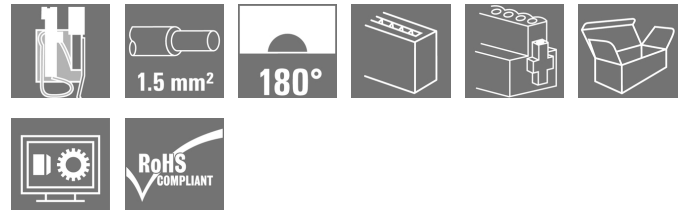


## OMNIMATE Signal - series BL/SL 3.50 BL-I/O 3.50/30FP SN BK BX

**Weidmüller Interface GmbH & Co. KG**  
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### Product image



Similar to illustration

Female plugs with spring connection (PUSH IN) as a plug-in connection level for decentralised I/O electronic components; used together with male headers in a 3.50-mm pitch.

### General ordering data

Type	BL-I/O 3.50/30FP SN BK BX
Order No.	<a href="#">1779910000</a>
Version	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 30, 180°, PUSH IN, Spring connection, Clamping range, max. : 1.5 mm², Box
GTIN (EAN)	4032248165230
Qty.	20 pc(s).
Product data	IEC: 200 V / 2.2 A / 0.2 - 1.5 mm² UL: 50 V / 5 A / AWG 24 - AWG 16
Packaging	Box

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**OMNIMATE Signal - series BL/SL 3.50  
BL-I/O 3.50/30FP SN BK BX**

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

Width	42 mm	Width (inches)	1.654 inch
Height	18.4 mm	Height (inches)	0.724 inch
Net weight	21.75 g		

**System Parameters**

Product family	OMNIMATE Signal - series BL/SL 3.50	Type of connection	Field connection
Wire connection method	PUSH IN, Spring connection	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	Conductor outlet direction	180°
Number of poles	30	L1 in mm	31.5 mm
L1 in inches	1.24 inch	Number of rows	1
Pin series quantity	1	Rated cross-section	1 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	8 mm	Tightening torque for screw flange, min.	0.15 Nm
Tightening torque for screw flange, max.	0.2 Nm	Screwdriver blade	0.4 x 2.5
Screwdriver blade standard	DIN 5264	Plugging force/pole, max.	6 N
Pulling force/pole, max.	6 N		

**Material data**

Insulating material	PBT	Colour	black
Colour of operational elements	grey, blue, red	Material of operational elements	PBT
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 base material	Copper alloy	Contact material	Copper alloy
Contact surface	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.	75 °C
Temperature range, installation, min.	-30 °C	Temperature range, installation, max.	75 °C

**Conductors suitable for connection**

Clamping range, min.	0.2 mm <sup>2</sup>
Clamping range, max.	1.5 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 24
Wire connection cross section AWG, max.	AWG 16
Solid, min. H05(07) V-U	0.2 mm <sup>2</sup>
Solid, max. H05(07) V-U	1.5 mm <sup>2</sup>
Stranded, max. H07V-R	1 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, 0.75 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 mm <sup>2</sup>

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**OMNIMATE Signal - series BL/SL 3.50**  
**BL-I/O 3.50/30FP 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; 1.9mm

Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	0.25 mm <sup>2</sup>
wire end ferrule		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	<a href="#">HO.25/12 HBL</a>
Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	0.34 mm <sup>2</sup>
wire end ferrule		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	<a href="#">HO.34/12 TK</a>
Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	0.5 mm <sup>2</sup>
wire end ferrule		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	<a href="#">HO.5/14 OR</a>
Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	0.75 mm <sup>2</sup>
wire end ferrule		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	<a href="#">HO.75/14T HBL</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)	2.2 A
Rated current, max. number of poles (Tu=20°C)	2 A	Rated current, min. number of poles (Tu=40°C)	2.2 A
Rated current, max. number of poles (Tu=40°C)	2 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	50 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	0.8 kV	Short-time withstand current resistance	3 x 1s with 120 A

**Rated data acc. to CSA**

Institute (CSA)		Certificate No. (CSA)	200039-1202189
Rated voltage (Use group B / CSA)	50 V	Rated voltage (Use group D / CSA)	50 V
Rated current (Use group B / CSA)	5 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 16
Reference to approval values	Specifications are maximum values, details - see approval certificate.		


