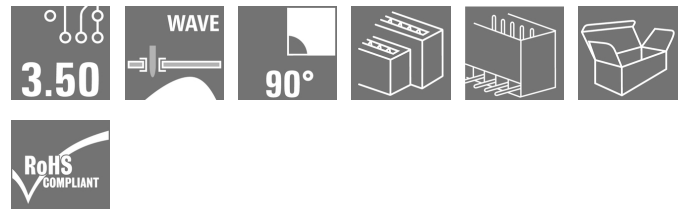


## OMNIMATE Signal - series BL/SL 3.50 SLD 3.50/24/90G 3.2SN OR BX

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



Similar to illustration

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 3.50/24/90G 3.2SN OR BX
Order No.	<a href="#">1633680000</a>
Version	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 24, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box
GTIN (EAN)	4008 190258 139
Qty.	10 pc(s).
Product data	IEC: 200 V / 10.5 A UL: 300 V / 8 A
Packaging	Box

Creation date May 3, 2020 6:33:27 PM CEST

**OMNIMATE Signal - series BL/SL 3.50  
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**Technical data****Dimensions and weights**

Width	43.4 mm	Width (inches)	1.709 inch
Height	26.5 mm	Height (inches)	1.043 inch
Height of lowest version	23.3 mm	Depth	24.7 mm
Depth (inches)	0.972 inch	Net weight	16 g

**System specifications**

Product family	OMNIMATE Signal - series BL/SL 3.50	Type of connection	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	Outgoing elbow	90°
Number of poles	24	Number of solder pins per pole	1
Solder pin length (l)	3.2 mm	Solder pin length tolerance	0 / -0.3 mm
Tolerance of solder pin position	± 0.15 mm	Solder pin dimensions	d = 1.2 mm, Octagonal
Solder pin dimensions = d tolerance	0 / -0.03 mm	Solder eyelet hole diameter (D)	1.4 mm
Solder eyelet hole diameter tolerance (D)+	0, 1 mm	L1 in mm	38.5 mm
L1 in inches	1.516 inch	Number of rows	2
Pin series quantity	2	Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch
Touch-safe protection acc. to DIN VDE 0470	IP 10	Volume resistance	≤ 5mΩ
Can be coded	Yes	Plugging cycles	25
Plugging force/pole, max.	10 N	Pulling force/pole, max.	8 N

**Material data**

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	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	CuSn	Contact surface	tinned
Layer structure of solder connection	2-3 μm Ni / 5-7 μm Sn glossy	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

**Rated data acc. to IEC**

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	10.5 A
Rated current, max. number of poles (Tu=20°C)	8 A	Rated current, min. number of poles (Tu=40°C)	9 A
Rated current, max. number of poles (Tu=40°C)	7 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	125 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 80 A

**OMNIMATE Signal - series BL/SL 3.50  
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**Technical data****Rated data acc. to CSA**

Institute (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) 8 A

Rated current (Use group D / CSA) 8 A

Reference to approval values

Specifications are maximum values, details - see approval certificate.

**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) 8 A

Rated current (Use group D / UL 1059) 8 A

Reference to approval values

Specifications are maximum values, details - see approval certificate.

**Packing**

Packaging	Box	VPE length	39 mm
VPE width	91 mm	VPE height	128 mm

**Classifications**

ETIM 6.0	EC002637	ETIM 7.0	EC002637
eClass 9.0	27-44-04-02	eClass 9.1	27-44-04-02
eClass 10.0	27-44-04-02	UNSPSC	30-21-18-10

**Notes**

Notes

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- 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.

