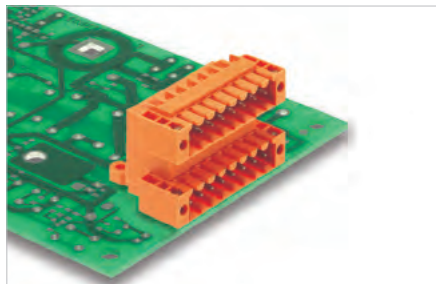
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Interlock		
	BL/SL 3.50 VR BK BX	1669300000
	BL/SL 3.50 VR OR BX	1669310000

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.

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		
UL 94 flammability rating		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		

Product data

IEC: 200 V / 10.5 A

UL: 300 V / 8 A



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

Note:

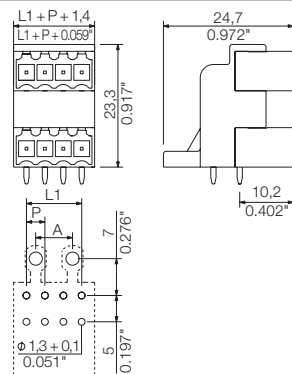
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with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

SLD 3.50/./90G

closed side



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

Ordering data

Solder pin length		3.2 mm		
Colour		Orange		
Pitch	3.50 mm		Qty.	Order No.
Pol.	L1	(inch)		
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

3.50

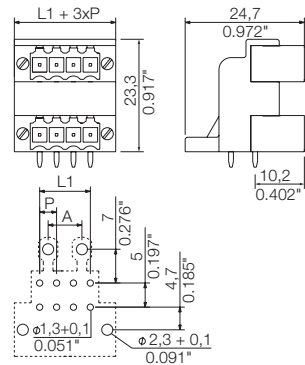
90°

SLD 3.50/.. /90F

with screw flange



Dimensioned drawing

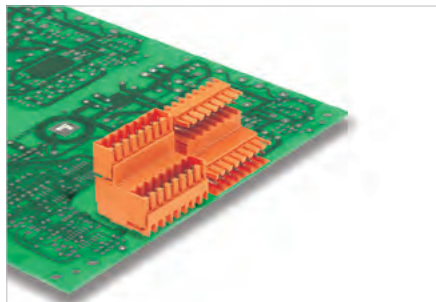


Ordering data

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:

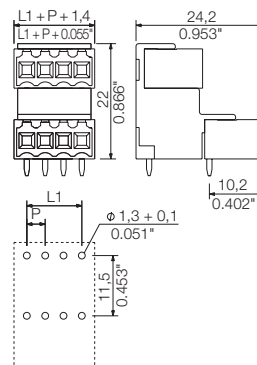
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with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

SLD 3.50V../90G

closed side



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		
UL 94 flammability rating		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

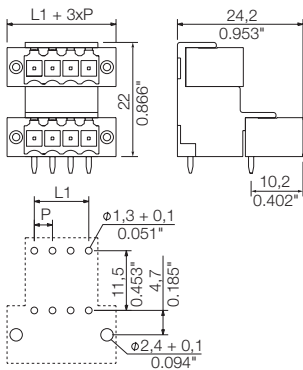
Solder pin length		3.2 mm		
Colour		Orange		
Pitch	3.50 mm		Qty.	Order No.
Pol.	L1	(inch)		
4	3.50	0.138	50	1642240000
6	7.00	0.276	50	1890600000
8	10.50	0.413	50	1642250000
10	14.00	0.551	50	1866770000
12	17.50	0.689	50	1642260000
14	21.00	0.827	20	1890610000
16	24.50	0.965	20	1642270000
18	28.00	1.102	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

with screw flange



Dimensioned drawing

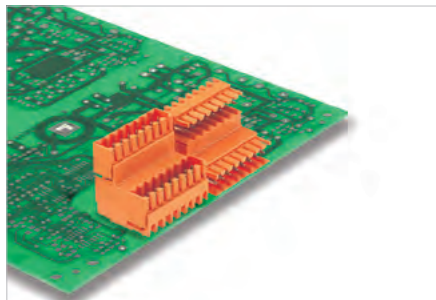


Ordering data

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

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.

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	
UL 94 flammability rating			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	

Product data

IEC: 200 V / 10.5 A

UL: 300 V / 8 A



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

Note:

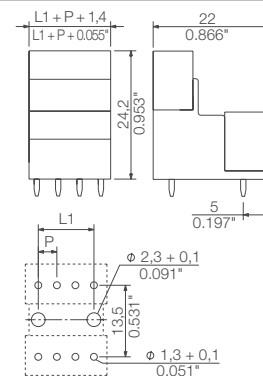
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with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