# Data sheet

## OMNIMATE Signal - series BL/SL 3.50 BL-I/O 3.50/30FP SN BK BX

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# Technical data

### Rated data acc. to UL 1059

Institute (UR)		Certificate No. (UR)	E60693
Rated voltage (Use group B / UL 1059)	50 V	Rated voltage (Use group D / UL 1059)	50 V
Rated current (Use group B / UL 1059)	5 A	Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 16
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

### Packing

Packaging	Box	VPE length	1 mm
VPE width	1 mm	VPE height	1 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>• P on drawing = pitch</li> <li>• Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.</li> <li>• Total load-carrying capacity of the potential bridges when feeding with 1.5 mm<sup>2</sup> is max. 17.5 A (so the capacity is 2.18 A for poles 2 through 9)</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>• Conductor &lt; 0.2 mm<sup>2</sup> tinned</li> <li>• Max. outer diameter of the conductor: 2.9 mm</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>
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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.
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### Approvals

Approvals	
ROHS	Conform

**OMNIMATE Signal - series BL/SL 3.50  
BL-I/O 3.50/30FP SN BK BX**

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**Technical data****Downloads**

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Approval/Certificate/Document of Conformity	<a href="#">Declaration of the Manufacturer</a>
Brochure/Catalogue	<a href="#">FL DRIVES EN</a> <a href="#">MB DEVICE MANUF. EN</a> <a href="#">FL DRIVES DE</a> <a href="#">FL BUILDING SAFETY EN</a> <a href="#">FL APPL LED LIGHTING EN</a> <a href="#">FLIndustr.CONTROLS EN</a> <a href="#">FL MACHINE SAFETY EN</a> <a href="#">FL HEATING ELECTR EN</a> <a href="#">FL APPL INVERTER EN</a> <a href="#">FL_BASE_STATION_EN</a> <a href="#">FL ELEVATOR EN</a> <a href="#">FL POWER SUPPLY EN</a> <a href="#">FL 72H SAMPLE SER EN</a> <a href="#">PO OMNIMATE EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
Engineering Data	<a href="#">STEP</a>
White paper PUSH IN wire connection	<a href="#">Download Whitepaper</a>

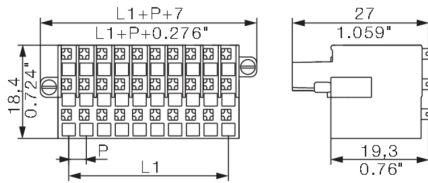
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**OMNIMATE Signal - series BL/SL 3.50  
BL-I/O 3.50/30FP SN BK BX**

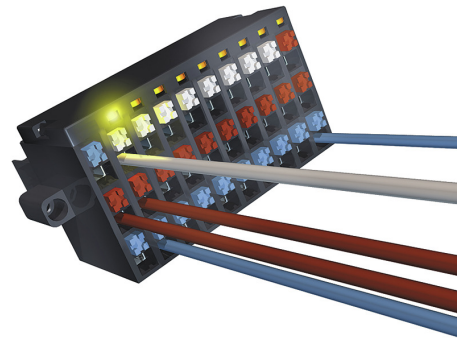
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**Drawings**

**Dimensional drawing**



**Product benefits**

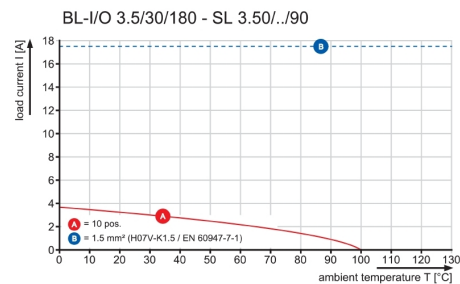
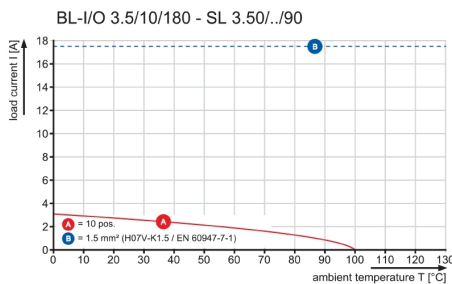


