



## BL 3.50/14/180F SN OR BX

Weidmüller Interface GmbH & Co. KG  
Klingenbergsstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)

## Technical data

## Approvals

## Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate No. (UR)	E60693

## Dimensions and weights

Depth	18.5 mm	Depth (inches)	0.7283 inch
Height	13 mm	Height (inches)	0.5118 inch
Width	56 mm	Width (inches)	2.2047 inch
Net weight	12.73 g		

## Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%
Product Carbon Footprint	Cradle to gate 0,520 kg CO2 eq.

## 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)	3.50 mm		
Pitch in inches (P)	0.138 "		
Conductor outlet direction	180°		
Number of poles	14		
L1 in mm	45.50 mm		
L1 in inches	1.791 "		
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	IP20 plugged/ IP10 unplugged		
Protection degree	IP20, when fully mounted		
Volume resistance	≤5 mΩ		
Can be coded	Yes		
Stripping length	6 mm		
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		
Tightening torque	Torque type	Wire connection	
	Usage information	Tightening torque	min. 0.2 Nm max. 0.25 Nm
	Torque type	Screw flange	
	Usage information	Tightening torque	min. 0.15 Nm max. 0.2 Nm

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## Material data

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Layer structure of plug contact	4...8 µm Sn hot-dip tinned
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
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, min.	0.2 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm <sup>2</sup>
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

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	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
wire end ferrule	nominal	0.34 mm <sup>2</sup>
	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.

## 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	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 100 A

## Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	154685-1318353
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
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

## Rated data acc. to UL 1059

Institute (UR)	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	350.00 mm
VPE width	135.00 mm	VPE height	26.00 mm

## Type tests

Test: Durability of markings	Standard	DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96
	Test	mark of origin, type identification, approval marking SEV, approval marking CSA
	Evaluation	available

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	Test	durability
	Evaluation	passed
Test: Misengagement (Non-interchangeability)	Standard	DIN EN 61984 section 6.3 and 6.9.1 / 09.02, DIN IEC 60512 part 7 section 5 / 05.94
	Test	180° turned with coding elements
	Evaluation	passed
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.99
	Conductor type	<p>Type of conductor solid 0.2 mm<sup>2</sup> and conductor cross-section</p> <p>Type of conductor stranded 0.2 mm<sup>2</sup> and conductor cross-section</p> <p>Type of conductor solid 1.5 mm<sup>2</sup> and conductor cross-section</p> <p>Type of conductor stranded 1.5 mm<sup>2</sup> and conductor cross-section</p> <p>Type of conductor AWG 28/1 and conductor cross-section</p> <p>Type of conductor AWG 28/19 and conductor cross-section</p> <p>Type of conductor AWG 16/1 and conductor cross-section</p> <p>Type of conductor AWG 16/19 and conductor cross-section</p>
	Evaluation	passed
Test for damage to and accidental loosening of conductors	Standard	DIN EN 60999-1 section 9.4 / 12.00
	Requirement	0.2 kg
	Conductor type	<p>Type of conductor AWG 28/1 and conductor cross-section</p> <p>Type of conductor AWG 28/19 and conductor cross-section</p>
	Evaluation	passed
	Requirement	0.3 kg
	Conductor type	<p>Type of conductor 2 × AWG 24/1 and conductor cross-section</p> <p>Type of conductor 2 × AWG 24/19 with and conductor cross-section wire end ferrule</p>
	Evaluation	passed
	Requirement	0.4 kg
	Conductor type	<p>Type of conductor solid 1.5 mm<sup>2</sup> and conductor cross-section</p> <p>Type of conductor stranded 1.5 mm<sup>2</sup> and conductor cross-section</p> <p>Type of conductor AWG 16/7 and conductor cross-section</p>
	Evaluation	passed
Pull-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00
	Requirement	≥ 5 N

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Conductor type	Type of conductor and conductor cross-section	AWG 28/1
	Type of conductor and conductor cross-section	AWG 28/19
Evaluation	passed	
Requirement	≥10 N	
Conductor type	Type of conductor and conductor cross-section	2 × AWG 24/1
	Type of conductor and conductor cross-section	2 × AWG 24/19 with wire end ferrule
Evaluation	passed	
Requirement	≥40 N	
Conductor type	Type of conductor and conductor cross-section	H05V-U1.5
	Type of conductor and conductor cross-section	H05V-K1.5
	Type of conductor and conductor cross-section	AWG 16/7
Evaluation	passed	

## Important note

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.

