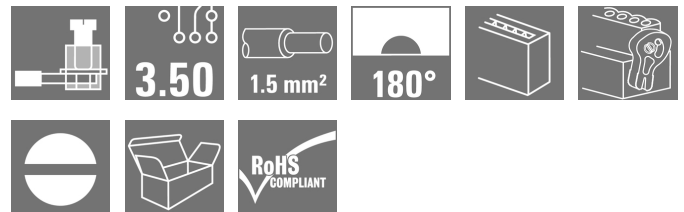


## OMNIMATE Signal - series BL/SL 3.50 BL 3.50/16/180LH SN BK BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
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www.weidmueller.com

### Product image



Similar to illustration

Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

### General ordering data

Type	BL 3.50/16/180LH SN BK BX
Order No.	<a href="#">1688020000</a>
Version	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 16, 180°, Clamping yoke connection, Clamping range, max. : 1.5 mm², Box
GTIN (EAN)	4008190853570
Qty.	24 pc(s).
Product data	IEC: 320 V / 17 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 14
Packaging	Box

Creation date May 3, 2020 2:05:20 PM CEST

**OMNIMATE Signal - series BL/SL 3.50  
BL 3.50/16/180LH SN BK BX**

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**Technical data**
**Dimensions and weights**

Width	62.5 mm	Width (inches)	2.461 inch
Height	14.9 mm	Height (inches)	0.587 inch
Depth	29.5 mm	Depth (inches)	1.161 inch
Net weight	15.42 g		

**System Parameters**

Product family	OMNIMATE Signal - series BL/SL 3.50	Type of connection	Field connection
Wire connection method	Clamping yoke connection	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	Conductor outlet direction	180°
Number of poles	16	L1 in mm	52.5 mm
L1 in inches	2.067 inch	Number of rows	1
Pin series quantity	1	Rated cross-section	1.5 mm <sup>2</sup>
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Volume resistance	≤ 5mΩ	Can be coded	Yes
Stripping length	6 mm	Tightening torque, min.	0.2 Nm
Tightening torque, max.	0.25 Nm	Clamping screw	M 2
Screwdriver blade	0.4 x 2.5	Screwdriver blade standard	DIN 5264
Plugging cycles	25	Plugging force/pole, max.	7 N
Pulling force/pole, max.	5 N		

**Material data**

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Insulation strength	≥ 10 <sup>8</sup> Ω
UL 94 flammability rating	V-0	GWFI	960 °C
Contact material	Copper alloy	Contact surface	tinned
Layer structure of plug contact	4-8 μm Sn hot-dip tinned	Storage temperature, min.	-25 °C
Storage temperature, max.	50 °C	Max. relative humidity during storage	70 %
Operating temperature, min.	-50 °C	Operating temperature, max.	100 °C
Temperature range, installation, min.	-30 °C	Temperature range, installation, max.	100 °C

**Conductors suitable for connection**

Clamping range, min.	0.08 mm <sup>2</sup>
Clamping range, max.	1.5 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 28
Wire connection cross section AWG, max.	AWG 14
Solid, min. H05(07) V-U	0.2 mm <sup>2</sup>
Solid, max. H05(07) V-U	1.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.2 mm <sup>2</sup>
Flexible, max. H05(07) V-K	1.5 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm <sup>2</sup> min.	
w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm <sup>2</sup> max.	
w. wire end ferrule, DIN 46228 pt 1, 0.2 mm <sup>2</sup> min.	
w. wire end ferrule, DIN 46228 pt 1, 1.5 mm <sup>2</sup> max.	

Creation date May 3, 2020 2:05:20 PM CEST

**OMNIMATE Signal - series BL/SL 3.50**  
**BL 3.50/16/180LH SN BK BX**

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**Technical data**

Plug gauge in accordance with EN 60999 a x b; ø	2.4 mm x 1.5 mm		
Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	0.5 mm <sup>2</sup>
wire end ferrule		Stripping length	nominal 8 mm
		Recommended wire-end ferrule	<a href="#">H0.5/12 OR</a>
		Stripping length	nominal 6 mm
		Recommended wire-end ferrule	<a href="#">H0.5/6</a>
Cross-section for conductor connection	Type	fine-wired	
	nominal	0.75 mm <sup>2</sup>	
wire end ferrule		Stripping length	nominal 8 mm
		Recommended wire-end ferrule	<a href="#">H0.75/12 W</a>
		Stripping length	nominal 6 mm
		Recommended wire-end ferrule	<a href="#">H0.75/6</a>
Cross-section for conductor connection	Type	fine-wired	
	nominal	1 mm <sup>2</sup>	
wire end ferrule		Stripping length	nominal 8 mm
		Recommended wire-end ferrule	<a href="#">H1.0/12 GE</a>
		Stripping length	nominal 6 mm
		Recommended wire-end ferrule	<a href="#">H1.0/6</a>
Cross-section for conductor connection	Type	fine-wired	
	nominal	0.25 mm <sup>2</sup>	
wire end ferrule		Stripping length	nominal 8 mm
		Recommended wire-end ferrule	<a href="#">H0.25/10 HBL</a>
		Stripping length	nominal 5 mm
		Recommended wire-end ferrule	<a href="#">H0.25/5</a>
Cross-section for conductor connection	Type	fine-wired	
	nominal	0.34 mm <sup>2</sup>	
wire end ferrule		Stripping length	nominal 8 mm
		Recommended wire-end ferrule	<a href="#">H0.34/10 TK</a>
Reference text	The outside diameter of the plastic collar should not be larger than the pitch (P). Length of ferrules is to be chosen depending on the product and the rated voltage.		
Max. clamping range	1.5 mm <sup>2</sup>		