**PUSH IN - fast and secure**  
Invented by Weidmüller

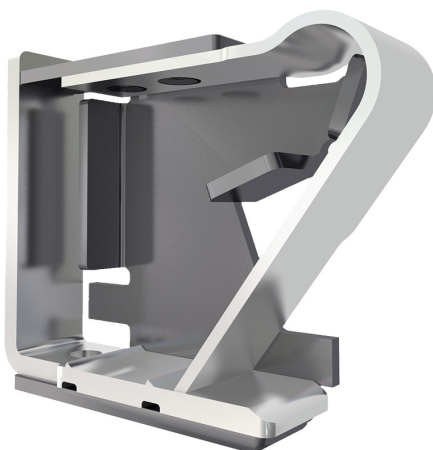
**Graph**

**Integrated electronics**  
For more space on the circuit board

**Graph**

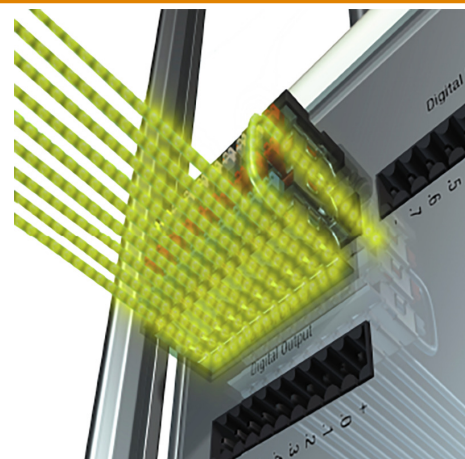


**Product benefits**



**Solid PUSH IN contact**  
Safe and durable

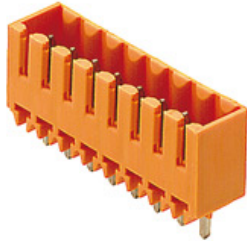
**Product benefits**



**Multiplies the potential**  
Low wiring costs

**OMNIMATE Signal - series BL/SL 3.50**  
**BL-I/O 3.50/30FP SN BK BX**

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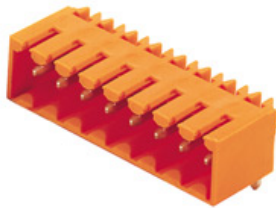
**Mating connector (conditionally pluggable)****SL 3.50/180G**

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 3.50/10/180G 3.2SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1604550000</a>	PCB plug-in connector, male header, closed side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190111663	connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length	UL: 300 V / 10 A	
Qty.	50 pc(s).	(I): 3.2 mm, tinned, orange, Box		
Type	SL 3.50/10/180G 4.5SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1604700000</a>	PCB plug-in connector, male header, closed side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190058616	connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length	UL: 300 V / 10 A	
Qty.	50 pc(s).	(I): 4.5 mm, tinned, orange, Box		
Type	SL 3.50/10/180G 4.5SN B ...	Version	Product data	Packaging
Order No.	<a href="#">1616080000</a>	PCB plug-in connector, male header, closed side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190065973	connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length	UL: 300 V / 10 A	
Qty.	50 pc(s).	(I): 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**

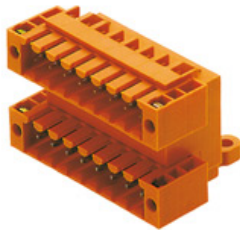
Type	SL 3.50/12/90G 3.2SN DK ...	Version	Product data	Packaging
Order No.	<a href="#">1744190000</a>	PCB plug-in connector, male header, closed side, THT solder	IEC: / 17 A	Box
GTIN (EAN)	4008190981716	connection, 3.50 mm, Number of poles: 12, 90°, Solder pin length (I):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, Signal green, Box		
Type	SL 3.50/10/90G 3.2SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1605150000</a>	PCB plug-in connector, male header, closed side, THT solder	IEC: / 17 A	Box
GTIN (EAN)	4008190183998	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (I):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, orange, Box		
Type	SL 3.50/10/90G 3.2SN GY ...	Version	Product data	Packaging
Order No.	<a href="#">1619540000</a>	PCB plug-in connector, male header, closed side, THT solder	IEC: / 17 A	Box
GTIN (EAN)	4008190142254	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (I):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, Pebble grey, Box		

