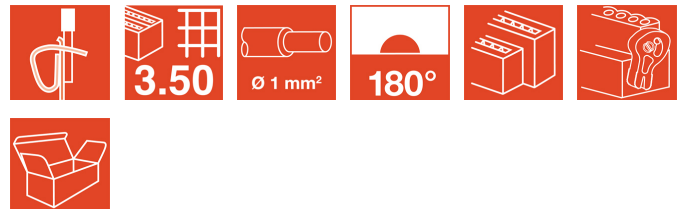


## B2L/S2L 3.50 - 2-row series B2L 3.50/24/180LH SN BK BX

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Female connectors with tension clamp connection system enable quick and simple wiring. These female header can be mounted side by side and therefore have a high connection density. The release lever simplifies the separation of the connection in confined spaces. The socket blocks provide space for labelling and can be coded.

- 0.20 - 1.0mm<sup>2</sup> (IEC) / 28 - 18 AWG (UL)
- 80 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

### General ordering data

Order No.	<a href="#">1748580000</a>
Type	B2L 3.50/24/180LH SN BK BX
Version	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 24, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm <sup>2</sup> , Box
Product data	IEC: 250 V / 10.3 A / 0.2 - 1 mm <sup>2</sup> UL: 300 V / 10 A / AWG 28 - AWG 16
EAN	4032248038299
Qty.	20 pc(s).
Packaging	Box

Creation date November 7, 2011 2:10:08 PM CET

Last update 28.10.2011 / We reserve the right to make technical changes.

## B2L/S2L 3.50 - 2-row series B2L 3.50/24/180LH SN BK BX

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## Technical data

### System parameters

Product family	B2L/S2L 3.50 - 2-row series	Conductor connection system	Tension clamp connection
Outgoing direction of conductor	180°	Pitch, in mm	3.5 mm
Pitch, in inches	0.138 inch	No. of poles	24
Number of rows	1	Stripping length	7 mm
L1 in mm	38.5 mm	L1 in inches	1.516 inch
Touch-safe protection acc. to DIN VDE 0470	IP 20	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch

### Material data

Insulating material	PBT	Colour	black
Colour chart	Similar to RAL 9011	Flammability class UL 94	V-0
CTI	≥ 200	Contact material	Copper alloy
Contact surface	tinned	Continuous operating temp., min.	-25 °C
Continuous operating temp., max.	100 °C		

### Connectable conductors

Clamping range, rated connection, min.	0.08 mm²	Clamping range, rated connection, max.	1 mm²
Wire connection cross section AWG, min.	AWG 28	Wire connection cross section AWG, max.	AWG 18
Solid, min. H05(07) V-U	0.2 mm²	Solid, max. H05(07) V-U	1 mm²
Flexible, min. H05(07) V-K	0.2 mm²	Flexible, max. H05(07) V-K	1 mm²
w. wire end ferrule, DIN 46228 pt 1, min.	0.13 mm²	w. wire end ferrule, DIN 46228 pt 1, max.	0.34 mm²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.13 mm²	w. plastic collar ferrule, DIN 46228 pt 4, max.	0.34 mm²

### DIN IEC rating data

Rated current, min. no. of poles (Tu=20°C)	10.3 A	Rated current, max. no. of poles (Tu=20°C)	8.7 A
Rated current, number of poles (Tu=40°C), min	8.9 A	Rated current, number of poles (Tu=40°C), max.	7.4 A
Rated voltage for surge voltage class / pollution degree II/2	250 V	Rated voltage for surge voltage class / pollution degree III/2	160 V
Rated voltage for surge voltage class / pollution degree III/3	80 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV
Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV	Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV
Short-time withstand current resistance	3 x 1s with 77 A		

### CSA rating data

Rated voltage (Use group B)	300 V	Rated current (use group B)	5 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 18

### UL 1059 rating data

Rated voltage (use group B)	300 V	Rated current (use group B)	10 A
Rated voltage (use group D)	300 V	Rated current (use group D)	10 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 16

### Classifications

ETIM 4.0	EC002637	UNSPSC	30-21-18-10
eClass 4.1	27-26-07-01	eClass 5.1	27-26-07-01
eClass 6.0	27-26-07-04		

## B2L/S2L 3.50 - 2-row series B2L 3.50/24/180LH SN BK BX

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## Technical data

### Approvals

Approvals	CSA; UR; ROHS
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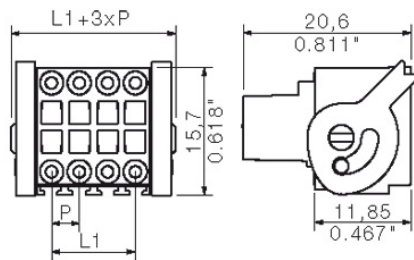
### Notes