SLD 3.50V../180G

closed side



Dimensioned drawing



Ordering data

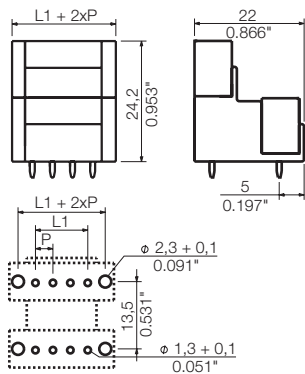
Solder pin length				3.2 mm
Colour				Orange
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	3.50	0.138	50	1641110000
6	7.00	0.276	50	1891190000
8	10.50	0.413	50	1641120000
10	14.00	0.551	50	1891200000
12	17.50	0.689	50	1641130000
16	24.50	0.965	20	1641140000
20	31.50	1.240	20	1641150000
24	38.50	1.516	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

with screw flange



Dimensioned drawing

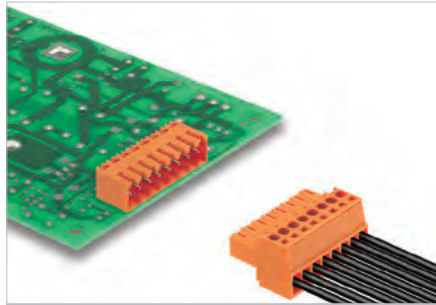


Ordering data

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

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

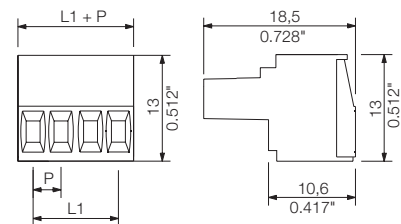
Note:

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

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	mm ²	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)	B C D	D
Rated voltage	V	300 300
Rated current	A	10 10
AWG conductor	AWG	28-14
CSA (Use Group)	B C D	D
Rated voltage	V	300 300
Rated current	A	10 10
AWG conductor	AWG	28-14
General data		
Type of insulation material		PBT
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

Accessories

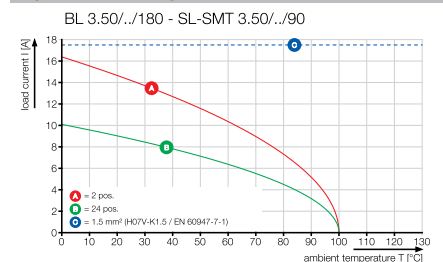
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BL SL 3.5 KO OR	1693430000
BL SL 3.5 KO SW	1610100000
Cover hood	
BL 3.50 AH03 BK BX	1745580000
BL 3.50 AH04 BK BX	1745590000
BL 3.50 AH05 BK BX	1745600000
BL 3.50 AH06 BK BX	1745610000
BL 3.50 AH07 BK BX	1745620000
BL 3.50 AH08 BK BX	1745630000
BL 3.50 AH09 BK BX	1745640000
BL 3.50 AH10 BK BX	1745650000
BL 3.50 AH11 BK BX	1745660000
BL 3.50 AH12 BK BX	1745670000
BL 3.50 AH13 BK BX	1745680000
BL 3.50 AH14 BK BX	1745690000
BL 3.50 AH15 BK BX	1745700000
BL 3.50 AH16 BK BX	1745710000
Strain relief	
BL 3.50 ZE03 BK BX	1627820000
BL 3.50 ZE03 OR BX	1629680000
BL 3.50 ZE08 OR BX	1629690000
Interlock	
BL/SL 3.50 VR BK BX	1669300000
BL/SL 3.50 VR OR BX	1669310000
Screwdriver	
SDIS 0.4X2.5X75	9008370000
SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length		Colour		Orange		Black	
Pitch	3.50 mm	Pol.	L1 (inch)	Qty.	Order No.	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 deratings curve

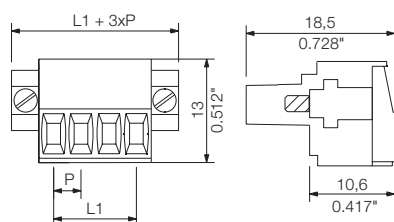


BL 3.50/./180F

with screw flange



Dimensioned drawing



Ordering data

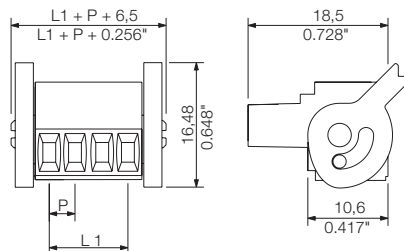
Solder pin length					
Colour			Orange	Black	
Pitch	3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1606640000	1615780000
3	7.00	0.276	100	1606650000	1615790000
4	10.50	0.413	100	1606660000	1615800000
5	14.00	0.551	50	1606670000	1615810000
6	17.50	0.689	50	1606680000	1615820000
7	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

with release lever



Dimensioned drawing



Ordering data

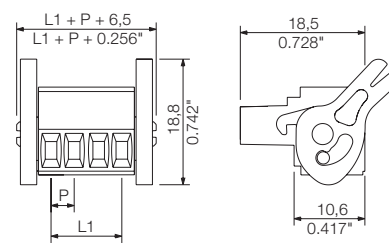
Solder pin length					
Colour			Orange	Black	
Pitch	3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1687650000	1687880000
3	7.00	0.276	100	1687660000	1687890000
4	10.50	0.413	100	1687670000	1687900000
5	14.00	0.551	50	1687680000	1687910000
6	17.50	0.689	50	1687690000	1687920000
7	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	36	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

with release latch



Dimensioned drawing



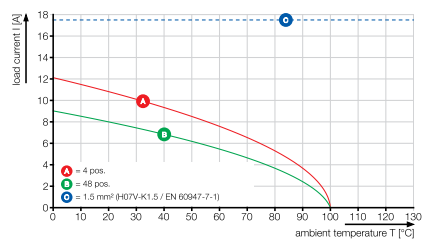
Ordering data

Solder pin length					
Colour		Orange			
Pitch	3.50 mm				
Pol.	L1 (inch)	Qty.	Order No.	Order No.	
2	3.50	0.138	100	1379600000	
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	36	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	