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**Mating connector (conditionally pluggable)**

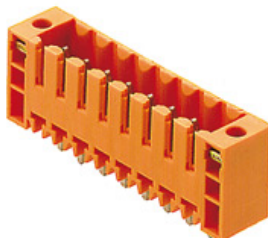
Type	SL 3.50/10/90G 3.2SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1689780000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 3.2 mm, tinned, black, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190860738			
Qty.	50 pc(s).			
Type	SL 3.50/10/90G 3.2SN DK ...	Version	Product data	Packaging
Order No.	<a href="#">1606970000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 3.2 mm, tinned, Signal green, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190075095			
Qty.	50 pc(s).			
Type	SL 3.50/10/90G 4.5 SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1605300000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 4.5 mm, tinned, orange, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190101411			
Qty.	50 pc(s).			
Type	SL 3.50/10/90G 4.5SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1615470000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 4.5 mm, tinned, black, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190055677			
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 3.50/20/90F 3.2SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1633890000</a>	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 20, 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)	4008190258344			
Qty.	20 pc(s).			

**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 3.50/10/180F 4.5SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1618760000</a>	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length (l): 4.5 mm, tinned, orange, Box	IEC: 320 V / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190127473			
Qty.	50 pc(s).			

Creation date May 3, 2020 1:16:23 PM CEST



## OMNIMATE Signal - series BL/SL 3.50 BL-I/O 3.50/30FP SN BK BX

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### Mating connector (conditionally pluggable)

Type	SL 3.50/10/180F 3.2SN G ...	Version	Product data	Packaging
Order No.	<a href="#">1622340000</a>	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190190040	3.50 mm, Number of poles: 10, 180°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, Pebble grey, Box		
Type	SL 3.50/10/180F 3.2SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1607580000</a>	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190187545	3.50 mm, Number of poles: 10, 180°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, orange, Box		
Type	SL 3.50/10/180F 3.2SN D ...	Version	Product data	Packaging
Order No.	<a href="#">1622560000</a>	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190193225	3.50 mm, Number of poles: 10, 180°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, Signal green, Box		
Type	SL 3.50/10/180F 4.5 SN ...	Version	Product data	Packaging
Order No.	<a href="#">1616210000</a>	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190068929	3.50 mm, Number of poles: 10, 180°, Solder pin length (l): 4.5 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, black, Box		

### 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 3.50/10/90F 1.5S ...	Version	Product data	Packaging
Order No.	<a href="#">1762082001</a>	PCB plug-in connector, male header, Flange, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248132492	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	42 pc(s).	1.5 mm, tinned, black, Box		

**OMNIMATE Signal - series BL/SL 3.50  
BL-I/O 3.50/30FP SN BK BX**

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**Mating connector (conditionally pluggable)**
**SL-SMT 3.5/90LF Tape**


**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 3.50/10/90LF 1.5 ...	Version	Product data	Packaging
Order No.	<a href="#">1005180000</a>	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 1.5 mm, tinned, black, Tape	IEC: 320 V / 15 A UL: 300 V / 10 A	Tape
GTIN (EAN)	4032248704545			
Qty.	385 pc(s).			

**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 3.50/10/135F 3.2SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1643410000</a>	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 10, 135°, Solder pin length (l): 3.2 mm, tinned, orange, Box	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190282172			
Qty.	42 pc(s).			