- |       |  |
|-------|--|
| Notes | <ul style="list-style-type: none"><li>• Additional colours on request</li><li>• Gold-plated contact surfaces on request</li><li>• Rated current related to rated cross-section and min. No. of poles.</li><li>• Wire end ferrule with plastic collar to DIN 46228/4</li><li>• Wire end ferrule without plastic collar to DIN 46228/1</li><li>• P on drg. = pitch</li><li>• We recommend crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for the larger wire cross-sections.</li><li>• 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.</li></ul> |
|-------|--|

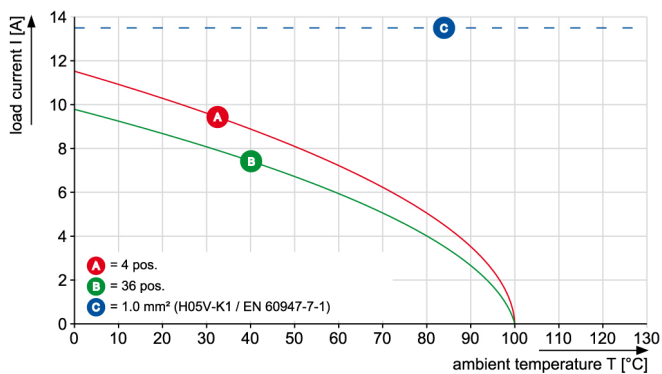
## B2L/S2L 3.50 - 2-row series B2L 3.50/24/180LH SN BK BX

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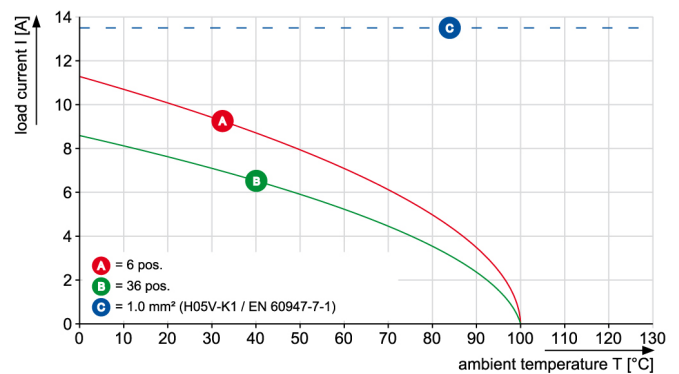
## Drawings



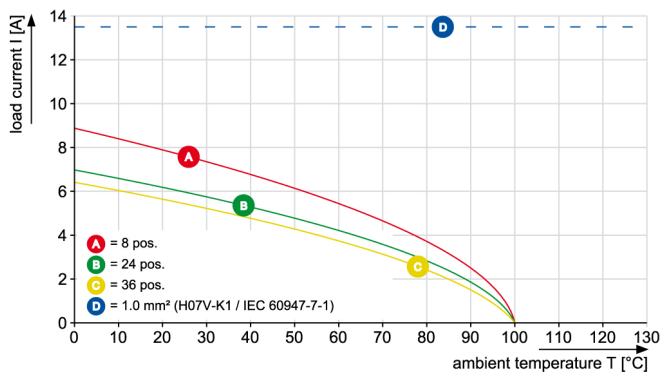
B2L 3.50/./180 - S2L-SMT 3.50/./90



B2L 3.50/./180 - S2L 3.50/./90



B2L 3.50/./180 - S2LD-THR 3.50/./90



## B2L/S2L 3.50 - 2-row series B2L 3.50/24/180LH SN BK BX

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### Mating connector (conditionally pluggable)

#### S2L 3.5/180G



Straight two-tier pin header available as closed-sided or with flange (open-sided pin headers on request). Pin headers with 3.5mm pins are designed for wave soldering and are packaged in a box. They can be screwed on to the PCB. The pin headers provide space for labelling and can be coded.

- 80 V (IEC) / 150 V (UL)
- 9 A (IEC) / 8 A (UL)

#### General ordering data

Order No.	Type	Version	Product data	EAN	Qty.	Packaging
<a href="#">1729040000</a>	S2L 3.50/24/180G 3.5SN BK BX	PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 24, 180°, Solder pin length: 3.5 mm, tinned, black, Box	IEC: 250 V / 10 A UL: 150 V / 10 A	4032248040476	20 pc(s).	Box
<a href="#">1728880000</a>	S2L 3.50/24/180G 3.5SN OR BX	PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 24, 180°, Solder pin length: 3.5 mm, tinned, orange, Box	IEC: 250 V / 10 A UL: 150 V / 10 A	4032248040315	20 pc(s).	Box

#### S2L-SMT 3.5/90G Tape



High-temperature-resistant, straight, 2-tier male connector for all common soldering methods. Optimised for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors can be labelled and coded.

- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

#### General ordering data

Order No.	Type	Version	Product data	EAN	Qty.	Packaging
<a href="#">1802190000</a>	S2L-SMT 3.50/24/90G 3.2SN BK RL	PCB plug-in connector, male header, closed side, Reflow solder connection, 3.50 mm, No. of poles: 24, 90°, Solder pin length: 3.2 mm, tinned, black, Tape	IEC: 160 V / 10 A UL: 150 V / 10 A	4032248255528	235 pc(s).	Tape

## B2L/S2L 3.50 - 2-row series B2L 3.50/24/180LH SN BK BX

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### Mating connector (conditionally pluggable)

#### S2L-SMT 3.5/180 Box



High-temperature-resistant, straight, 2-tier male connector for all common soldering methods. Optimized for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers can be labelled and coded. (Packaging in tape on request)

- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

#### General ordering data

Order No.	Type	Version	Product data	EAN	Qty.	Packaging
<a href="#">1794780000</a>	S2L-SMT 3.50/24/180 3.5SN BK BX	PCB plug-in connector, male header, open side, Reflow solder connection, 3.50 mm, No. of poles: 24, 180°, Solder pin length: 3.5 mm, tinned, Box	IEC: 160 V / 10 A UL: 150 V / 10 A	4032248231966	20 pc(s).	Box

#### S2L-SMT 3.5/90 BOX



High-temperature-resistant, straight, 2-tier pin header for all common soldering methods. Optimized for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. These pin headers can be labelled and coded. (Packaging in tape on request)

- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

#### General ordering data

Order No.	Type	Version	Product data	EAN	Qty.	Packaging
<a href="#">1794460000</a>	S2L-SMT 3.50/24/90 3.2SN BK BX	PCB plug-in connector, male header, open side, Reflow solder connection, 3.50 mm, No. of poles: 24, 90°, Solder pin length: 3.2 mm, tinned, black, Box	IEC: 160 V / 10 A UL: 150 V / 10 A	4032248231645	20 pc(s).	Box

## B2L/S2L 3.50 - 2-row series B2L 3.50/24/180LH SN BK BX

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### Mating connector (conditionally pluggable)

#### S2L-SMT 3.5/180G Tape



High-temperature-resistant, straight, 2-tier male connector for all common soldering methods. Optimised for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors can be labelled and coded.

- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

#### General ordering data

Order No.	Type	Version	Product data	EAN	Qty.	Packaging
<a href="#">1802220000</a>	S2L-SMT 3.50/24/180G 3.5SN BK RL	PCB plug-in connector, male header, closed side, Reflow solder connection, 3.50 mm, No. of poles: 24, 180°, Solder pin length: 3.5 mm, tinned, black, Tape	IEC: 160 V / 10 A UL: 150 V / 10 A	4032248255542	175 pc(s).	Tape

#### S2L-SMT 3.5/90G Box



High-temperature-resistant, straight, 2-tier male connector for all common soldering methods. Optimised for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors can be labelled and coded.

- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

#### General ordering data

Order No.	Type	Version	Product data	EAN	Qty.	Packaging
<a href="#">1794300000</a>	S2L-SMT 3.50/24/90G 3.2SN BK BX	PCB plug-in connector, male header, closed side, Reflow solder connection, 3.50 mm, No. of poles: 24, 90°, Solder pin length: 3.2 mm, tinned, black, Box	IEC: 160 V / 10 A UL: 150 V / 10 A	4032248231461	20 pc(s).	Box

## B2L/S2L 3.50 - 2-row series B2L 3.50/24/180LH SN BK BX

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### Mating connector (conditionally pluggable)

#### S2L-SMT 3.5/180G Box



High-temperature-resistant, straight, 2-tier male connector for all common soldering methods. Optimised for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors can be labelled and coded.

- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

#### General ordering data

Order No.	Type	Version	Product data	EAN	Qty.	Packaging
<a href="#">1794620000</a>	S2L-SMT 3.50/24/180G 3.5SN BK BX	PCB plug-in connector, male header, closed side, Reflow solder connection, 3.50 mm, No. of poles: 24, 180°, Solder pin length: 3.5 mm, tinned, black, Box	IEC: 160 V / 10 A UL: 150 V / 10 A	4032248231805	20 pc(s).	Box

#### S2L 3.5/180F



Straight two-tier pin header available as closed-sided or with flange (open-sided pin headers on request). Pin headers with 3.5mm pins are designed for wave soldering and are packaged in a box. They can be screwed on to the PCB. The pin headers provide space for labelling and can be coded.