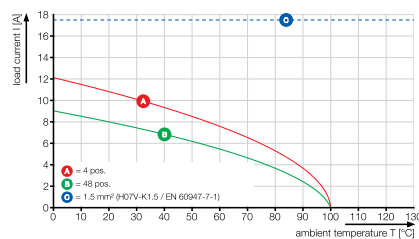
Compatible with SL-SMT 3.50/./90RF

Additional deratings curves

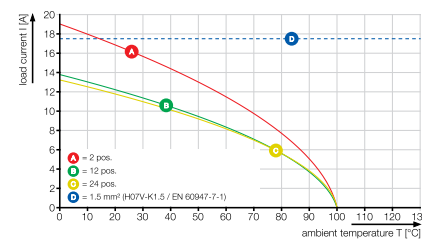
BL 3.50/./180 - SLD 3.50V/./90



BL 3.50/./180 - SLD 3.50V/./180

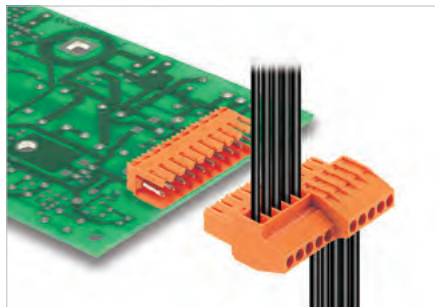


BL 3.50/./180 - SL 3.50V/./90



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 screw 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

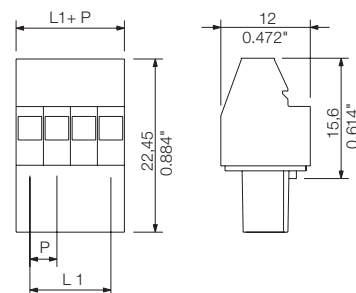
Note:

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

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	mm ²	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	II
Pollution severity		3	2
Rated voltage	V	160	320
Rated impulse voltage	kV	2.5	2.5
UL / CUL (Use Group)	B	C	D

Rated voltage	V	300	300
Rated current	A	8	8
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	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

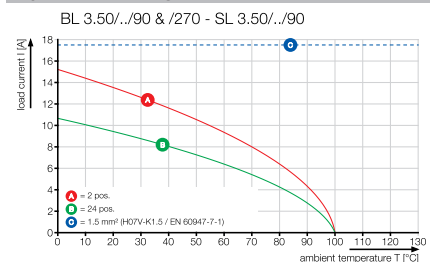
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Screwdriver		
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Soldier pin length		Colour		Orange		Black	
Pitch		3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.	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 deratings curve

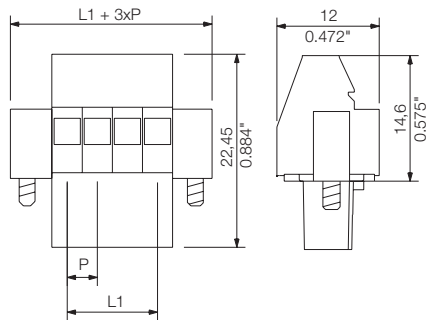


BL 3.50/./90F

with screw flange



Dimensioned drawing



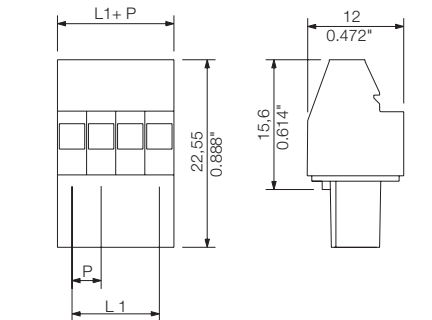
Ordering data

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

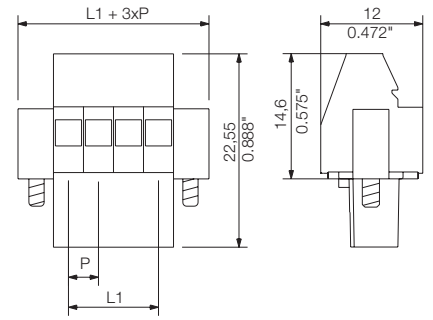
Solder pin length					
Colour			Orange		Black
Pitch 3.50 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1639470000	1639700000
3	7.00	0.276	100	1639480000	1639710000
4	10.50	0.413	100	1639490000	1639720000
5	14.00	0.551	50	1639500000	1639730000
6	17.50	0.689	50	1639510000	1639740000
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