**Rated data acc. to IEC**

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	17 A
Rated current, max. number of poles (Tu=20°C)	12 A	Rated current, min. number of poles (Tu=40°C)	14.5 A
Rated current, max. number of poles (Tu=40°C)	10 A	Rated voltage for surge voltage class / pollution degree II/2	320 V
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated voltage for surge voltage class / pollution degree III/3	160 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	320 V	Rated impulse voltage for surge voltage class/ pollution degree III/2	160 V
Rated impulse voltage for surge voltage class/ contamination degree III/3	160 V	Short-time withstand current resistance	3 x 1s with 100 A


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**Technical data****Rated data acc. to CSA**

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	10 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 14

**Rated data acc. to UL 1059**

Institute (UR)		Certificate No. (UR)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group B / UL 1059)	10 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 14
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

**Packing**

Packaging	Box	VPE length	59 mm
VPE width	72 mm	VPE height	228 mm

**Classifications**

ETIM 6.0	EC002638	ETIM 7.0	EC002638
eClass 9.0	27-44-03-09	eClass 9.1	27-44-03-09
eClass 10.0	27-44-03-09	UNSPSC	30-21-18-10

**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 &amp; min. No. of poles.</li> <li>• Max. outer diameter of the conductor: 2.9 mm</li> <li>• Wire end ferrule without plastic collar to DIN 46228/1</li> <li>• Wire end ferrule with plastic collar to DIN 46228/4</li> <li>• P on drawing = pitch</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>
IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.

**Data sheet****OMNIMATE Signal - series BL/SL 3.50  
BL 3.50/16/180LH SN BK BX**

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**Technical data****Approvals**

Approvals



ROHS

Conform

**Downloads**Approval/Certificate/Document of  
Conformity[Declaration of the Manufacturer](#)

Brochure/Catalogue

[FL DRIVES EN](#)  
[MB DEVICE MANUF. EN](#)  
[FL DRIVES DE](#)  
[CAT 2 PORTFOLIOGUIDE EN](#)  
[FL BUILDING SAFETY EN](#)  
[FL APPL LED LIGHTING EN](#)  
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[FL POWER SUPPLY EN](#)  
[FL 72H SAMPLE SER EN](#)  
[PO OMNIMATE EN](#)

Engineering Data

[STEP](#)

Product Change Notification

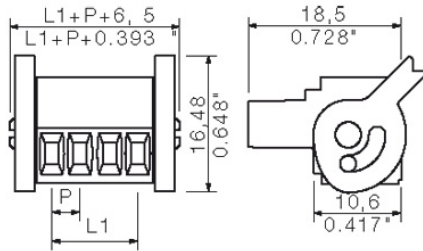
[Change of Material LR 3.50 - DE](#)  
[Change of Material LR 3.50 - EN](#)

**OMNIMATE Signal - series BL/SL 3.50  
BL 3.50/16/180LH SN BK BX**

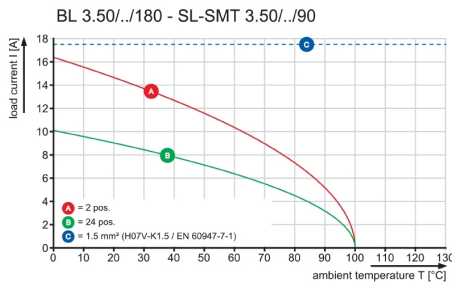
**Weidmüller Interface GmbH & Co. KG**  
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**Drawings**