Notes

- Additional variants 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.
- In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

## Classifications

ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		

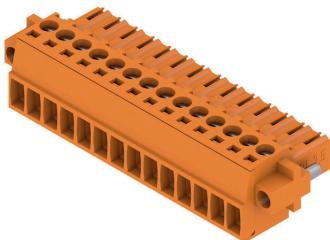
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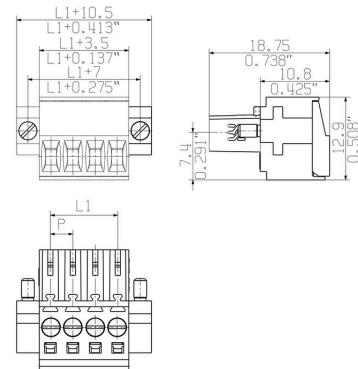
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## Drawings

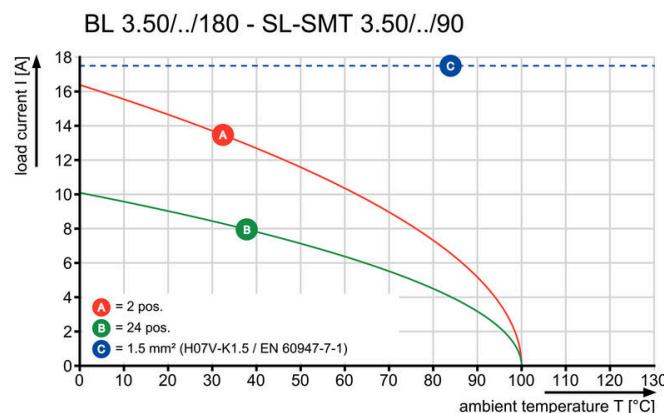
## Product image



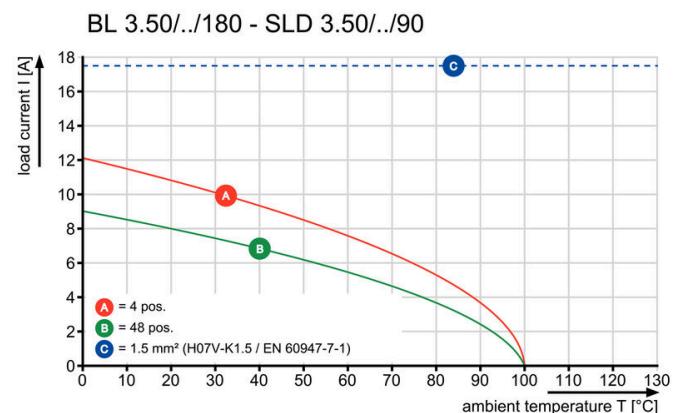
## Dimensional drawing



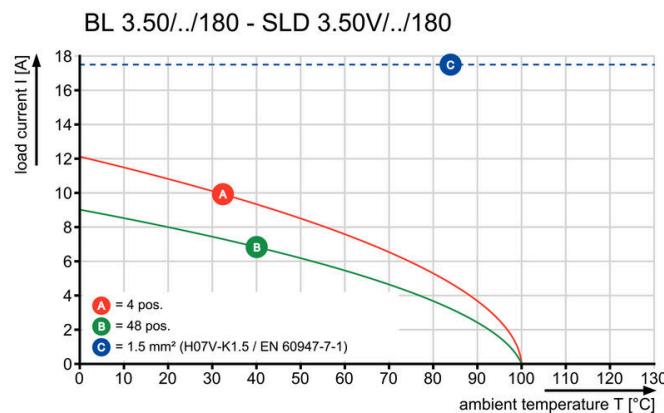
## Graph



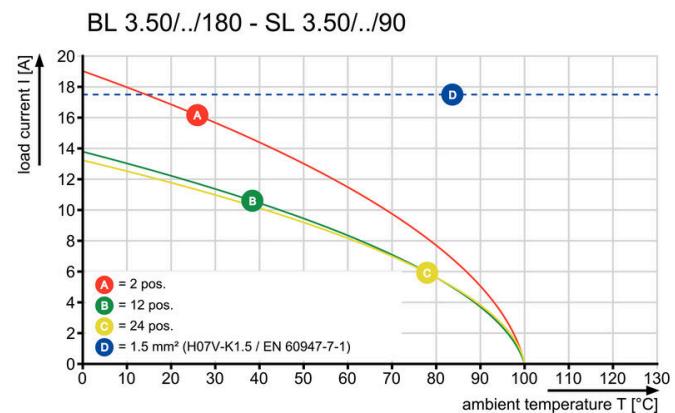
## Graph



## Graph



## Graph



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## Accessories



## 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 ZE03 BK BX	Version
Order No.	<a href="#">1627820000</a>	PCB plug-in connector, Accessories, Strain relief, black, Number of
GTIN (EAN)	4008190202552	poles: 3
Qty.	50 ST	
Type	BL 3.50 ZE08 BK BX	Version
Order No.	<a href="#">1627830000</a>	PCB plug-in connector, Accessories, Strain relief, black, Number of
GTIN (EAN)	4008190202576	poles: 8
Qty.	50 ST	
Type	BL 3.50 ZE03 OR BX	Version
Order No.	<a href="#">1629680000</a>	PCB plug-in connector, Accessories, Strain relief, orange, Number of
GTIN (EAN)	4008190202569	poles: 3