**OMNIMATE Signal - series BL/SL 3.50  
BL-I/O 3.50/30FP SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
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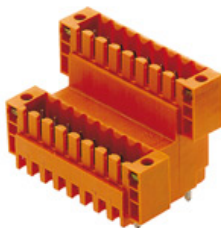
**Mating connector (conditionally pluggable)**
**SL-SMT 3.5/90G Tray**


**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 3.50/10/90G 1.5S ...	Version	Product data	Packaging
Order No.	<a href="#">1761623001</a>	PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 1.5 mm, tinned, black, Tray	IEC: 320 V / 15 A	Tray
GTIN (EAN)	4032248133895		UL: 300 V / 10 A	
Qty.	42 pc(s).			

**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/20/180F 3.2 ...	Version	Product data	Packaging
Order No.	<a href="#">1641280000</a>	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 20, 180°, Solder pin length (l): 3.2 mm, tinned, orange, Box	IEC: 200 V / 10.5 A	Box
GTIN (EAN)	4008190279684		UL: 300 V / 8 A	
Qty.	20 pc(s).			

**OMNIMATE Signal - series BL/SL 3.50  
BL-I/O 3.50/30FP SN BK BX**

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


**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 3.50/10/90G 1.5S ...	Version	Product data	Packaging
Order No.	<a href="#">1761624001</a>	PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 1.5 mm, tinned, black, Tape	IEC: 320 V / 15 A	Tape
GTIN (EAN)	4032248136063		UL: 300 V / 10 A	
Qty.	385 pc(s).			

**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 3.50/10/90LF 3.2 ...	Version	Product data	Packaging
Order No.	<a href="#">1841940000</a>	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 3.2 mm, tinned, black, Box	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248353293		UL: 300 V / 10 A	
Qty.	42 pc(s).			

**OMNIMATE Signal - series BL/SL 3.50  
BL-I/O 3.50/30FP SN BK BX**

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**Mating connector (conditionally pluggable)**

Type	SL-SMT 3.50/10/90LF 1.5 ...	Version	Product data	Packaging
Order No.	<a href="#">1805020000</a>	PCB plug-in connector, male header, Solder flange, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248268924	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	42 pc(s).	1.5 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**

**General ordering data**

Type	SL-SMT 3.50/10/135F 3.2 ...	Version	Product data	Packaging
Order No.	<a href="#">1003590000</a>	PCB plug-in connector, male header, Flange, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248700219	connection, 3.50 mm, Number of poles: 10, 135°, Solder pin length	UL: 300 V / 10 A	
Qty.	42 pc(s).	(l): 3.2 mm, tinned, black, Box		

**OMNIMATE Signal - series BL/SL 3.50  
BL-I/O 3.50/30FP SN BK BX**

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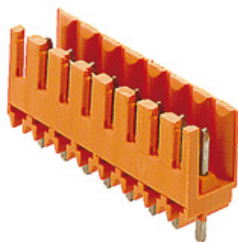
**Mating connector (conditionally pluggable)**
**SL-SMT 3.5/180F Box**


**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 3.50/10/180F 3.2 ...	Version	Product data	Packaging
Order No.	<a href="#">1842850000</a>	PCB plug-in connector, male header, Flange, THT/THR solder connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length (l): 3.2 mm, tinned, black, Box	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
GTIN (EAN)	4032248354313			
Qty.	42 pc(s).			

**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 3.50/10/180 3.2SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1604850000</a>	PCB plug-in connector, male header, open side, THT solder connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length (l): 3.2 mm, tinned, orange, Box	IEC: 320 V / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190096649			
Qty.	50 pc(s).			

**OMNIMATE Signal - series BL/SL 3.50  
BL-I/O 3.50/30FP SN BK BX**

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**Mating connector (conditionally pluggable)**
**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 3.50/10/180G 1.5 ...	Version	Product data	Packaging
Order No.	<a href="#">1753063001</a>	PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length (l): 1.5 mm, tinned, black, Tray	IEC: 320 V / 15 A UL: 300 V / 10 A	Tray
GTIN (EAN)	4032248132799			
Qty.	42 pc(s).			