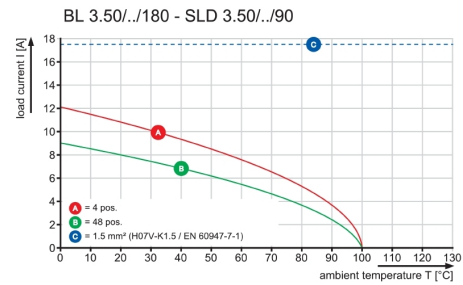
**Dimensional drawing**



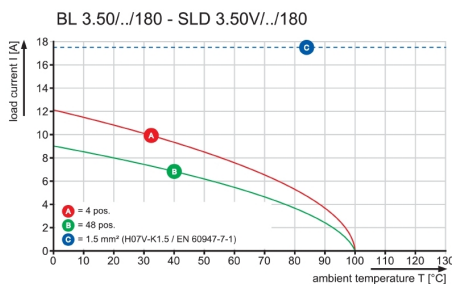
**Graph**



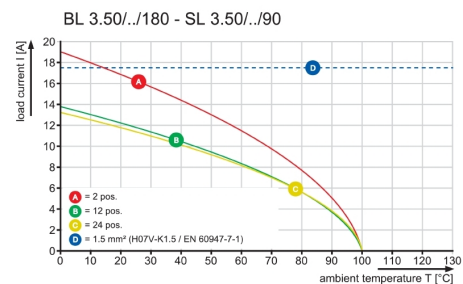
**Graph**



**Graph**

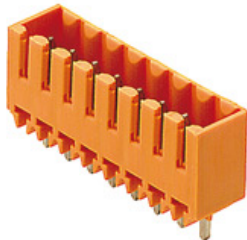


**Graph**



**OMNIMATE Signal - series BL/SL 3.50  
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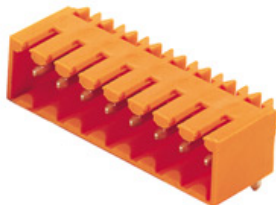
**Mating connector (conditionally pluggable)**
**SL 3.50/180G**


Pin headers for wave soldering in 3.50 mm pitch

- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

**General ordering data**

Type	SL 3.50/16/180G 3.2SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1604610000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length (l): 3.2 mm, tinned, orange, Box	IEC: 320 V / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190112615			
Qty.	50 pc(s).			
Type	SL 3.50/16/180G 4.5SN B ...	Version	Product data	Packaging
Order No.	<a href="#">1614260000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length (l): 4.5 mm, tinned, black, Box	IEC: 320 V / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190021740			
Qty.	50 pc(s).			

**SL 3.50/90G**


Pin headers for wave soldering in 3.50 mm pitch

- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

**General ordering data**

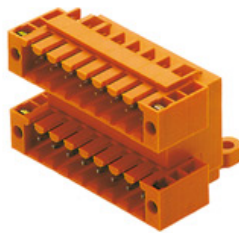
Type	SL 3.50/16/90G 3.2SN GY ...	Version	Product data	Packaging
Order No.	<a href="#">1619600000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, Pebble grey, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190142773			
Qty.	50 pc(s).			
Type	SL 3.50/16/90G 3.2SN DK ...	Version	Product data	Packaging
Order No.	<a href="#">1607030000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, Signal green, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190030032			
Qty.	50 pc(s).			
Type	SL 3.50/16/90G 4.5SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1605360000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 4.5 mm, tinned, orange, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190001834			
Qty.	50 pc(s).			
Type	SL 3.50/16/90G 4.5SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1614190000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 4.5 mm, tinned, black, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190020941			
Qty.	50 pc(s).			

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**Mating connector (conditionally pluggable)**

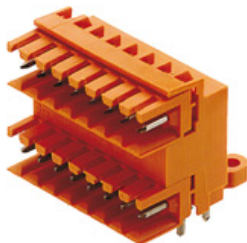
Type	SL 3.50/16/90G 3.2SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1605210000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box	IEC: / 17 A	Box
GTIN (EAN)	4008190129255		UL: 300 V / 10 A	
Qty.	50 pc(s).			

**SLD 3.50/90F**


Two-tier pin header for wave soldering in 3.50 mm pitch. The connector is available in open, closed and flange versions. The male connectors provide space for labelling and can be coded. Packed in a cardboard box.

**General ordering data**

Type	SLD 3.50/32/90F 3.2SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1633950000</a>	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 32, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box	IEC: 200 V / 10.5 A	Box
GTIN (EAN)	4008190258405		UL: 300 V / 8 A	
Qty.	10 pc(s).			

**SLD 3.50/90**


Two-tier pin header for wave soldering in 3.50 mm pitch. The connector is available in open, closed and flange versions. The male connectors provide space for labelling and can be coded. Packed in a cardboard box.

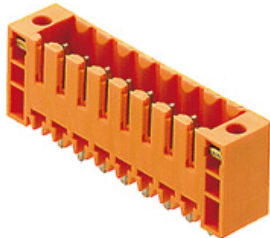
**General ordering data**

Type	SLD 3.50/32/90 3.2SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1633490000</a>	PCB plug-in connector, male header, open side, THT solder connection, 3.50 mm, Number of poles: 32, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box	IEC: 200 V / 10.5 A	Box
GTIN (EAN)	4008190257941		UL: 300 V / 8 A	
Qty.	10 pc(s).			



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**Mating connector (conditionally pluggable)**
**SL 3.50/180F**


Pin headers for wave soldering in 3.50 mm pitch

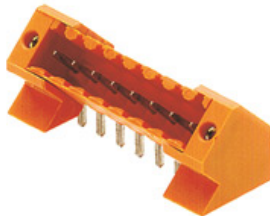
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

**General ordering data**

Type	SL 3.50/16/180F 4.5SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1618820000</a>	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190128081	3.50 mm, Number of poles: 16, 180°, Solder pin length (l): 4.5 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, orange, Box		
Type	SL 3.50/16/180F 3.2SN G ...	Version	Product data	Packaging
Order No.	<a href="#">1622400000</a>	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190190101	3.50 mm, Number of poles: 16, 180°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, Pebble grey, Box		
Type	SL 3.50/16/180F 3.2SN D ...	Version	Product data	Packaging
Order No.	<a href="#">1622620000</a>	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190193287	3.50 mm, Number of poles: 16, 180°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, Signal green, Box		
Type	SL 3.50/16/180F 4.5 SN ...	Version	Product data	Packaging
Order No.	<a href="#">1616270000</a>	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190069834	3.50 mm, Number of poles: 16, 180°, Solder pin length (l): 4.5 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, black, Box		
Type	SL 3.50/16/180F 3.2SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1607640000</a>	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190034535	3.50 mm, Number of poles: 16, 180°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, orange, Box		
Type	SL 3.50/16/180F 3.2AU O ...	Version	Product data	Packaging
Order No.	<a href="#">1740130000</a>	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: / 17 A	Box
GTIN (EAN)	4008190960506	3.50 mm, Number of poles: 16, 180°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	Gold-plated, orange, Box		

