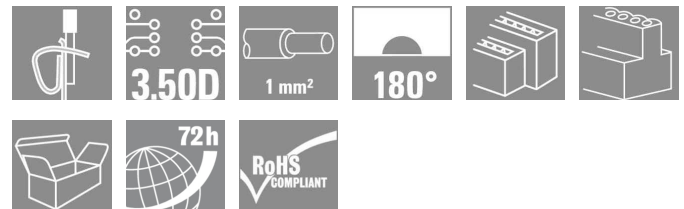


OMNIMATE Signal - series B2L/S2L 3.50 - 2-row B2L 3.50/16/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
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Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com



Component density redefined: the future standard for signal connection

Maximum connection density in the smallest of spaces - the 2-row B2L raises the bar higher for standard sensor cables up to 1 mm² and bridges the gap between insufficient space and more functions.

The result is a connecting solution for standard industrial cables with 1.75 pitch - 30% smaller than an equivalent solution with 2.5 pitch and with 140% the robustness of 3.5 pitch

Dimensions: double the connection density with 3.5mm pitch size

Connection system: tried and tested maintenance-free Weidmüller tension clamp connection

Connection data / Performance:

- 0.20 - 1.0mm² (IEC) / 28 - 18 AWG (UL)
- 80 V / 10 A (IEC) / 150 V / 10 A (UL)
- No. of poles: 4 to 36

The basic application advantages:

Efficient - maximum component density on the PCB

Suitable for industrial use - minimum dimensions, maximum robustness

Process-optimised - automatic configuration and reflow solders, rapid connection

User-friendly - patented release lever for the easy release of larger numbers of poles

Application-oriented: easy labelling and reliable coding despite compact dimensions

Miniaturisation is more than just a larger number of functions within a small space:

Every reduction in size decreases space requirements and the overall system costs less for the end customer.

Weidmüller fulfils a growing demand in the engineering and industrial automation sectors.

General ordering data

| | |
|--------------|--|
| Order No. | 1727610000 |
| Type | B2L 3.50/16/180 SN OR BX |
| Version | PCB plug-in connector, female plug, 3.50 mm, No. of poles: 16, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box |
| GTIN (EAN) | 4032248036769 |
| Qty. | 50 pc(s). |
| Product data | IEC: 200 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16 |
| Packaging | Box |

Creation date June 25, 2013 12:42:09 AM CEST

**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
B2L 3.50/16/180 SN OR BX**

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Technical data**Dimensions and weights**

| | |
|------------|--------|
| Net weight | 8.13 g |
|------------|--------|

System parameters

| | | | |
|--|---|--|--------------------------|
| Product family | OMNIMATE Signal - series B2L/S2L 3.50 - 2-row | Wire connection method | Tension clamp connection |
| Conductor outlet direction | 180° | Pitch in mm (P) | 3.5 mm |
| Pitch in inches (P) | 0.138 inch | No. of poles | 16 |
| Number of rows | 1 | Stripping length | 7 mm |
| L1 in mm | 24.5 mm | L1 in inches | 0.965 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 | Orange |
| Colour chart (similar) | RAL 2000 | UL 94 flammability rating | V-0 |
| Contact material | Cu-Leg | Contact surface | tinned |
| Continuous operating temp., min. | -25 °C | Continuous operating temp., max. | 100 °C |


Connectable conductors

| | | | |
|---|----------------------|---|----------------------|
| Clamping range, rated connection, min. | 0.08 mm ² | Clamping range, rated connection, max. | 1 mm ² |
| Wire connection cross section AWG, min. | AWG 28 | Wire connection cross section AWG, max. | AWG 18 |
| Solid, min. H05(07) V-U | 0.2 mm ² | Solid, max. H05(07) V-U | 1 mm ² |
| Flexible, min. H05(07) V-K | 0.2 mm ² | Flexible, max. H05(07) V-K | 1 mm ² |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.13 mm ² | w. wire end ferrule, DIN 46228 pt 1, max. | 0.34 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.13 mm ² | w. plastic collar ferrule, DIN 46228 pt 4, max. | 0.34 mm ² |

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 | 200 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

| | | | |
|-------------------------------|---|-------------------------------|--------|
| Institute (CSA) |  | 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 | | |

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B2L 3.50/16/180 SN OR BX**

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Technical data**UL 1059 rating data**

Institute (UR)



Rated voltage (use group B)

300 V

Rated current (use group B)

10 A

Rated voltage (use group C)

50 V

Rated current (use group C)

10 A

Wire cross-section, AWG, min.

AWG 28

Wire cross-section, AWG, max.