with screw flange



Dimensioned drawing

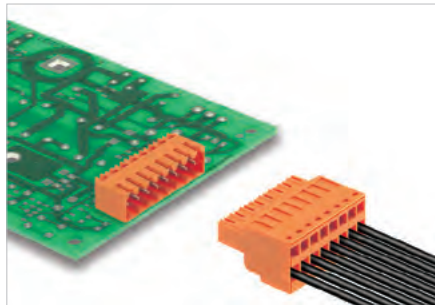


Ordering data

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

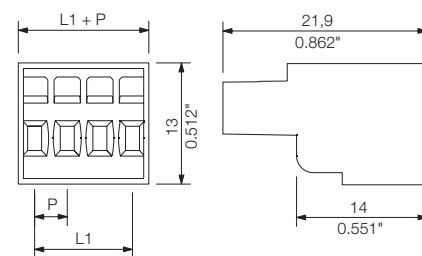
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Max. outer diameter of the conductor: 2.9 mm
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Crimp shape A for wire-end ferrules with crimping tools PZ 1.5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

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	mm ²	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
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	26-14	
CSA (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	26-14	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

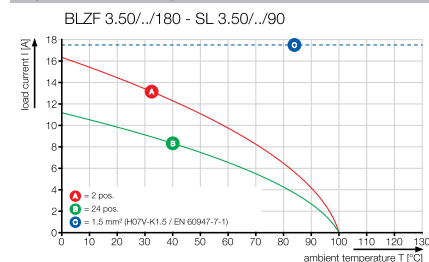
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Strain relief		
	BL 3.50 ZE03 BK BX	1627820000
	BL 3.50 ZE03 OR BX	1629680000
	BL 3.50 ZE08 OR BX	1629690000
Screwdriver		
	SDS 0.4X2.5X75	9009030000
Crimping tool		
	PZ 1.5	9005990000
	PZ 6/5	9011460000

Ordering data

Soldier 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 deratings curve

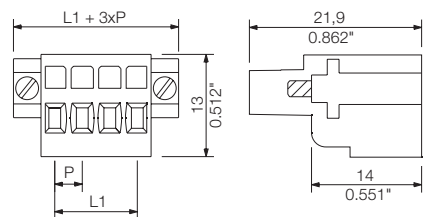


BLZF 3.50/./180F

with screw flange



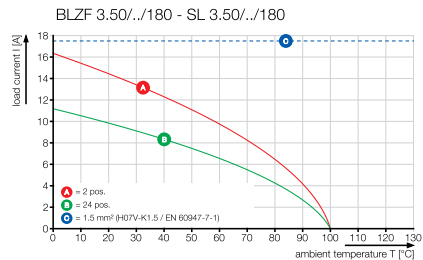
Dimensioned drawing



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 deratings curves

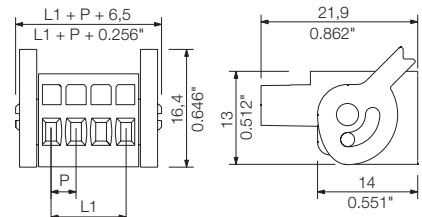


BLZF 3.50/./180LH

with release lever



Dimensioned drawing



Ordering data

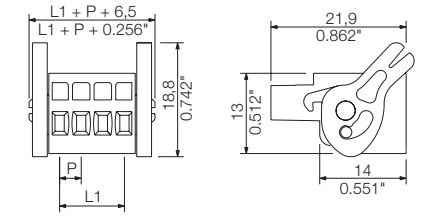
Solder pin length					
Colour			Orange		Black
Pitch		3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1691570000	1691800000
3	7.00	0.276	100	1691580000	1691810000
4	10.50	0.413	100	1691590000	1691820000
5	14.00	0.551	50	1691600000	1691830000
6	17.50	0.689	50	1691610000	1691840000
7	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

with release latch



Dimensioned drawing



Ordering data

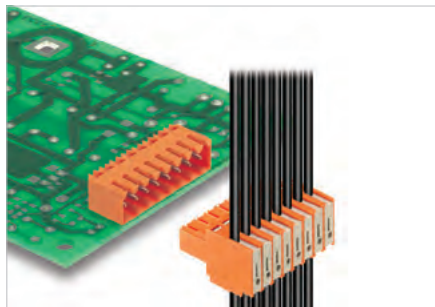
Solder pin length				
Colour			Orange	
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1379590000
3	7.00	0.276	100	1134450000
4	10.50	0.413	100	1134460000
5	14.00	0.551	50	1134470000
6	17.50	0.689	50	1134480000
7	21.00	0.827	50	1134490000
8	24.50	0.965	50	1134510000
9	28.00	1.102	50	1134520000
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

Compatible with SL-SMT 3.50/./90RF

Compatible with SL-SMT 3.50/./90RF

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 screw 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:

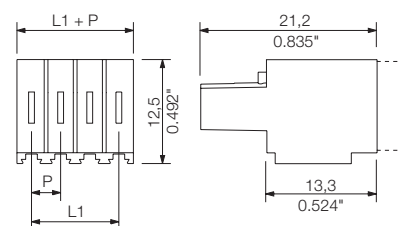
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- For IDC contact 0.5: cable acc. to DIN EN 60352-4
- AWG conductor: solid, 7 or 19 strands only
- Temperature range -20 to +80 °C
- BLIDC 3.5 and BLIDCB 3.5 conductors "solid"/"flexible" to DIN 47726
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