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**Mating connector (conditionally pluggable)**
**SL 3.50/135F**


Pin headers for wave soldering in 3.50 mm pitch

- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

**General ordering data**

Type	SL 3.50/16/135F 3.2SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1643470000</a>	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 15 A	Box
GTIN (EAN)	4008190282233	3.50 mm, Number of poles: 16, 135°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	24 pc(s).	tinned, orange, Box		

**SL-SMT 3.5/90G Tray**


**High-temperature-resistant male header, 3.50 mm pitch.**

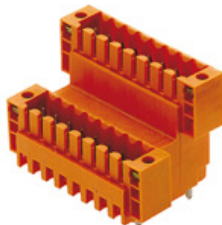
- **Plugging direction parallel (90°), straight 180° or angled (135°) to PCB**
- **Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)**
- **Optimised for the SMT process**
- **Pin length 3.2 mm universal for all soldering methods**
- **Pin length 1.5 mm optimised for reflow soldering methods**
- **Packed either in a box (BX) or tape-on-reel (RL)**
- **Male header can be coded**

**General ordering data**

Type	SL-SMT 3.50/16/90G 1.5S ...	Version	Product data	Packaging
Order No.	<a href="#">1761683001</a>	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 15 A	Tray
GTIN (EAN)	4032248133956	connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	24 pc(s).	1.5 mm, tinned, black, Tray		

**OMNIMATE Signal - series BL/SL 3.50  
BL 3.50/16/180LH SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
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Fon: +49 5231 14-0  
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www.weidmueller.com

**Mating connector (conditionally pluggable)**
**SLD 3.50V/180F**


Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

**General ordering data**

Type	SLD 3.50 V/32/180F 3.2 ...	Version	Product data	Packaging
Order No.	<a href="#">1641310000</a>	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 200 V / 10.5 A	Box
GTIN (EAN)	4008190279714	3.50 mm, Number of poles: 32, 180°, Solder pin length (l): 3.2 mm,	UL: 300 V / 8 A	
Qty.	10 pc(s).	tinned, orange, Box		

**SL-THR 3.5/135F**


**High-temperature-resistant male header, 3.50 mm pitch.**

- **Plugging direction parallel (90°), straight 180° or angled (135°) to PCB**
- **Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)**
- **Optimised for the SMT process**
- **Pin length 3.2 mm universal for all soldering methods**
- **Pin length 1.5 mm optimised for reflow soldering methods**
- **Packed either in a box (BX) or tape-on-reel (RL)**
- **Male header can be coded**

**General ordering data**

Type	SL-SMT 3.50/16/135F 3.2 ...	Version	Product data	Packaging
Order No.	<a href="#">1003660000</a>	PCB plug-in connector, male header, Flange, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248700288	connection, 3.50 mm, Number of poles: 16, 135°, Solder pin length	UL: 300 V / 10 A	
Qty.	24 pc(s).	(l): 3.2 mm, tinned, black, Box		

**OMNIMATE Signal - series BL/SL 3.50  
BL 3.50/16/180LH SN BK BX**

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**Mating connector (conditionally pluggable)**
**SLD 3.50V/90G**


Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

**General ordering data**

Type	SLD 3.50V/32/90G 3.2SN ...	Version	Product data	Packaging
Order No.	<a href="#">1642310000</a>	PCB plug-in connector, male header, closed side, THT solder	IEC: 200 V / 10.5 A	Box
GTIN (EAN)	4008190280833	connection, 3.50 mm, Number of poles: 32, 90°, Solder pin length (l):	UL: 300 V / 8 A	
Qty.	10 pc(s).	3.2 mm, tinned, orange, Box		

**SL-SMT 3.5/180G Box**


**High-temperature-resistant male header, 3.50 mm pitch.**

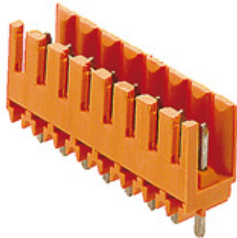
- **Plugging direction parallel (90°), straight 180° or angled (135°) to PCB**
- **Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)**
- **Optimised for the SMT process**
- **Pin length 3.2 mm universal for all soldering methods**
- **Pin length 1.5 mm optimised for reflow soldering methods**
- **Packed either in a box (BX) or tape-on-reel (RL)**
- **Male header can be coded**