Qty.	50 ST	
Type	BL 3.50 ZE08 OR BX	Version
Order No.	<a href="#">1629690000</a>	PCB plug-in connector, Accessories, Strain relief, orange, Number of
GTIN (EAN)	4008190202583	poles: 8
Qty.	50 ST	

## 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 OR	Version
Order No.	<a href="#">1693430000</a>	PCB plug-in connector, Accessories, Coding element, orange, Number
GTIN (EAN)	4008190867447	of poles: 1
Qty.	100 ST	

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## 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 AH14 BK BX	Version
Order No.	<a href="#">1745690000</a>	PCB plug-in connector, Accessories, Hood, black, Number of poles: 14
GTIN (EAN)	4008190985257	
Qty.	10 ST	

## Coding elements



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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
Order No.	<a href="#">1610100000</a>	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4008190187637	of poles: 1
Qty.	100 ST	

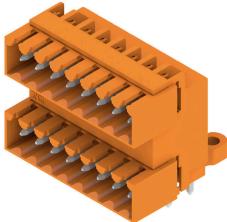
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## Counterpart

## SLD 3.50/90G

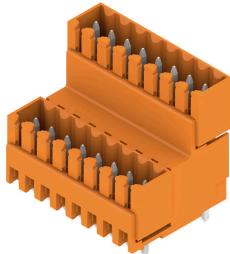


Two-tier pin header for wave soldering in 3.50 mm pitch. The connector is available in open, closed and flange versions. The male connectors provide space for labelling and can be coded. Packed in a cardboard box.