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	
Overtolerance category		III	II
Pollution severity		3	2
Rated voltage	V	160	250
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	
UL 94 flammability rating		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

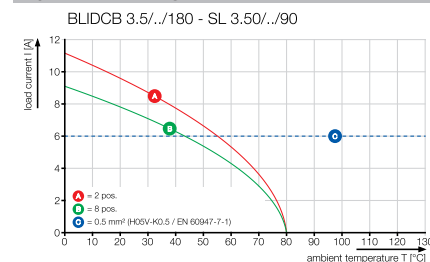
Note: Refer to the Accessories chapter for additional accessories.

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		
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

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 deratings curve

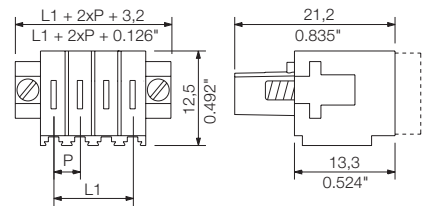


BLIDCB 3.50/.. /180F

Bus version; with screw flange



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

C



Technical data



3.50

180°

1.5 mm²

Note:

- with screw flange**



Note: Refer to the Accessories chapter for additional accessories

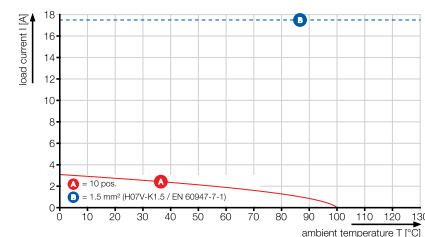


Solder pin length

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 deratings curve

BL-I/O 3.5/10/180 - SL 3.50/./90

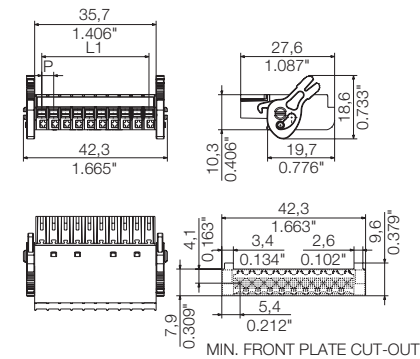


BL-I/O 3.50/10/180LR

with release latch



Dimensioned drawing



Ordering data

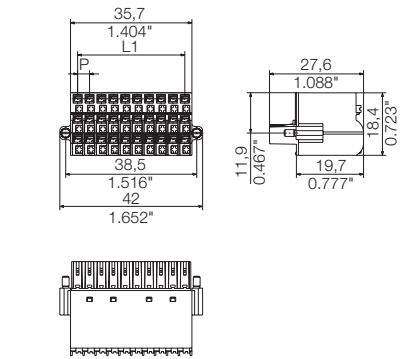
Solder pin length				
Colour				Black
Pitch 3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.
10	31.50	1.240	20	1000540000

BL-I/O 3.50/30/180F

with screw flange



Dimensioned drawing



Ordering data

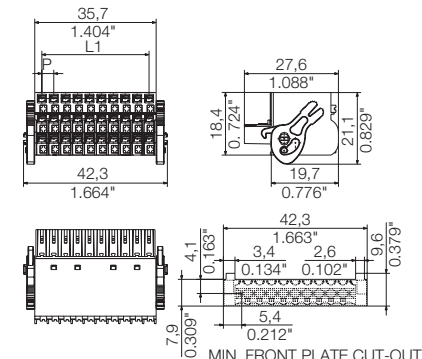
Solder pin length					
Colour				Light Grey	Black
Pitch		3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	Order No.
30	31.50	1.240	20	1965910000	1779920000

BL-I/O 3.50/30/180LR

with release latch



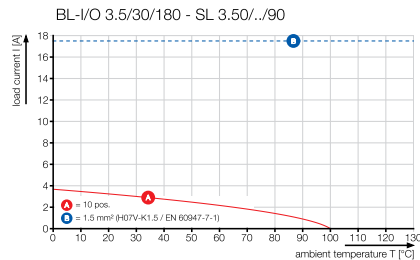
Dimensioned drawing



Ordering data

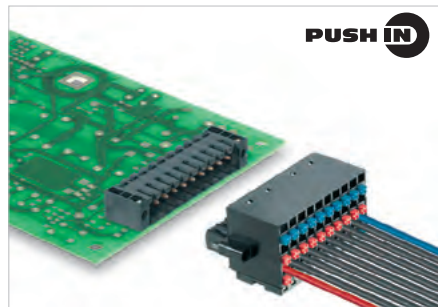
Solder pin length				
Colour				Black
Pitch 3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.
30	31.50	1.240	20	1000550000

Additional deratings curves



Connectors in 3.50 mm pitch Series BL/SL 3.50

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



PUSH IN

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 on 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	
Ferrule with plastic collar	mm²	0.2...0.75	
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	
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	24-16	
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	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
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 24 - 16