**General ordering data**

Type	SL-SMT 3.50/16/180G 3.2 ...	Version	Product data	Packaging
Order No.	<a href="#">1842450000</a>	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248353804	connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length	UL: 300 V / 10 A	
Qty.	50 pc(s).	(l): 3.2 mm, tinned, black, Box		
Type	SL-SMT 3.50/16/180G 1.5 ...	Version	Product data	Packaging
Order No.	<a href="#">1753122001</a>	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248131020	connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length	UL: 300 V / 10 A	
Qty.	50 pc(s).	(l): 1.5 mm, tinned, black, Box		

**OMNIMATE Signal - series BL/SL 3.50  
BL 3.50/16/180LH SN BK BX**

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**Mating connector (conditionally pluggable)**
**SL 3.50/180**


Pin headers for wave soldering in 3.50 mm pitch

- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

**General ordering data**

Type	SL 3.50/16/180 3.2SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1604910000</a>	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190034023	connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length	UL: 300 V / 10 A	
Qty.	50 pc(s).	(l): 3.2 mm, tinned, orange, Box		

**SL-SMT 3.5/180G Tray**


**High-temperature-resistant male header, 3.50 mm pitch.**

- **Plugging direction parallel (90°), straight 180° or angled (135°) to PCB**
- **Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)**
- **Optimised for the SMT process**
- **Pin length 3.2 mm universal for all soldering methods**
- **Pin length 1.5 mm optimised for reflow soldering methods**
- **Packed either in a box (BX) or tape-on-reel (RL)**
- **Male header can be coded**

**General ordering data**

Type	SL-SMT 3.50/16/180G 1.5 ...	Version	Product data	Packaging
Order No.	<a href="#">1753123001</a>	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 15 A	Tray
GTIN (EAN)	4032248132966	connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length	UL: 300 V / 10 A	
Qty.	24 pc(s).	(l): 1.5 mm, tinned, black, Tray		

**OMNIMATE Signal - series BL/SL 3.50  
BL 3.50/16/180LH SN BK BX**

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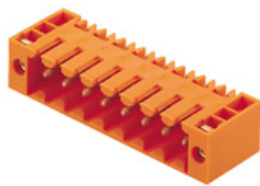
**Mating connector (conditionally pluggable)****SL-SMT 3.5/90G Box**

**High-temperature-resistant male header, 3.50 mm pitch.**

- **Plugging direction parallel (90°), straight 180° or angled (135°) to PCB**
- **Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)**
- **Optimised for the SMT process**
- **Pin length 3.2 mm universal for all soldering methods**
- **Pin length 1.5 mm optimised for reflow soldering methods**
- **Packed either in a box (BX) or tape-on-reel (RL)**
- **Male header can be coded**

**General ordering data**

Type	SL-SMT 3.50/16/90G 3.2S ...	Version	Product data	Packaging
Order No.	<a href="#">1841770000</a>	PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, black, Box	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
GTIN (EAN)	4032248353125			
Qty.	50 pc(s).			
Type	SL-SMT 3.50/16/90G 1.5S ...	Version	Product data	Packaging
Order No.	<a href="#">1761682001</a>	PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 1.5 mm, tinned, black, Box	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
GTIN (EAN)	4032248132270			
Qty.	50 pc(s).			

**SL 3.50/90F**

Pin headers for wave soldering in 3.50 mm pitch

- **Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB**
- **Housing variant: screw flange (F)**
- **Packed in a cardboard box (BX)**
- **Pin header can be coded**

**General ordering data**

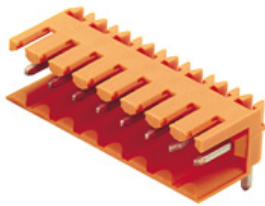
Type	SL 3.50/16/90F 4.5 SN B ...	Version	Product data	Packaging
Order No.	<a href="#">1615660000</a>	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 4.5 mm, tinned, black, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190058593			
Qty.	50 pc(s).			
Type	SL 3.50/16/90F 3.2SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1607180000</a>	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190004446			
Qty.	50 pc(s).			

**OMNIMATE Signal - series BL/SL 3.50  
BL 3.50/16/180LH SN BK BX**

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**Mating connector (conditionally pluggable)**

Type	SL 3.50/16/90F 3.2SN DK ...	Version	Product data	Packaging
Order No.	<a href="#">1620200000</a>	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: / 17 A	Box
GTIN (EAN)	4008190153168	3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, Signal green, Box		
Type	SL 3.50/16/90F 4.5 SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1618190000</a>	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: / 17 A	Box
GTIN (EAN)	4008190117412	3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 4.5 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, orange, Box		
Type	SL 3.50/16/90F 3.2SN GY ...	Version	Product data	Packaging
Order No.	<a href="#">1619990000</a>	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: / 17 A	Box
GTIN (EAN)	4008190150242	3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, Pebble grey, Box		

**SL 3.50/90**

Pin headers for wave soldering in 3.50 mm pitch

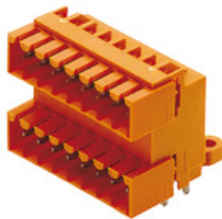
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