AWG 16

Classifications

UNSPSC

30-21-18-10

eClass 4.1

27-26-07-01

eClass 5.1

27-26-07-01

eClass 6.2

27-26-07-04

eClass 7.1

27-44-04-02

Notes

Notes

- 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
- 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.
- 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.

Approvals

Approvals



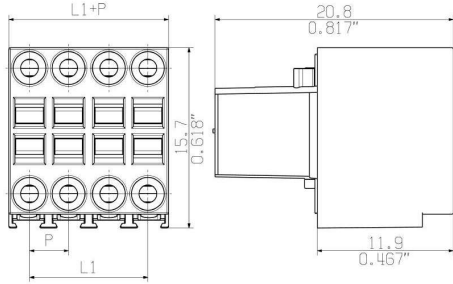
ROHS

Conform

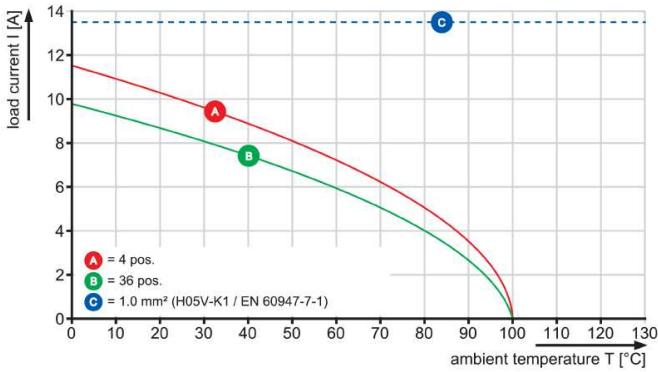
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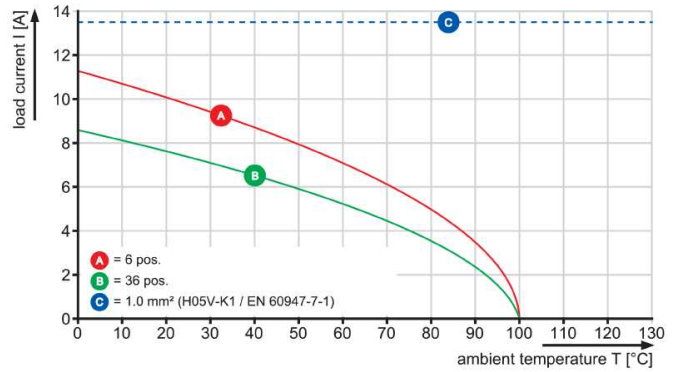
Drawings



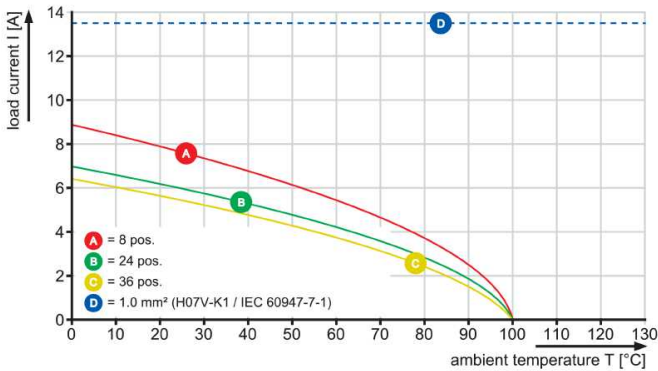
B2L 3.50/./180 - S2L-SMT 3.50/./90



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



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



**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
B2L 3.50/16/180 SN OR BX**

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Mating connector (fully pluggable)
S2L-SMT 3.50/90G 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 | GTIN (EAN) | Qty. | Product data | Packaging |
|----------------------------|---------------------------------|---|---------------|------------|---------------------------------------|-----------|
| 1807520000 | S2L-SMT 3.50/16/90G 3.2SN BK RL | PCB plug-in connector, male header, closed side, Reflow solder connection, 3.50 mm, No. of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Tape | 4032248278817 | 235 pc(s). | IEC: 160 V / 10 A UL: 150 V / 10 A | Tape |

S2L-SMT 3.50/180G 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.