## General ordering data

Type	SLD 3.50/28/90G 3.2SN O...	Version
Order No.	<a href="#">1633700000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190258153	connection, 3.50 mm, Number of poles: 28, 90°, Solder pin length (l):
Qty.	10 ST	3.2 mm, tinned, orange, Box
Type	SLD 3.50/28/90G 4.5SN B...	Version
Order No.	<a href="#">1634390000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190258849	connection, 3.50 mm, Number of poles: 28, 90°, Solder pin length (l):
Qty.	10 ST	4.5 mm, tinned, black, Box

## SLD 3.50V/180G

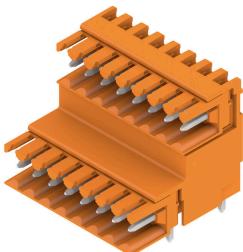


Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

## General ordering data

Type	SLD 3.50V/28/180G 3.2SN...	Version
Order No.	<a href="#">1641170000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190279578	connection, 3.50 mm, Number of poles: 28, 180°, Solder pin length
Qty.	10 ST	(l): 3.2 mm, tinned, orange, Box

## SLD 3.50V/90



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.

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## Counterpart

## General ordering data

Type	SLD 3.50 V/28/90 3.2SN ...	Version
Order No.	<a href="#">1642150000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190280659	connection, 3.50 mm, Number of poles: 28, 90°, Solder pin length (l):
Qty.	10 ST	3.2 mm, tinned, orange, Box

## 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/28/90G 3.2SN ...	Version
Order No.	<a href="#">1642300000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190280826	connection, 3.50 mm, Number of poles: 28, 90°, Solder pin length (l):
Qty.	10 ST	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 3.50/14/180G 1.5...	Version
Order No.	<a href="#">1753102001</a>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248131006	connection, 3.50 mm, Number of poles: 14, 180°, Solder pin length
Qty.	50 ST	(l): 1.5 mm, tinned, black, Box

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## Counterpart

## SL-SMT 3.5/90G Box



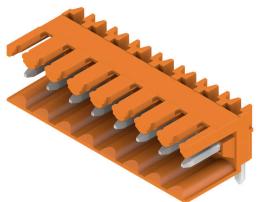
High-temperature-resistant male header, 3.50 mm pitch.

- 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 3.50/14/90G 1.5S...	Version
Order No.	<a href="#">1761662001</a>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248132256	connection, 3.50 mm, Number of poles: 14, 90°, Solder pin length (l):
Qty.	50 ST	1.5 mm, tinned, black, Box

## SL 3.50/90



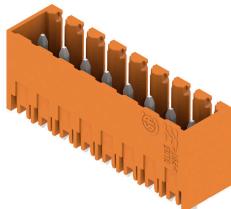
Pin headers for wave soldering in 3.50 mm pitch

- 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 3.50/14/90 3.2SN OR ...	Version
Order No.	<a href="#">1597330000</a>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190129903	connection, 3.50 mm, Number of poles: 14, 90°, Solder pin length (l):
Qty.	50 ST	3.2 mm, tinned, orange, Box

## 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

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Germany

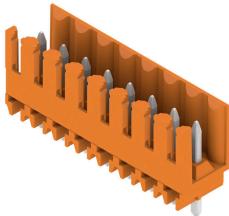
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## Counterpart

## General ordering data

Type	SL 3.50/14/180G 3.2SN O...	Version
Order No.	<a href="#">1604590000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190041465	connection, 3.50 mm, Number of poles: 14, 180°, Solder pin length
Qty.	50 ST	(I): 3.2 mm, tinned, orange, Box
Type	SL 3.50/14/180G 4.5 SN ...	Version
Order No.	<a href="#">1604740000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190047283	connection, 3.50 mm, Number of poles: 14, 180°, Solder pin length
Qty.	50 ST	(I): 4.5 mm, tinned, orange, Box

## SL 3.50/180



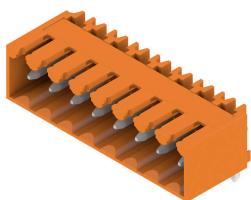
Pin headers for wave soldering in 3.50 mm pitch