**General ordering data**

Type	SL 3.50/16/90 3.2SN GY ...	Version	Product data	Packaging
Order No.	<a href="#">1619210000</a>	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190136314	connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, Pebble grey, Box		
Type	SL 3.50/16/90 4.5SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1614150000</a>	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190020033	connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	4.5 mm, tinned, black, Box		
Type	SL 3.50/16/90 4.5SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1605510000</a>	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190055219	connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	4.5 mm, tinned, orange, Box		
Type	SL 3.50/16/90 3.2SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1597350000</a>	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190105594	connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, orange, Box		
Type	SL 3.50/16/90 3.2SN DKG ...	Version	Product data	Packaging
Order No.	<a href="#">1606910000</a>	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190069858	connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, Signal green, Box		

**OMNIMATE Signal - series BL/SL 3.50  
BL 3.50/16/180LH SN BK BX**

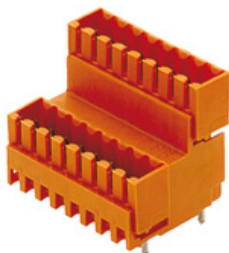
**Weidmüller Interface GmbH & Co. KG**  
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**Mating connector (conditionally pluggable)**
**SLD 3.50/90G**


Two-tier pin header for wave soldering in 3.50 mm pitch. The connector is available in open, closed and flange versions. The male connectors provide space for labelling and can be coded. Packed in a cardboard box.

**General ordering data**

Type	SLD 3.50/32/90G 3.2SN D ...	Version	Product data	Packaging
Order No.	<a href="#">1674990000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 32, 90°, Solder pin length (l): 3.2 mm, tinned, Signal green, Box	IEC: 200 V / 10.5 A UL: 300 V / 8 A	Box
GTIN (EAN)	4008190445683			
Qty.	10 pc(s).			
Type	SLD 3.50/32/90G 3.2SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1633720000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 32, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box	IEC: 200 V / 10.5 A UL: 300 V / 8 A	Box
GTIN (EAN)	4008190258177			
Qty.	10 pc(s).			
Type	SLD 3.50/32/90G 4.5SN B ...	Version	Product data	Packaging
Order No.	<a href="#">1634410000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 32, 90°, Solder pin length (l): 4.5 mm, tinned, black, Box	IEC: 200 V / 10.5 A UL: 300 V / 8 A	Box
GTIN (EAN)	4008190258863			
Qty.	10 pc(s).			

**SLD 3.50V/180G**


Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

**General ordering data**

Type	SLD 3.50V/32/180G 3.2SN ...	Version	Product data	Packaging
Order No.	<a href="#">1641180000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 32, 180°, Solder pin length (l): 3.2 mm, tinned, orange, Box	IEC: 200 V / 10.5 A UL: 300 V / 8 A	Box
GTIN (EAN)	4008190279585			
Qty.	10 pc(s).			



**OMNIMATE Signal - series BL/SL 3.50  
BL 3.50/16/180LH SN BK BX**

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**Mating connector (fully pluggable)**
**SL-SMT 3.5/90LF Box**


**High-temperature-resistant male header, 3.50 mm pitch.**

- **Plugging direction parallel (90°), straight 180° or angled (135°) to PCB**
- **Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)**
- **Optimised for the SMT process**
- **Pin length 3.2 mm universal for all soldering methods**
- **Pin length 1.5 mm optimised for reflow soldering methods**
- **Packed either in a box (BX) or tape-on-reel (RL)**
- **Male header can be coded**

**General ordering data**

Type	SL-SMT 3.50/16/90LF 3.2 ...	Version	Product data	Packaging
Order No.	<a href="#">1841990000</a>	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, black, Box	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
GTIN (EAN)	4032248353347			
Qty.	24 pc(s).			
Type	SL-SMT 3.50/16/90LF 1.5 ...	Version	Product data	Packaging
Order No.	<a href="#">1805080000</a>	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 1.5 mm, tinned, black, Box	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
GTIN (EAN)	4032248268986			
Qty.	24 pc(s).			

**OMNIMATE Signal - series BL/SL 3.50  
BL 3.50/16/180LH SN BK BX**

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**Mating connector (fully pluggable)**
**SL-SMT 3.5/180F Box**


**High-temperature-resistant male header, 3.50 mm pitch.**

- **Plugging direction parallel (90°), straight 180° or angled (135°) to PCB**
- **Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)**
- **Optimised for the SMT process**
- **Pin length 3.2 mm universal for all soldering methods**
- **Pin length 1.5 mm optimised for reflow soldering methods**
- **Packed either in a box (BX) or tape-on-reel (RL)**
- **Male header can be coded**

**General ordering data**

Type	SL-SMT 3.50/16/180F 3.2 ...	Version	Product data	Packaging
Order No.	<a href="#">1842910000</a>	PCB plug-in connector, male header, Flange, THT/THR solder connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length (l): 3.2 mm, tinned, black, Box	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
GTIN (EAN)	4032248354375			
Qty.	24 pc(s).			

**SLD 3.50V/90F**


Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

**General ordering data**

Type	SLD 3.50 V/32/90F 3.2 S ...	Version	Product data	Packaging
Order No.	<a href="#">1642440000</a>	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 32, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box	IEC: 200 V / 10.5 A UL: 300 V / 8 A	Box
GTIN (EAN)	4008190280963			
Qty.	10 pc(s).			