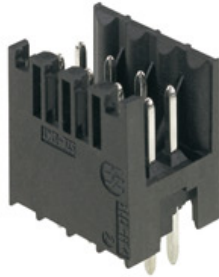
- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

General ordering data

| Order No. | Type | Version | GTIN (EAN) | Qty. | Product data | Packaging |
|----------------------------|----------------------------------|--|---------------|------------|---------------------------------------|-----------|
| 1807830000 | S2L-SMT 3.50/16/180G 3.5SN BK RL | PCB plug-in connector, male header, closed side, Reflow solder connection, 3.50 mm, No. of poles: 16, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Tape | 4032248279531 | 175 pc(s). | IEC: 160 V / 10 A UL: 150 V / 10 A | Tape |

**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
B2L 3.50/16/180 SN OR BX**

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Mating connector (fully pluggable)
S2L-SMT 3.50/180 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 | GTIN (EAN) | Qty. | Product data | Packaging |
|----------------------------|---------------------------------|---|---------------|-----------|---------------------------------------|-----------|
| 1794740000 | S2L-SMT 3.50/16/180 3.5SN BK BX | PCB plug-in connector, male header, open side, Reflow solder connection, 3.50 mm, No. of poles: 16, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Box | 4032248231928 | 50 pc(s). | IEC: 160 V / 10 A UL: 150 V / 10 A | Box |

S2L-SMT 3.50/90 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 | GTIN (EAN) | Qty. | Product data | Packaging |
|----------------------------|--------------------------------|--|---------------|-----------|---------------------------------------|-----------|
| 1794420000 | S2L-SMT 3.50/16/90 3.2SN BK BX | PCB plug-in connector, male header, open side, Reflow solder connection, 3.50 mm, No. of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box | 4032248231607 | 50 pc(s). | IEC: 160 V / 10 A UL: 150 V / 10 A | Box |

**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
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Mating connector (fully pluggable)
S2L 3.50/90G


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 | GTIN (EAN) | Qty. | Product data | Packaging |
|----------------------------|-----------------------------|---|---------------|-----------|---------------------------------------|-----------|
| 1728040000 | S2L 3.50/16/90G 3.5SN BK BX | PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 16, 90°, Solder pin length (l): 3.5 mm, tinned, Black, Box | 4032248039531 | 50 pc(s). | IEC: 250 V / 10 A UL: 150 V / 10 A | Box |
| 1727880000 | S2L 3.50/16/90G 3.5SN OR BX | PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 16, 90°, Solder pin length (l): 3.5 mm, tinned, Orange, Box | 4032248036837 | 50 pc(s). | IEC: 250 V / 10 A UL: 150 V / 10 A | Box |

S2L-SMT 3.50/90G 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 | GTIN (EAN) | Qty. | Product data | Packaging |
|----------------------------|---------------------------------|---|---------------|-----------|---------------------------------------|-----------|
| 1794260000 | S2L-SMT 3.50/16/90G 3.2SN BK BX | PCB plug-in connector, male header, closed side, Reflow solder connection, 3.50 mm, No. of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box | 4032248231416 | 50 pc(s). | IEC: 160 V / 10 A UL: 150 V / 10 A | Box |

**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
B2L 3.50/16/180 SN OR BX**

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Mating connector (fully pluggable)
S2L-SMT 3.50/180G 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 | GTIN (EAN) | Qty. | Product data | Packaging |
|----------------------------|----------------------------------|---|---------------|-----------|---------------------------------------|-----------|
| 1794580000 | S2L-SMT 3.50/16/180G 3.5SN BK BX | PCB plug-in connector, male header, closed side, Reflow solder connection, 3.50 mm, No. of poles: 16, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Box | 4032248231768 | 50 pc(s). | IEC: 160 V / 10 A UL: 150 V / 10 A | Box |

S2L 3.50/180G


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 | GTIN (EAN) | Qty. | Product data | Packaging |
|----------------------------|------------------------------|---|---------------|-----------|---------------------------------------|-----------|
| 1728840000 | S2L 3.50/16/180G 3.5SN OR BX | PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 16, 180°, Solder pin length (l): 3.5 mm, tinned, Orange, Box | 4032248036882 | 50 pc(s). | IEC: 250 V / 10 A UL: 150 V / 10 A | Box |
| 1729000000 | S2L 3.50/16/180G 3.5SN BK BX | PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 16, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Box | 4032248040438 | 50 pc(s). | IEC: 250 V / 10 A UL: 150 V / 10 A | Box |

**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
B2L 3.50/16/180 SN OR BX**

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Mating connector (conditionally pluggable)
S2L-SMT 3.50/90LF 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 | GTIN (EAN) | Qty. | Product data | Packaging |
|----------------------------|----------------------------------|--|---------------|-----------|---------------------------------------|-----------|
| 1794910000 | S2L-SMT 3.50/16/90LF 3.2SN BK BX | PCB plug-in connector, male header, Solder flange, Reflow solder connection, 3.50 mm, No. of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box | 4032248232369 | 50 pc(s). | IEC: 160 V / 10 A UL: 150 V / 10 A | Box |

S2L-SMT 3.50/180LF 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 | GTIN (EAN) | Qty. | Product data | Packaging |
|----------------------------|-----------------------------------|---|---------------|-----------|---------------------------------------|-----------|
| 1795250000 | S2L-SMT 3.50/16/180LF 3.5SN BK BX | PCB plug-in connector, male header, Solder flange, Reflow solder connection, 3.50 mm, No. of poles: 16, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Box | 4032248232765 | 50 pc(s). | IEC: 160 V / 10 A UL: 150 V / 10 A | Box |