- 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 3.50/14/180 3.2SN OR...	Version
Order No.	<a href="#">1604890000</a>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190025595	connection, 3.50 mm, Number of poles: 14, 180°, Solder pin length
Qty.	50 ST	(I): 3.2 mm, tinned, orange, Box
Type	SL 3.50/14/180 4.5 SN O...	Version
Order No.	<a href="#">1605040000</a>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190138752	connection, 3.50 mm, Number of poles: 14, 180°, Solder pin length
Qty.	50 ST	(I): 4.5 mm, tinned, orange, Box

## 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 3.50/14/90G 3.2SN OR...	Version
Order No.	<a href="#">1605190000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190097318	connection, 3.50 mm, Number of poles: 14, 90°, Solder pin length (I):
Qty.	50 ST	3.2 mm, tinned, orange, Box

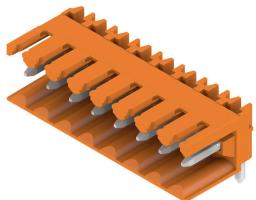
## BL 3.50/14/180F SN OR BX

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## Counterpart

## SL 3.50/90



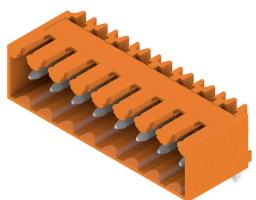
Pin headers for wave soldering in 3.50 mm pitch

- 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 3.50/14/90 4.5SN BK ...	Version
Order No.	<a href="#">161540000</a>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190054229	connection, 3.50 mm, Number of poles: 14, 90°, Solder pin length (l):
Qty.	50 ST	4.5 mm, tinned, black, Box

## SL 3.50/90G



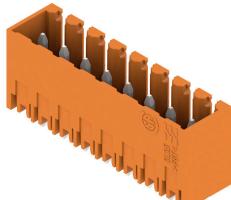
Pin headers for wave soldering in 3.50 mm pitch

- 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 3.50/14/90G 4.5SN BK...	Version
Order No.	<a href="#">161551000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190056254	connection, 3.50 mm, Number of poles: 14, 90°, Solder pin length (l):
Qty.	50 ST	4.5 mm, tinned, black, Box

## 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 3.50/14/180G 4.5SN B...	Version
Order No.	<a href="#">161612000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190067571	connection, 3.50 mm, Number of poles: 14, 180°, Solder pin length
Qty.	50 ST	(l): 4.5 mm, tinned, black, Box

## BL 3.50/14/180F SN OR BX

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## Counterpart

## 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 3.50/14/180G 3.2...	Version
Order No.	<a href="#">1842430000</a>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248353781	connection, 3.50 mm, Number of poles: 14, 180°, Solder pin length
Qty.	50 ST	(l): 3.2 mm, tinned, black, Box

## 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 3.50/14/90G 3.2S...	Version
Order No.	<a href="#">1841750000</a>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248353101	connection, 3.50 mm, Number of poles: 14, 90°, Solder pin length (l):
Qty.	50 ST	3.2 mm, tinned, black, 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

## BL 3.50/14/180F SN OR BX

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## Counterpart

## General ordering data

Type	SL-SMT 3.50/14/135F 3.2...	Version
Order No.	<a href="#">1003640000</a>	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248700264	connection, 3.50 mm, Number of poles: 14, 135°, Solder pin length
Qty.	30 ST	(l): 3.2 mm, tinned, black, Box

## SLD 3.50/90F

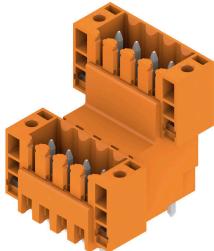


Two-tier pin header for wave soldering in 3.50 mm pitch. The connector is available in open, closed and flange versions. The male connectors provide space for labelling and can be coded. Packed in a cardboard box.