**OMNIMATE Signal - series BL/SL 3.50  
BL 3.50/16/180LH SN BK BX**

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**Mating connector (fully pluggable)**
**SL-SMT 3.5/90F Box**


**High-temperature-resistant male header, 3.50 mm pitch.**

- **Plugging direction parallel (90°), straight 180° or angled (135°) to PCB**
- **Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)**
- **Optimised for the SMT process**
- **Pin length 3.2 mm universal for all soldering methods**
- **Pin length 1.5 mm optimised for reflow soldering methods**
- **Packed either in a box (BX) or tape-on-reel (RL)**
- **Male header can be coded**

**General ordering data**

Type	SL-SMT 3.50/16/90F 3.2S ...	Version	Product data	Packaging
Order No.	<a href="#">1842220000</a>	PCB plug-in connector, male header, Flange, THT/THR solder connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, black, Box	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248353576		UL: 300 V / 10 A	
Qty.	24 pc(s).			

**SL-SMT 3.5/180LF Box**


**High-temperature-resistant male header, 3.50 mm pitch.**

- **Plugging direction parallel (90°), straight 180° or angled (135°) to PCB**
- **Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)**
- **Optimised for the SMT process**
- **Pin length 3.2 mm universal for all soldering methods**
- **Pin length 1.5 mm optimised for reflow soldering methods**
- **Packed either in a box (BX) or tape-on-reel (RL)**
- **Male header can be coded**

**General ordering data**

Type	SL-SMT 3.50/16/180LF 3. ...	Version	Product data	Packaging
Order No.	<a href="#">1842680000</a>	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length (l): 3.2 mm, tinned, black, Box	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248354047		UL: 300 V / 10 A	
Qty.	24 pc(s).			

**Data sheet**

**OMNIMATE Signal - series BL/SL 3.50  
BL 3.50/16/180LH SN BK BX**

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**Mating connector (fully pluggable)**

Type	SL-SMT 3.50/16/180LF 1. ...	Version	Product data	Packaging
Order No.	<a href="#">1804840000</a>	PCB plug-in connector, male header, Solder flange, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248268610	connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length	UL: 300 V / 10 A	
Qty.	24 pc(s).	(I): 1.5 mm, tinned, black, Box		

## OMNIMATE Signal - series BL/SL 3.50 BL 3.50/16/180LH SN BK BX

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 www.weidmueller.com

# Accessories

## Cover hoods



### Effective protection, optimised ergonomics and closed design:

From the strain relief on the connected conductors and the visual/contact protection and the disconnection aid: the optional retrofit hoods perform mechanical, visual and haptic functions.

The two half shells clip together securely, enclose the plug completely and offer the following functions:

- Cable ties or integrated cable clips provide strain relief.
- Marked with dekafix labels or adhesive strips
- Mounting side by side without losing poles or displacing the pitch
- Compatible: suitable for plugs with or without a flange or mounting bracket
- Flexible: 1-3 cable outlets leading in different directions available depending on the size

Weidmüller hoods offer added stability, better identification, complete compatibility and versatility. The result: maximum reliability and user-friendliness in any application.

### General ordering data

Type	BL 3.50 AH16 BK BX	Version	Product data	Packaging
Order No.	<a href="#">1745710000</a>	PCB plug-in connector, Accessories, Hood, black, Number of poles: 16		Box
GTIN (EAN)	4008190985134			
Qty.	10 pc(s).			

## Strain reliefs



### For frequent load changes: the "trailer coupling" for plug-in connectors.

The strain relief can do more than just relieve the strain on conductors:

Simply clip onto the plug and

- bundle conductors
- guide cables
- use as a connection and disconnection aid

No damage to the connecting points, clear, tidy wiring and easy to handle.

User advantages: permanent heavy-duty connections for harsh industrial environments and convenient operation ensure improved system availability.

### General ordering data

Type	BL 3.50 ZE08 BK BX	Version	Product data	Packaging
Order No.	<a href="#">1627830000</a>	PCB plug-in connector, Accessories, Strain relief, black, Number of poles: 8		Box
GTIN (EAN)	4008190202576			
Qty.	50 pc(s).			

## OMNIMATE Signal - series BL/SL 3.50 BL 3.50/16/180LH SN BK BX

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## Accessories

Type	BL 3.50 ZE03 BK BX	Version	Product data	Packaging
Order No.	<a href="#">1627820000</a>	PCB plug-in connector, Accessories, Strain relief, black, Number of		Box
GTIN (EAN)	4008190202552	poles: 3		
Qty.	50 pc(s).			
Type	BL 3.50 ZE03 OR BX	Version	Product data	Packaging
Order No.	<a href="#">1629680000</a>	PCB plug-in connector, Accessories, Strain relief, orange, Number of		Box
GTIN (EAN)	4008190202569	poles: 3		
Qty.	50 pc(s).			
Type	BL 3.50 ZE08 OR BX	Version	Product data	Packaging
Order No.	<a href="#">1629690000</a>	PCB plug-in connector, Accessories, Strain relief, orange, Number of		Box
GTIN (EAN)	4008190202583	poles: 8		
Qty.	50 pc(s).			