- 80 V (IEC) / 150 V (UL)
- 9 A (IEC) / 8 A (UL)

#### General ordering data

Order No.	Type	Version	Product data	EAN	Qty.	Packaging
<a href="#">1729520000</a>	S2L 3.50/24/180F 3.5SN OR BX	PCB plug-in connector, male header, Flange, Solder connection, 3.50 mm, No. of poles: 24, 180°, Solder pin length: 3.5 mm, tinned, orange, Box	IEC: 250 V / 10 A UL: 150 V / 10 A	4032248040926	20 pc(s).	Box
<a href="#">1729680000</a>	S2L 3.50/24/180F 3.5SN BK BX	PCB plug-in connector, male header, Flange, Solder connection, 3.50 mm, No. of poles: 24, 180°, Solder pin length: 3.5 mm, tinned, black, Box	IEC: 250 V / 10 A UL: 150 V / 10 A	4032248041084	20 pc(s).	Box



## B2L/S2L 3.50 - 2-row series B2L 3.50/24/180LH SN BK BX

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## Mating connector (conditionally pluggable)

### S2L 3.5/90F



Angled, two-tier pin header available as closed-sided or with flange (open-sided pin headers on request). Pin headers with 3.5mm pins are designed for wave soldering and are packaged in a box. They can be screwed on to the PCB. The pin headers provide space for labelling and can be coded.

- 80 V (IEC) / 150 V (UL)
- 9 A (IEC / 8 A (UL)

### General ordering data

Order No.	Type	Version	Product data	EAN	Qty.	Packaging
<a href="#">1728560000</a>	S2L 3.50/24/90F 3.5SN OR BX	PCB plug-in connector, male header, Flange, Solder connection, 3.50 mm, No. of poles: 24, 90°, Solder pin length: 3.5 mm, tinned, orange, Box	IEC: 250 V / 10 A UL: 150 V / 10 A	4032248040025	20 pc(s).	Box
<a href="#">1728720000</a>	S2L 3.50/24/90F 3.5SN BK BX	PCB plug-in connector, male header, Flange, Solder connection, 3.50 mm, No. of poles: 24, 90°, Solder pin length: 3.5 mm, tinned, black, Box	IEC: 250 V / 10 A UL: 150 V / 10 A	4032248040186	20 pc(s).	Box

### S2L 3.5/90G



Angled, two-tier pin header available as closed-sided or with flange (open-sided pin headers on request). Pin headers with 3.5mm pins are designed for wave soldering and are packaged in a box. They can be screwed on to the PCB. The pin headers provide space for labelling and can be coded.

- 80 V (IEC) / 150 V (UL)
- 9 A (IEC / 8 A (UL)

### General ordering data

Order No.	Type	Version	Product data	EAN	Qty.	Packaging
<a href="#">1728080000</a>	S2L 3.50/24/90G 3.5SN BK BX	PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 24, 90°, Solder pin length: 3.5 mm, tinned, black, Box	IEC: 250 V / 10 A UL: 150 V / 10 A	4032248039579	20 pc(s).	Box
<a href="#">1727920000</a>	S2L 3.50/24/90G 3.5SN OR BX	PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 24, 90°, Solder pin	IEC: 250 V / 10 A UL: 150 V / 10 A	4032248039418	20 pc(s).	Box

**B2L/S2L 3.50 - 2-row series**  
**B2L 3.50/24/180LH SN BK BX**

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## Mating connector (conditionally pluggable)

length: 3.5 mm, tinned, orange,  
Box

## B2L/S2L 3.50 - 2-row series B2L 3.50/24/180LH SN BK BX

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## Mating connector (fully pluggable)

### S2L-SMT 3.5/180LF Box



High-temperature-resistant, straight, 2-tier male connector for all common soldering methods. Optimised for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors can be labelled and coded.

- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

### General ordering data

Order No.	Type	Version	Product data	EAN	Qty.	Packaging
<a href="#">1795290000</a>	S2L-SMT 3.50/24/180LF 3.5SN BK BX	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 3.50 mm, No. of poles: 24, 180°, Solder pin length: 3.5 mm, tinned, black, Box	IEC: 160 V / 10 A UL: 150 V / 10 A	4032248232802	20 pc(s).	Box

### S2L-SMT 3.5/90LF Box



High-temperature-resistant, straight, 2-tier male connector for all common soldering methods. Optimised for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors can be labelled and coded.

- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

### General ordering data

Order No.	Type	Version	Product data	EAN	Qty.	Packaging
<a href="#">1794950000</a>	S2L-SMT 3.50/24/90LF 3.2SN BK BX	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 3.50 mm, No. of poles: 24, 90°, Solder pin length: 3.2 mm, tinned, Box	IEC: 160 V / 10 A UL: 150 V / 10 A	4032248232406	20 pc(s).	Box