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

Note:

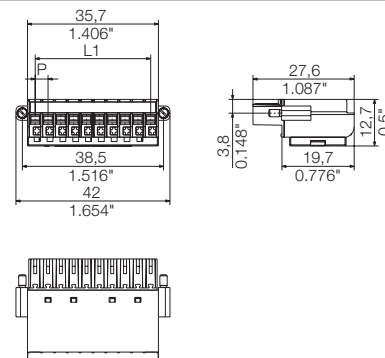
- LED operating voltage: 10 - 30V; LED operating current: 0.8mA at 24V
- Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.
- Total load-carrying capacity of the potential bridges when feeding 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. outer diameter of the 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

with screw flange



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

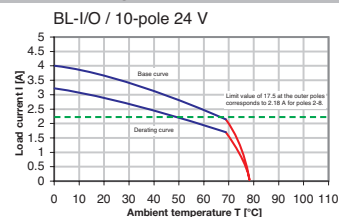
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Screwdriver		
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000
Crimping tool		
	PZ 1.5	9005990000
	PZ 6/5	9011460000

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 deratings curve



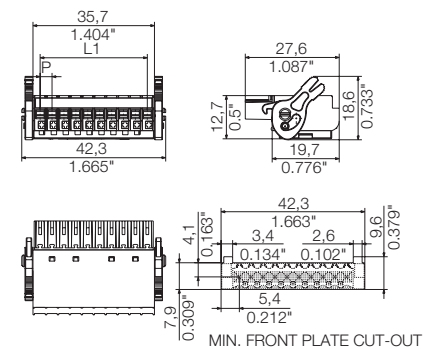
LED series resistors designed for 24 V

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

with release latch



Dimensioned drawing



Ordering data

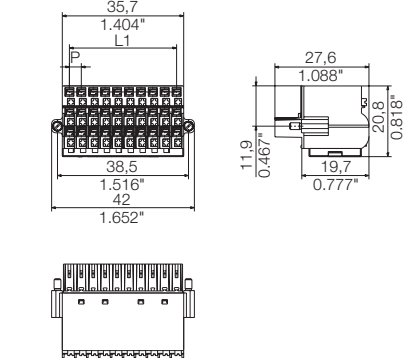
Solder pin length				
Colour				Black
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
10	31.50	1.240	20	1000560000

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

with screw flange



Dimensioned drawing



Ordering data

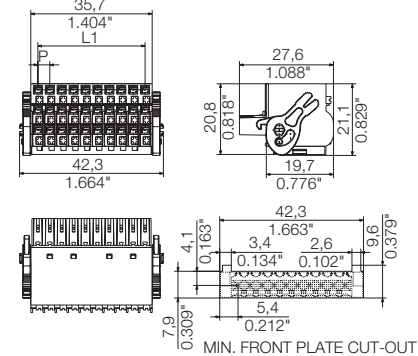
Solder pin length				
Colour				Light Grey
				Black
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
30	31.50	1.240	20	1965970000
				1789110000

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

with release latch



Dimensioned drawing



Ordering data

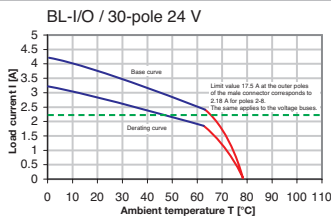
Solder pin length				
Colour				Black
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
30	31.50	1.240	20	1000570000

LED series resistors designed for 24 V

LED series resistors designed for 24 V

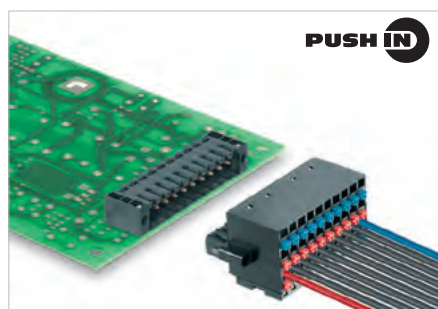
LED series resistors designed for 24 V

Additional deratings curves



Connectors in 3.50 mm pitch Series BL/SL 3.50

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



PUSH IN

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 on release lever (LR).

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...1.5
Solid core H05(07) V-U	mm ²	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
Ferrule with plastic collar	mm ²	0.2...0.75
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	mm ²	1
Overvoltage category	III	III II
Pollution severity	3	2 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	24-16
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
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
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 24 - 16



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

Note:

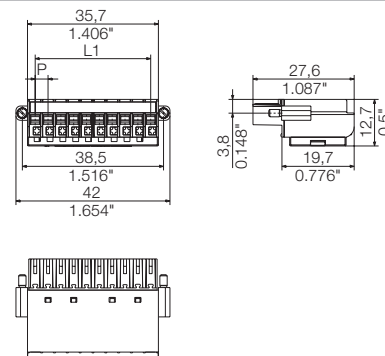
- LED operating voltage: 10 - 30V; LED operating current: 0.8mA at 24V
- Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.
- Total load-carrying capacity of the potential bridges when feeding 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. outer diameter of the 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

with screw flange



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

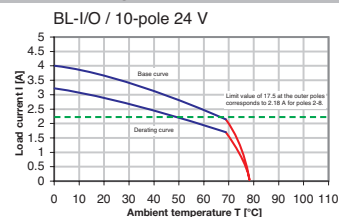
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Screwdriver		
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000
Crimping tool		
	PZ 1.5	9005990000
	PZ 6/5	9011460000