## General ordering data

Type	SLD 3.50/28/90F 3.2SN O...	Version
Order No.	<a href="#">1633930000</a>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190258382	3.50 mm, Number of poles: 28, 90°, Solder pin length (l): 3.2 mm,
Qty.	20 ST	tinned, orange, Box

## 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/28/180F 3.2 ...	Version
Order No.	<a href="#">1641300000</a>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190279707	3.50 mm, Number of poles: 28, 180°, Solder pin length (l): 3.2 mm,
Qty.	10 ST	tinned, orange, Box

## BL 3.50/14/180F SN OR BX

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## Counterpart

## SLD 3.50V/90F

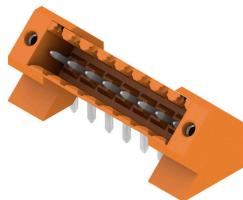


Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

## General ordering data

Type	SLD 3.50 V/28/90F 3.2 S...	Version
Order No.	<a href="#">1642430000</a>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190280956	3.50 mm, Number of poles: 28, 90°, Solder pin length (l): 3.2 mm,
Qty.	10 ST	tinned, orange, Box

## SL 3.50/135F

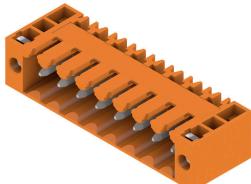


Pin headers for wave soldering in 3.50 mm pitch  
 • Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB  
 • Housing variant: screw flange (F)  
 • Packed in a cardboard box (BX)  
 • Pin header can be coded

## General ordering data

Type	SL 3.50/14/135F 3.2SN O...	Version
Order No.	<a href="#">1643450000</a>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190282219	3.50 mm, Number of poles: 14, 135°, Solder pin length (l): 3.2 mm,
Qty.	30 ST	tinned, orange, Box

## 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 3.50/14/90F 3.2SN OR...	Version
Order No.	<a href="#">1607160000</a>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190003340	3.50 mm, Number of poles: 14, 90°, Solder pin length (l): 3.2 mm,
Qty.	50 ST	tinned, orange, Box

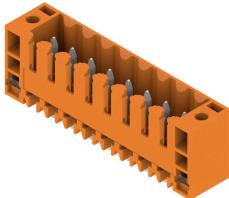
## BL 3.50/14/180F SN OR BX

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## Counterpart

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## 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 3.50/14/180F 3.2SN O...	Version
Order No.	<a href="#">1607620000</a>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190055196	3.50 mm, Number of poles: 14, 180°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Qty.	50 ST	
Type	SL 3.50/14/180F 4.5 SN ...	Version
Order No.	<a href="#">1616250000</a>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190069490	3.50 mm, Number of poles: 14, 180°, Solder pin length (l): 4.5 mm, tinned, black, Box
Qty.	50 ST	

## 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 3.50/14/180F 3.2...	Version
Order No.	<a href="#">1842890000</a>	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248354351	connection, 3.50 mm, Number of poles: 14, 180°, Solder pin length
Qty.	30 ST	(l): 3.2 mm, tinned, black, Box

## BL 3.50/14/180F SN OR BX

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## Counterpart

## 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 3.50/14/90F 3.2S...	Version
Order No.	<a href="#">1842200000</a>	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248353552	connection, 3.50 mm, Number of poles: 14, 90°, Solder pin length (l):
Qty.	30 ST	3.2 mm, tinned, black, Box

## 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 3.50/14/90LF 3.2...	Version
Order No.	<a href="#">1841970000</a>	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248353323	connection, 3.50 mm, Number of poles: 14, 90°, Solder pin length (l):
Qty.	30 ST	3.2 mm, tinned, black, Box

## 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

**BL 3.50/14/180F SN OR BX**

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**Counterpart****General ordering data**

Type	SL-SMT 3.50/14/180LF 3....	Version
Order No.	<a href="#">1842660000</a>	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248354023	connection, 3.50 mm, Number of poles: 14, 180°, Solder pin length
Qty.	30 ST	(I): 3.2 mm, tinned, black, Box