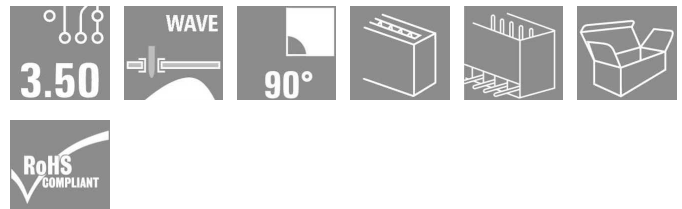
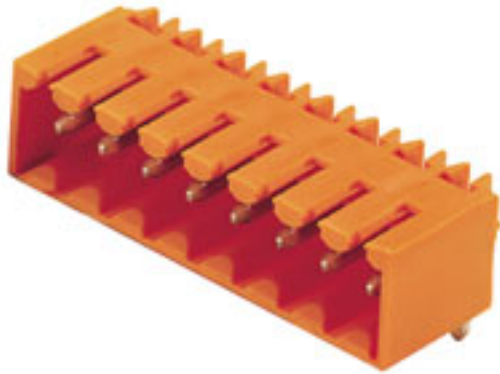


OMNIMATE Signal - series BL/SL 3.50
SL 3.50/09/90G 3.2SN OR BX

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Male header with 3.50 mm pitch for wave soldering

- Plugging direction angled to the PCB (135°)
- Housing variant: screw flange (F)
- Packaged in cardboard box (BX)
- Male header can be coded

250 V (IEC) / 300 V (UL)
17 A (IEC) / 10 A (UL)

General ordering data

Type	SL 3.50/09/90G 3.2SN OR BX
Order No.	1605140000
Version	PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 9, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box
GTIN (EAN)	4008190137731
Qty.	50 pc(s).
Product data	IEC: 320 V / 17 A UL: 300 V / 10 A
Packaging	Box

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Technical data

Dimensions and weights

Net weight 2.82 g

System parameters

Product family	OMNIMATE Signal - series BL/SL 3.50	Mounting onto the PCB	Solder connection
Outgoing elbow	90°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	No. of poles	9
Solder pin length (l)	3.2 mm	Pin dimensions	d = 1.2 mm, Octagonal
Can be coded	Yes	Number of solder pins per pole	1
Solder eyelet hole diameter (D)	1.3 mm	Solder eyelet hole diameter tolerance (D)+ 0,1 mm	
L1 in mm	28 mm	L1 in inches	1.102 inch
Insulation resistance	10 ³ Ω	Touch-safe protection acc. to DIN VDE 0470	IP 10
Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch		

Material data

Insulating material	PBT	Colour	Orange
Insulating material group	IIIa	UL 94 flammability rating	V-0
CTI	≥ 200	Contact material	CuSn
Contact surface	tinned	Max. relative humidity during storage	80 %

DIN IEC rating data

Rated current, min. no. of poles (Tu=20°C)	17 A	Rated current, max. no. of poles (Tu=20°C)	12 A
Rated current, number of poles (Tu=40°C), min	14.5 A	Rated current, number of poles (Tu=40°C), max.	10 A
Rated voltage for surge voltage class pollution degree III/3	160 V	Rated impulse voltage for surge voltage classcontamination degree III/3	2.5 kV
Rated voltage for surge voltage class pollution degree III/2	160 V	Rated impulse voltage for surge voltage classpollution degree III/2	2.5 kV
Rated voltage for surge voltage class pollution degree II/2	320 V	Rated impulse voltage for surge voltage classpollution degree II/2	2.5 kV
Short-time withstand current resistance	3 x 1s with 100 A		

CSA rating data

Institute (CSA)		Rated voltage (Use group B)	300 V
Rated current (use group B)	10 A	Rated voltage (use group D)	300 V
Rated current (use group D)	10 A		

UL 1059 rating data

Institute (UR)		Rated voltage (use group B)	300 V
Rated current (use group B)	10 A	Rated voltage (use group D)	300 V
Rated current (use group D)	10 A		

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Technical data

Classifications

ETIM 3.0	EC001284	UNSPSC	30-21-18-10
eClass 5.1	27-26-07-04	eClass 6.2	27-26-07-04
eClass 7.1	27-44-04-02		

Notes

Notes

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

Approvals

Approvals



ROHS

Conform

Downloads

CAD Library (P-CAD Format - ASCII) [SL.zip](#)CAD Library (P-CAD Format - Standard) [SL.zip](#)[3-D model](#)

OMNIMATE Signal - series BL/SL 3.50
SL 3.50/09/90G 3.2SN OR BX**Weidmüller Interface GmbH & Co. KG**

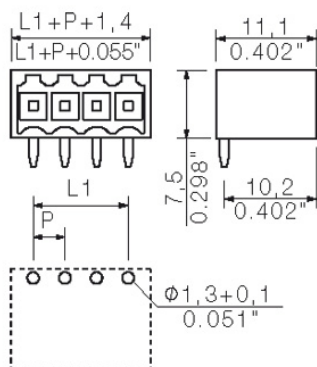
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www.weidmueller.com**Drawings**

OMNIMATE Signal - series BL/SL 3.50

SL 3.50/09/90G 3.2SN OR BX

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Mating connector (fully pluggable)

BL 3.50/180



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

- 0.20 - 1.5 mm² (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/09/180 SN BK BX	1615710000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 9, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190060251	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/09/180 SN OR BX	1597430000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 9, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190192006	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box

BL 3.50/90



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

- 0.20 - 1.5 mm² (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/09/90 SN BK BX	1638850000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 9, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276393	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/09/90 SN OR BX	1638620000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 9, 90°, Clamping yoke connection, Clamping	4008190276164	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

OMNIMATE Signal - series BL/SL 3.50 SL 3.50/09/90G 3.2SN OR BX

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Mating connector (fully pluggable)

range, rated connection,
max.: 1.5 mm², Box

BL 3.50/270



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

- 0.20 - 1.5 mm² (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/09/270 SN OR BX	1639540000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 9, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277093	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/09/270 SN BK BX	1639770000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 9, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277321	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

OMNIMATE Signal - series BL/SL 3.50 SL 3.50/09/90G 3.2SN OR BX

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Mating connector (conditionally pluggable)

BL 3.50/270F



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

- 0.20 - 1.5 mm² (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/09/270F SN BK BX	1640230000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 9, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277796 50 pc(s).		IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/09/270F SN OR BX	1640000000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 9, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277550 50 pc(s).		IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

BL 3.50/180LH



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

- 0.20 - 1.5 mm² (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/09/180LH SN BK BX	1687950000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 9, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190853501 50 pc(s).		IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/09/180LH SN OR BX	1687720000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 9, 180°, Clamping yoke connection, Clamping	4008190853273 50 pc(s).		IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box

OMNIMATE Signal - series BL/SL 3.50 SL 3.50/09/90G 3.2SN OR BX

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Mating connector (conditionally pluggable)

range, rated connection,
max.: 1.5 mm², Box

BL 3.50/180F



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

- 0.20 - 1.5 mm² (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/09/180F SN OR BX	1606710000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 9, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190084202	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/09/180F SN BK BX	1615850000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 9, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190063122	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box

BL 3.50/90F



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

- 0.20 - 1.5 mm² (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/09/90F SN BK BX	1639310000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 9, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276850	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/09/90F SN OR BX	1639080000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 9, 90°, Clamping	4008190276621	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

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SL 3.50/09/90G 3.2SN OR BX

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Mating connector (conditionally pluggable)

yoke connection, Clamping
range, rated connection,
max.: 1.5 mm², Box