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  
SLD 3.50/24/90G 3.2SN OR 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](#)  
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[FL ELEVATOR EN](#)  
[FL POWER SUPPLY EN](#)  
[FL 72H SAMPLE SER EN](#)  
[PO OMNIMATE EN](#)

Engineering Data

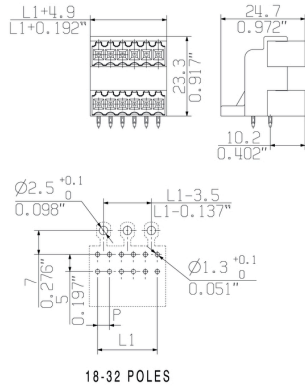
[SLD.zip](#)

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**Drawings**

**Dimensional drawing**



**OMNIMATE Signal - series BL/SL 3.50  
SLD 3.50/24/90G 3.2SN OR BX**

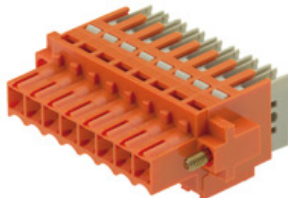
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**Mating connector (conditionally pluggable)**
**BL 3.50/180LH**


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 3.50/12/180LH SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1687980000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190853532	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	36 pc(s).	Box		
Type	BL 3.50/12/180LH SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1687750000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190853303	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	36 pc(s).	Box		

**BLIDC 3.5F SN**


Female connectors for fast processing with insulation displacement connectors (IDC) for connecting wires at 3.50 pitch. They provide space for labelling and can be coded.

**General ordering data**

Type	BLIDC 3.50/12/180F SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1751190000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 6 A / 0.2 - 0.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248146741	90°/270°, IDC terminal, Clamping range, max. : 0.5 mm <sup>2</sup> , Box	UL: 300 V / 7 A / AWG 22 - AWG 20	
Qty.	50 pc(s).			

**OMNIMATE Signal - series BL/SL 3.50  
SLD 3.50/24/90G 3.2SN OR BX**

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


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 3.50/12/180F SN OR BX	Version	Product data	Packaging
Order No.	<a href="#">1606740000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190147181	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	36 pc(s).	Box		
Type	BL 3.50/12/180F SN BK BX	Version	Product data	Packaging
Order No.	<a href="#">1615880000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190063924	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	36 pc(s).	Box		
Type	BL 3.50/12/180F SN OR B ...	Version	Product data	Packaging
Order No.	<a href="#">1740761001</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190961794	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	36 pc(s).	Box		
Type	BL 3.50/12/180F SN GY BX	Version	Product data	Packaging
Order No.	<a href="#">1621020000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190167752	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	50 pc(s).	Box		
Type	BL 3.50/12/180F SN DKG...	Version	Product data	Packaging
Order No.	<a href="#">1621230000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190169855	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	50 pc(s).	Box		

**BL 3.50/90F**


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 3.50/12/90F SN OR BX	Version	Product data	Packaging
Order No.	<a href="#">1639110000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190276652	90°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> , Box	UL: 300 V / 8 A / AWG 28 - AWG 14	
Qty.	36 pc(s).			

**OMNIMATE Signal - series BL/SL 3.50  
SLD 3.50/24/90G 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**

Type	BL 3.50/12/90F SN BK BX	Version	Product data	Packaging
Order No.	<a href="#">1639340000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190276881	90°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> , Box	UL: 300 V / 8 A / AWG 28 - AWG 14	
Qty.	36 pc(s).			

**BL 3.50/270F**


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 3.50/12/270F SN BK BX	Version	Product data	Packaging
Order No.	<a href="#">1640260000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190277840	270°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 8 A / AWG 28 - AWG 14	
Qty.	36 pc(s).	Box		
Type	BL 3.50/12/270F SN OR BX	Version	Product data	Packaging
Order No.	<a href="#">1640030000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190277581	270°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 8 A / AWG 28 - AWG 14	
Qty.	36 pc(s).	Box		



**OMNIMATE Signal - series BL/SL 3.50  
SLD 3.50/24/90G 3.2SN OR BX**

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**Mating connector (fully pluggable)**
**BLZF 3.5/180**


Female connectors with tension clamp system for connecting cables in 3.50 pitch. They provide space for labelling and can be coded.