## Coding elements



**Only connects what is supposed to be connected: the right connection at the right place.**

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

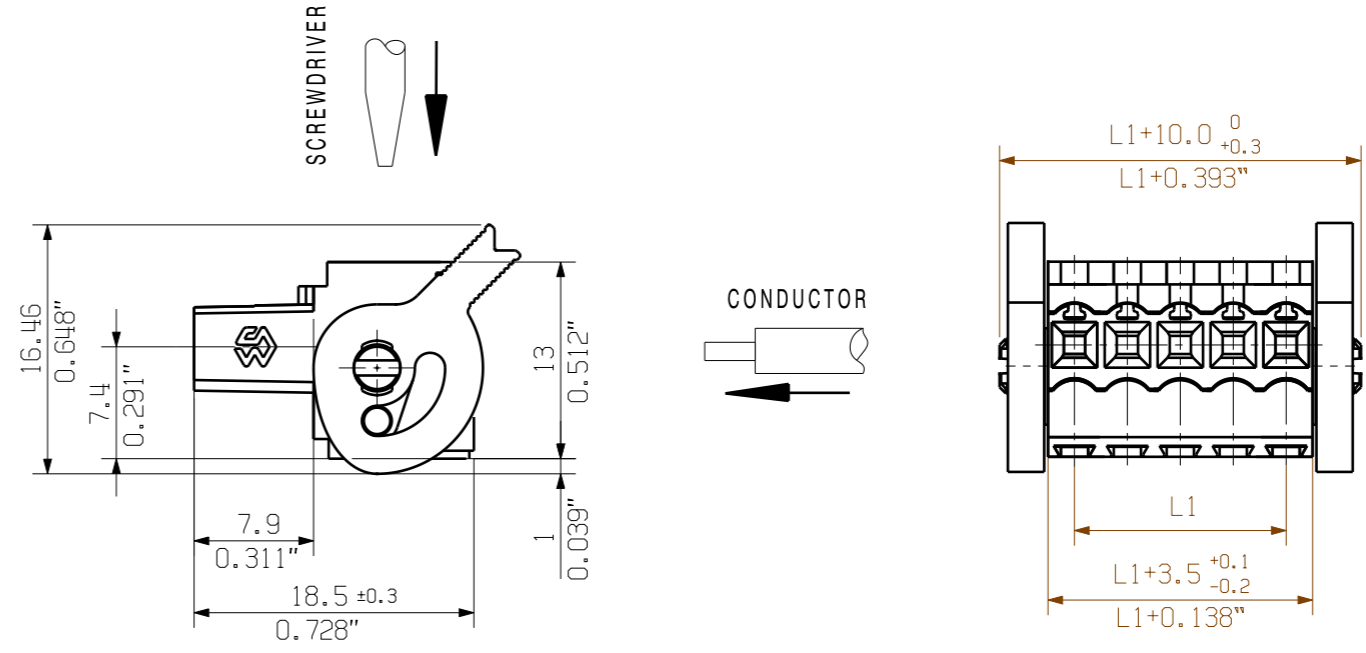
The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery. Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

## General ordering data

Type	BL SL 3.5 KO SW	Version	Product data	Packaging
Order No.	<a href="#">1610100000</a>	PCB plug-in connector, Accessories, Coding element, black, Number		Box
GTIN (EAN)	4008190187637	of poles: 1		
Qty.	100 pc(s).			
Type	BL SL 3.5 KO OR	Version	Product data	Packaging
Order No.	<a href="#">1693430000</a>	PCB plug-in connector, Accessories, Coding element, orange, Number		Box
GTIN (EAN)	4008190867447	of poles: 1		
Qty.	100 pc(s).			

DIE DEUTSCHE VERSION IST VERBINDLICH  
THE GERMAN VERSION IS BINDING

WEITERGABE SOWIE VERVIELFÄLTIGUNG DIESES DOKUMENTS, VERWERTUNG UND MITTEILUNG SEINES INHALTS SIND VERBOTEN, SOWEIT NICHT AUSDRUECKLICH GESTATTET.  
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24	80,50	3,169
23	77,00	3,031
22	73,50	2,894
21	70,00	2,756
20	66,50	2,618
19	63,00	2,480
18	59,50	2,343
17	56,00	2,205
16	52,50	2,067
15	49,00	1,929
14	45,50	1,791
13	42,00	1,654
12	38,50	1,516
11	35,00	1,378
10	31,50	1,240
9	28,00	1,102
8	24,50	0,965
7	21,00	0,827
6	17,50	0,689
5	14,00	0,551
4	10,50	0,413
3	7,00	0,276
2	3,50	0,138
n	L1 [mm]	L1 [inch]

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

SHOWN: BL 3.50/04/180/LH...

	DIN ISO 2768-m	69114/0 20.03.13 HELIS_MA 01		CAT.NO.:	
		<b>MODIFICATION</b>		<b>Weidmüller</b>	
SCALE: 2/1 SUPERSEDES:	DRAWN: 21.07.2009 RESPONSIBLE:	DATE: 04.04.2013 CHECKED:	NAME: HELIS_MA LANG_T HECKERT_M HECKERT_M	<b>C 22682 11</b> DRAWING NO. ISSUE NO. SHEET 01 OF 02 SHEETS	
			<b>BL 3.50/./180/ L(H/R)</b> BUCHSENLEISTE SOCKET BLOCK		PRODUCT FILE: BL 3.50 7382