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 deratings curve



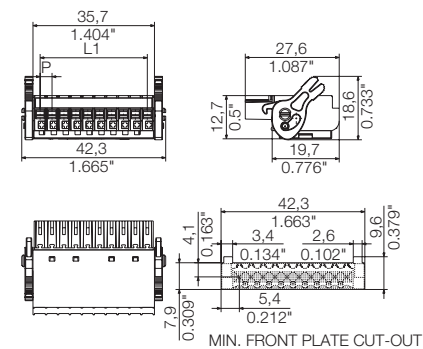
LED series resistors designed for 24 V

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

with release latch



Dimensioned drawing



Ordering data

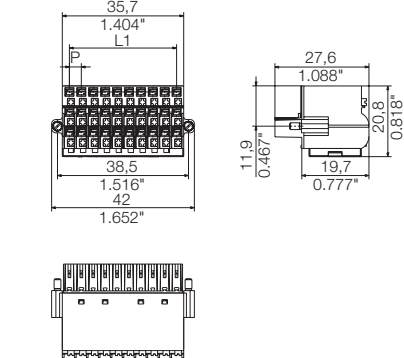
Solder pin length				
Colour				Black
Pitch 3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.
10	31.50	1.240	20	1000580000

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

with screw flange



Dimensioned drawing



Ordering data

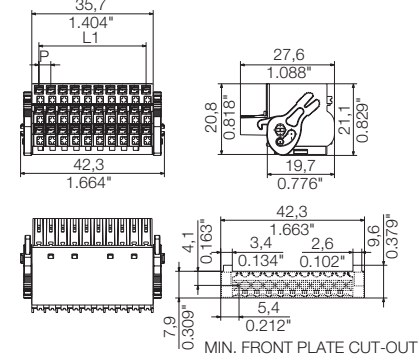
Solder pin length				
Colour				Light Grey Black
Pitch 3.50 mm				
Pol.	L1	(inch)	Qty.	Order No. Order No.
30	31.50	1.240	20	1965980000 1938020000

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

with release latch



Dimensioned drawing



Ordering data

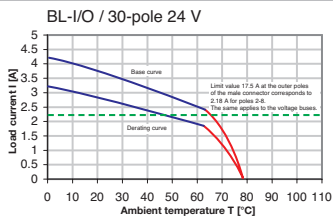
Solder pin length				
Colour				Black
Pitch 3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.
30	31.50	1.240	20	1000590000

LED series resistors designed for 24 V

LED series resistors designed for 24 V

LED series resistors designed for 24 V

Additional deratings curves



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

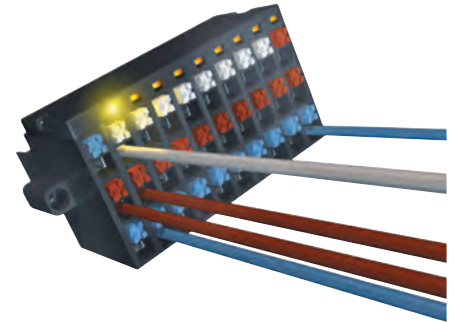
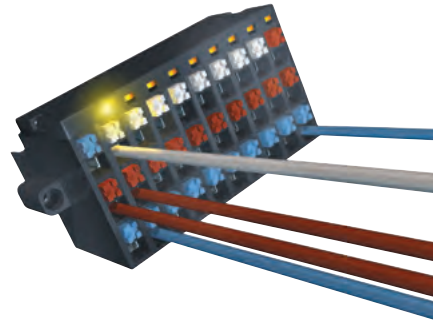
BL-I/O 3.5 30-pin