**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
B2L 3.50/16/180 SN OR BX**

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Mating connector (conditionally pluggable)
S2L-SMT 3.50/180LF 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 | GTIN (EAN) | Qty. | Product data | Packaging |
|----------------------------|-----------------------------------|--|---------------|------------|---------------------------------------|-----------|
| 1807920000 | S2L-SMT 3.50/16/180LF 3.5SN BK RL | PCB plug-in connector, male header, Solder flange, Reflow solder connection, 3.50 mm, No. of poles: 16, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Tape | 4032248279623 | 175 pc(s). | IEC: 160 V / 10 A UL: 150 V / 10 A | Tape |

S2L-SMT 3.50/90LF 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 | GTIN (EAN) | Qty. | Product data | Packaging |
|----------------------------|----------------------------------|---|---------------|------------|---------------------------------------|-----------|
| 1807610000 | S2L-SMT 3.50/16/90LF 3.2SN BK RL | PCB plug-in connector, male header, Solder flange, Reflow solder connection, 3.50 mm, No. of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Tape | 4032248278909 | 235 pc(s). | IEC: 160 V / 10 A UL: 150 V / 10 A | Tape |

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Mating connector (conditionally pluggable)**S2LD-THR 3.50/90LF****The new benchmark for component density: the virtual 0.875mm pitch - for 1mm² I/O connections**

The only 4-row double level male connectors for standard IP20 sensor interfaces with 3.5 pitch

The S2L in a double pack - a standard has surpassed itself:

- Each 3.5mm wide, 4 I/O contacts for 1mm² connection cross-section
- Force-fit enclosure geometry guarantees maximum stability
- Solder flange eliminates the need for a screw fastening

Less is more - basic advantages for your applications:

- 75% space savings on the circuit board
- Solder flange reduces process costs
- Less mechanical load on the soldering points
- More space for displays in the front panel, for example

A "small" contribution to greater competitiveness:

additional features in the same installation space or a more compact device with the same range of functions.

General ordering data

| Order No. | Type | Version | GTIN (EAN) | Qty. | Product data | Packaging |
|----------------------------|-----------------------------------|--|---------------|-----------|-------------------------------------|-----------|
| 1028410000 | S2LD-THR 3.50/16/90LF 3.2SN BK BX | PCB plug-in connector, male header, open side, Reflow solder connection, 3.50 mm, No. of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box | 4032248756902 | 20 pc(s). | IEC: 200 V / 8 A UL: 150 V / 7 A | Box |

S2L 3.50/180F

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 | GTIN (EAN) | Qty. | Product data | Packaging |
|----------------------------|------------------------------|---|---------------|-----------|---------------------------------------|-----------|
| 1729640000 | S2L 3.50/16/180F 3.5SN BK BX | PCB plug-in connector, male header, Flange, Solder connection, 3.50 mm, No. of poles: 16, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Box | 4032248041046 | 50 pc(s). | IEC: 250 V / 10 A UL: 150 V / 10 A | Box |

**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
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Mating connector (conditionally pluggable)

| | | | | |
|---|--|-------------------------|---------------------------------------|-----|
| 1729480000 S2L 3.50/16/180F 3.5SN OR BX | PCB plug-in connector, male header, Flange, Solder connection, 3.50 mm, No. of poles: 16, 180°, Solder pin length (l): 3.5 mm, tinned, Orange, Box | 4032248036912 50 pc(s). | IEC: 250 V / 10 A UL: 150 V / 10 A | Box |
|---|--|-------------------------|---------------------------------------|-----|

S2L 3.50/90F


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 | GTIN (EAN) | Qty. | Product data | Packaging |
|----------------------------|-----------------------------|---|---------------|-----------|---------------------------------------|-----------|
| 1728680000 | S2L 3.50/16/90F 3.5SN BK BX | PCB plug-in connector, male header, Flange, Solder connection, 3.50 mm, No. of poles: 16, 90°, Solder pin length (l): 3.5 mm, tinned, Black, Box | 4032248040148 | 50 pc(s). | IEC: 250 V / 10 A UL: 150 V / 10 A | Box |
| 1728520000 | S2L 3.50/16/90F 3.5SN OR BX | PCB plug-in connector, male header, Flange, Solder connection, 3.50 mm, No. of poles: 16, 90°, Solder pin length (l): 3.5 mm, tinned, Orange, Box | 4032248036844 | 50 pc(s). | IEC: 250 V / 10 A UL: 150 V / 10 A | Box |