**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 3.50/10/90G 1.5S ...	Version	Product data	Packaging
Order No.	<a href="#">1761622001</a>	PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 1.5 mm, tinned, black, Box	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
GTIN (EAN)	4032248132218			
Qty.	50 pc(s).			

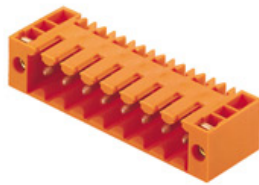
## OMNIMATE Signal - series BL/SL 3.50 BL-I/O 3.50/30FP SN BK BX

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### Mating connector (conditionally pluggable)

Type	SL-SMT 3.50/10/90G 3.2S ...	Version	Product data	Packaging
Order No.	<a href="#">1841710000</a>	PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 3.2 mm, tinned, black, Box	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
GTIN (EAN)	4032248353064			
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

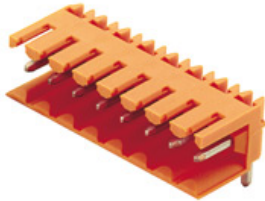
### General ordering data

Type	SL 3.50/10/90F 3.2SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1607120000</a>	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190079710			
Qty.	50 pc(s).			
Type	SL 3.50/10/90F 4.5SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1618130000</a>	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 4.5 mm, tinned, orange, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190116941			
Qty.	50 pc(s).			
Type	SL 3.50/10/90F 4.5 SN B ...	Version	Product data	Packaging
Order No.	<a href="#">1615600000</a>	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 4.5 mm, tinned, black, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190057633			
Qty.	50 pc(s).			
Type	SL 3.50/10/90F 3.2SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1681720000</a>	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 3.2 mm, tinned, black, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190472528			
Qty.	50 pc(s).			
Type	SL 3.50/10/90F 3.2SN DK ...	Version	Product data	Packaging
Order No.	<a href="#">1620140000</a>	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 3.2 mm, tinned, Signal green, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190152437			
Qty.	50 pc(s).			
Type	SL 3.50/10/90F 3.2SN GY ...	Version	Product data	Packaging
Order No.	<a href="#">1619930000</a>	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 3.2 mm, tinned, Pebble grey, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190149222			
Qty.	50 pc(s).			



**OMNIMATE Signal - series BL/SL 3.50  
BL-I/O 3.50/30FP SN BK BX**

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**Mating connector (conditionally pluggable)****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 3.50/10/90 3.2SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1597290000</a>	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190165277	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, orange, Box		
Type	SL 3.50/10/90 3.2SN GY ...	Version	Product data	Packaging
Order No.	<a href="#">1619150000</a>	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190134709	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, Pebble grey, Box		
Type	SL 3.50/10/90 4.5SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1605450000</a>	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190138363	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	4.5 mm, tinned, orange, Box		
Type	SL 3.50/10/90 4.5SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1615360000</a>	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190053024	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	4.5 mm, tinned, black, Box		
Type	SL 3.50/10/90 3.2SN DKG ...	Version	Product data	Packaging
Order No.	<a href="#">1606850000</a>	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190154721	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, Signal green, Box		
Type	SL 3.50/10/90 3.2SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1663790000</a>	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190420475	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, black, Box		

## OMNIMATE Signal - series BL/SL 3.50 BL-I/O 3.50/30FP SN BK BX

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### Mating connector (conditionally pluggable)

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



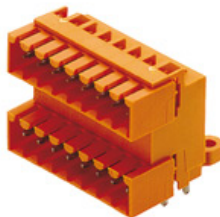
**High-temperature-resistant male header, 3.50 mm pitch.**

- **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 3.50/10/180LF 1. ...	Version	Product data	Packaging
Order No.	<a href="#">1804780000</a>	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length (l): 1.5 mm, tinned, black, Box	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
GTIN (EAN)	4032248268566			
Qty.	42 pc(s).			
Type	SL-SMT 3.50/10/180LF 3. ...	Version	Product data	Packaging
Order No.	<a href="#">1842620000</a>	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length (l): 3.2 mm, tinned, black, Box	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
GTIN (EAN)	4032248353989			
Qty.	42 pc(s).			