- 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

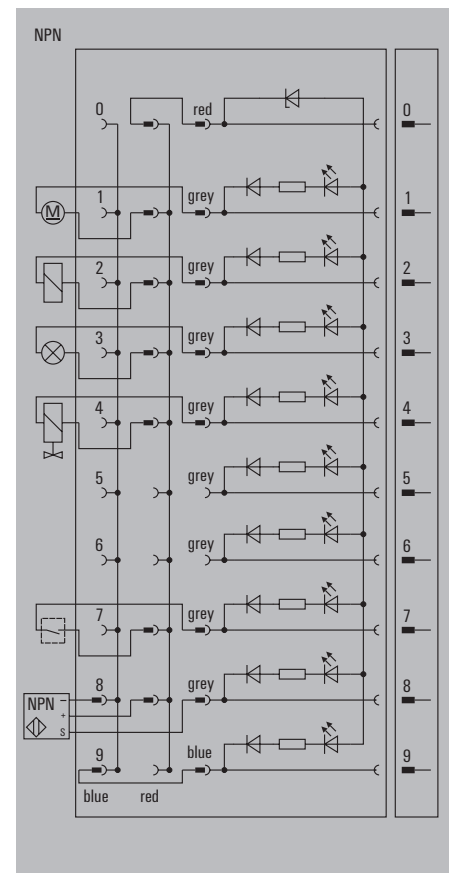
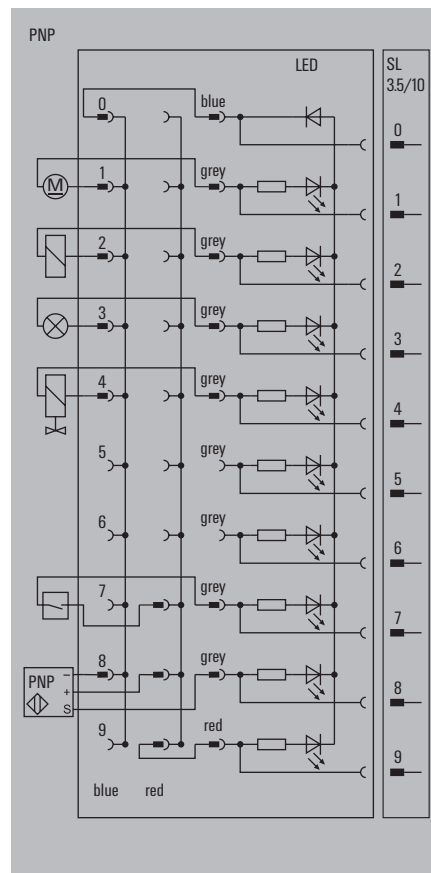
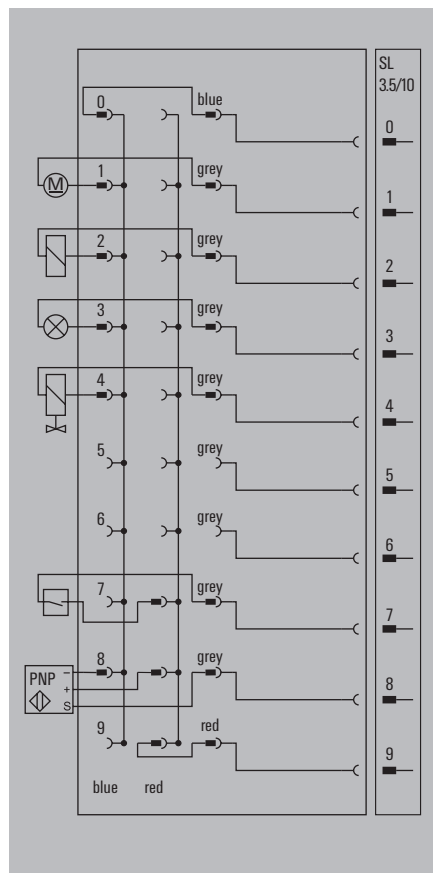
- Direct connection possibilities for sensors and actuators including their power supply
- Can be used for external or internal power supply sources

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

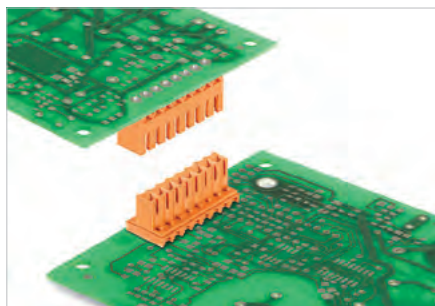
- Direct connection possibilities for sensors and actuators including their power supply
- Can be used for external or internal power supply sources

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



BLL 3.50../180



Inverted female header for:

- Finger-safety on the circuit board
- Board-to-board connection of modules (with SL/SL-SMT)
- Wave soldering
- Outlet direction: 180° (standing, perpendicular to PCB)

Product data

IEC: 320 V / 15.1 A

UL: 300 V / 9 A

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

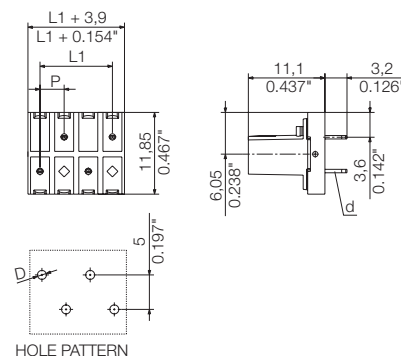
Note:

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

BLL 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	15.1	13
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
Rated voltage	V	300	300
Rated current	A	9	9
AWG conductor	AWG	-	-
CSA (Use Group)		B	C
Rated voltage	V	300	
Rated current	A	9	
AWG conductor	AWG	-	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8	
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	3.2 mm
Colour				Orange	Black
Pitch					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	75	1376310000	1376240000
3	7.00	0.276	50	1376320000	1376250000
4	10.50	0.413	38	1376330000	1376270000
5	14.00	0.551	30	1376340000	1376280000
6	17.50	0.689	25	1376430000	4309590000
7	21.00	0.827	22	1376350000	1376290000
8	24.50	0.965	19	1376440000	4349490000
9	28.00	1.102	17	1376450000	4286330000
10	31.50	1.240	15	1376470000	4342530000
11	35.00	1.378	14	1376370000	1376300000
12	38.50	1.516	13	1376480000	4286340000

Representative deratings curve