**General ordering data**

Type	BLZF 3.50/12/180 SN DKG ...	Version	Product data	Packaging
Order No.	<a href="#">1690750000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 14.5 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190329266	180°, Tension-clamp connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 10 A / AWG 26 - AWG 14	
Qty.	50 pc(s).	Box		

**BL 3.50/90**


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 3.50/12/90 SN OR BX	Version	Product data	Packaging
Order No.	<a href="#">1638650000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190276195	90°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> , Box	UL: 300 V / 8 A / AWG 28 - AWG 14	
Qty.	42 pc(s).			
Type	BL 3.50/12/90 SN BK BX	Version	Product data	Packaging
Order No.	<a href="#">1638880000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190276423	90°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> , Box	UL: 300 V / 8 A / AWG 28 - AWG 14	
Qty.	42 pc(s).			

**OMNIMATE Signal - series BL/SL 3.50  
SLD 3.50/24/90G 3.2SN OR BX**

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**Mating connector (fully pluggable)****BL 3.50/270**

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 3.50/12/270 SN BK BX	Version	Product data	Packaging
Order No.	<a href="#">1639800000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190277352	270°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 8 A / AWG 28 - AWG 14	
Qty.	42 pc(s).	Box		
Type	BL 3.50/12/270 SN OR BX	Version	Product data	Packaging
Order No.	<a href="#">1639570000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190277123	270°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 8 A / AWG 28 - AWG 14	
Qty.	42 pc(s).	Box		

**BL 3.50/180**

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 3.50/12/180 SN BK BX	Version	Product data	Packaging
Order No.	<a href="#">1615730000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190060817	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	42 pc(s).	Box		
Type	BL 3.50/12/180 SN OR BX ...	Version	Product data	Packaging
Order No.	<a href="#">1674790000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190444594	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	42 pc(s).	Box		
Type	BL 3.50/12/180 SN OR BX	Version	Product data	Packaging
Order No.	<a href="#">1597460000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190192037	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	42 pc(s).	Box		
Type	BL 3.50/12/180 SN GY BX	Version	Product data	Packaging
Order No.	<a href="#">1620550000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190159108	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	50 pc(s).	Box		

**OMNIMATE Signal - series BL/SL 3.50  
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**Mating connector (fully pluggable)**

Type	BL 3.50/12/180 SN DKGN ...	Version	Product data	Packaging
Order No.	<a href="#">1606590000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190130299	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	42 pc(s).	Box		

**BLF 3.50/180**

Connect efficiently - in a small space: female header with spring connection (PUSH IN) as a plug-in connection level; used together with male headers in 3.50 mm pitch.

**General ordering data**

Type	BLF 3.50/12/180 SN OR BX	Version	Product data	Packaging
Order No.	<a href="#">2459150000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 17.5 A / 0.14 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4050118474503	180°, PUSH IN, Spring connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / AWG 26 - AWG 16	
Qty.	42 pc(s).	Box		
Type	BLF 3.50/12/180 SN BK BX	Version	Product data	Packaging
Order No.	<a href="#">2459380000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 17.5 A / 0.14 - 1.5 mm <sup>2</sup>	Box
GTIN (EAN)	4050118474732	180°, PUSH IN, Spring connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,	UL: 300 V / AWG 26 - AWG 16	
Qty.	42 pc(s).	Box		

**BLIDC 3.5 SN**

Female connectors for fast processing with insulation displacement connectors (IDC) for connecting wires at 3.50 pitch. They provide space for labelling and can be coded.

**General ordering data**

Type	BLIDC 3.50/12/180 SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1750890000</a>	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12,	IEC: 320 V / 6 A / 0.2 - 0.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248146192	90°/270°, IDC terminal, Clamping range, max. : 0.5 mm <sup>2</sup> ,	UL: 300 V / 7 A / AWG 22 - AWG 20	
Qty.	50 pc(s).	Box		

## OMNIMATE Signal - series BL/SL 3.50 SLD 3.50/24/90G 3.2SN OR BX

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# Accessories

## 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).			

## Recommended wave soldering profiles

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### Single Wave:



### Double Wave:



### Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.