#### 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 3.50/20/90G 3.2SN D ...	Version	Product data	Packaging
Order No.	<a href="#">1674940000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 20, 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)	4008190445638			
Qty.	20 pc(s).			
Type	SLD 3.50/20/90G 3.2SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1633660000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 20, 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)	4008190258115			
Qty.	20 pc(s).			

## Data sheet

### OMNIMATE Signal - series BL/SL 3.50 BL-I/O 3.50/30FP SN BK BX

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### Mating connector (conditionally pluggable)

Type	SLD 3.50/20/90G 4.5SN B ...	Version	Product data	Packaging
Order No.	<a href="#">1634350000</a>	PCB plug-in connector, male header, closed side, THT solder	IEC: 200 V / 10.5 A	Box
GTIN (EAN)	4008190258801	connection, 3.50 mm, Number of poles: 20, 90°, Solder pin length (!):	UL: 300 V / 8 A	
Qty.	20 pc(s).	4.5 mm, tinned, black, Box		

**OMNIMATE Signal - series BL/SL 3.50  
BL-I/O 3.50/30FP SN BK BX**

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**Accessories**

**Slotted screwdriver**

Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip



**General ordering data**

Type	SDS 0.4X2.5X75	Version
Order No.	<a href="#">9009030000</a>	Screwdriver, Blade width (B): 2.5 mm, Blade length: 75 mm, Blade thickness (A): 0.4 mm
GTIN (EAN)	4032248266944	
Qty.	1 pc(s).	

**PZ**

**Crimping tools for wire end ferrules, with and without plastic collars**

- Ratchet guarantees precise crimping
- Release option in the event of incorrect operation



**General ordering data**

Type	PZ 6/5	Version
Order No.	<a href="#">9011460000</a>	Pressing tool, Crimping tool for wire-end ferrules, 0.25mm <sup>2</sup> , 6mm <sup>2</sup> , Trapezoidal indentation crimp
GTIN (EAN)	4008190165352	
Qty.	1 pc(s).	
Type	PZ 1.5	Version
Order No.	<a href="#">9005990000</a>	Pressing tool, Crimping tool for wire-end ferrules, 0.14mm <sup>2</sup> , 1.5mm <sup>2</sup> , Trapezoidal crimp
GTIN (EAN)	4008190085964	
Qty.	1 pc(s).	

## Data sheet

### OMNIMATE Signal - series BL/SL 3.50 BL-I/O 3.50/30FP SN BK BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

## Accessories

### Slotted screwdriver

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip



### General ordering data

Type	SDIS 0.4X2.5X75	Version
Order No.	<a href="#">9008370000</a>	Screwdriver, Blade width (B): 2.5 mm, Blade length: 75 mm, Blade thickness (A): 0.4 mm
GTIN (EAN)	4032248056330	
Qty.	1 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	Version	Product data	Packaging
BL SL 3.5 KO SW	PCB plug-in connector, Accessories, Coding element, black, Number of poles: 1		Box
Order No.	<a href="#">1610100000</a>		
GTIN (EAN)	4008190187637		
Qty.	100 pc(s).		
BL SL 3.5 KO OR	PCB plug-in connector, Accessories, Coding element, orange, Number of poles: 1		Box
Order No.	<a href="#">1693430000</a>		
GTIN (EAN)	4008190867447		
Qty.	100 pc(s).		

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**Accessories**
**Additional accessories**

**No task is too small when creating the perfect solution.**

Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but useful details:

- Test plugs - ensure reliable pick-up from diagnostic sockets
- Cross-connectors - ensure a stable electrical distribution contact directly at the connection
- Compartment partition elements - divide a large number of male connectors into several separate socket connector channels
- Locks and clips - optional vibration-resistant clip-on connection or mounting for male and female connectors

In tandem with the manufacturing process and application - more accessories = smaller workload

**General ordering data**

Type	BL-I/O Jumper Set	Version	Product data	Packaging
Order No.	<a href="#">1858970000</a>	PCB plug-in connector, Accessories, red / blue		Box
GTIN (EAN)	4032248410590			
Qty.	1 pc(s).			