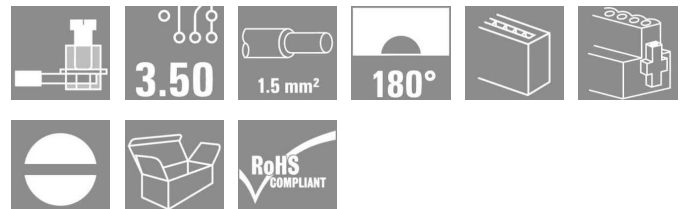


OMNIMATE Signal - series BL/SL 3.50 BL 3.50/03/180F SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com



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 3.50/03/180F SN OR BX
Order No.	1606650000
Version	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box
GTIN (EAN)	4008190123062
Qty.	102 pc(s).
Product data	IEC: 320 V / 17 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 14
Packaging	Box

OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 1429-0
 Fax: +49 5231 14292083
 www.weidmueller.com

Technical data
Dimensions and weights

Net weight 3.392 g

System parameters

Product family		Type of connection	
Product family	OMNIMATE Signal - series BL/SL 3.50	Type of connection	Field connection
Wire connection method	Clamping yoke connection	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	Conductor outlet direction	180°
No. of poles	3	L1 in mm	7 mm
L1 in inches	0.276 inch	Number of rows	1
Pin series quantity	1	Rated cross-section	1.5 mm ²
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Can be coded	Yes	Stripping length	6 mm
Tightening torque for screw flange, min.	0.2 Nm	Tightening torque for screw flange, max.	0.25 Nm
Tightening torque, min.	0.2 Nm	Tightening torque, max.	0.25 Nm
Clamping screw	M 2	Screwdriver blade	0.4 x 2.5
Screwdriver blade standard	DIN 5264	Plugging cycles	25
push-in force/pole	10 N	Withdrawal force per pole	4 N
Packaging	Box		

Material data

Insulating material	PBT	Colour	Orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
CTI	≥ 200	Insulation resistance	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	Contact material	Copper alloy
Contact surface	tinned	Layer structure of plug contact	4-8 μm Sn hot-dip tinned
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %	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, rated connection, min.	0.08 mm ²	Clamping range, rated connection, max.	1.5 mm ²
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 ²	Solid, max. H05(07) V-U	1.5 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²	Flexible, max. H05(07) V-K	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	1.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²
Plug gauge acc. to EN 60999 a x b; Ø	2.4 mm x 1.5 mm		

OMNIMATE Signal - series BL/SL 3.50 BL 3.50/03/180F SN OR BX


Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

Technical data


Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Ta = 20°C)	17 A
Rated current, max. no. of poles (Ta = 20°C)	12 A	Rated current, min. no. of poles (Ta = 40°C)	14.5 A
Rated current, max. no. of poles (Ta = 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)		Certificate No. (CSA)	154685-1318353
Rated voltage (Use group B)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	10 A	Rated current (use group D)	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)		Certificate No. (UR)	E60693
Rated voltage (use group B)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	10 A	Rated current (use group D)	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.		

Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002637
ETIM 5.0	EC002637	ETIM 6.0	EC002637
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
eClass 8.1	27-44-04-02	eClass 9.0	27-44-04-02
eClass 9.1	27-44-04-02		

Data sheet

**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

Technical data

Notes

Notes	<ul style="list-style-type: none"> • Additional colours 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.
IPC conformity	The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.

Approvals

Approvals



ROHS

Conform

Downloads

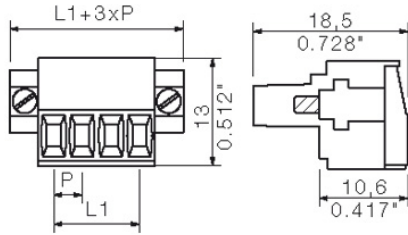
Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN FL DRIVES DE

**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

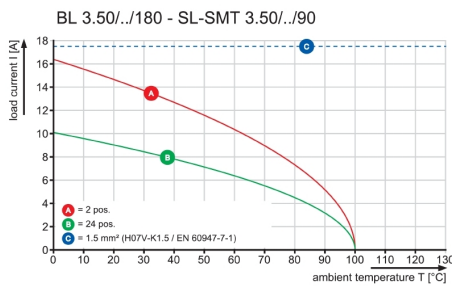
Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

Drawings

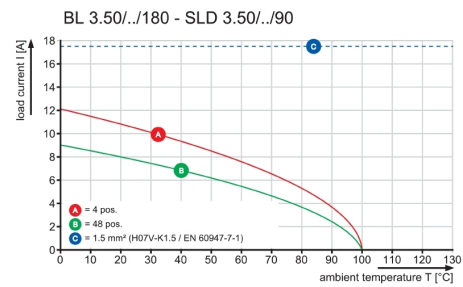
Dimensional drawing



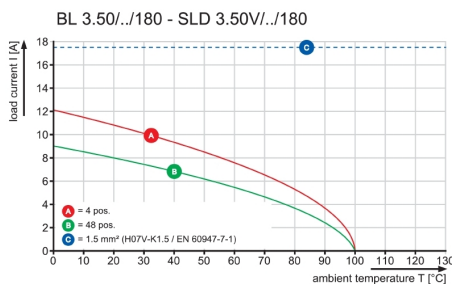
Graph



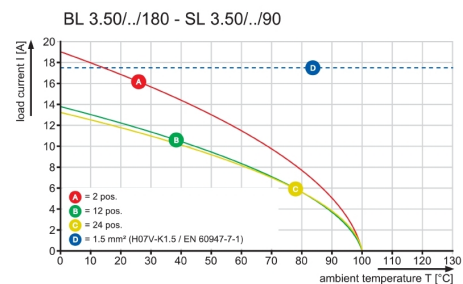
Graph



Graph

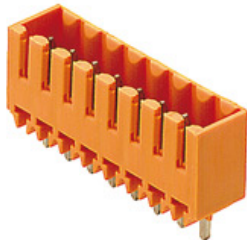


Graph



**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL 3.50/03/180G 3.2SN OR BX	1604480000	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, No. of poles: 3, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190049621	100 pc(s).	IEC: 320 V / 17 A UL: 300 V / 10 A	Box

SL-SMT 3.5/180G 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

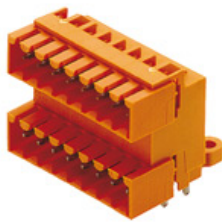
Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT 3.50/03/180G 1.5SN BK RL	1752994002	PCB plug-in connector, male header, closed side, THT/ THR solder connection, 3.50 mm, No. of poles: 3, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Tape (Ø 330 mm); Rs = 10 ⁹ - 10 ¹² Ω	4032248193103	265 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Tape (Ø 330 mm); Rs = 10 ⁹ -

**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

Mating connector (conditionally pluggable)

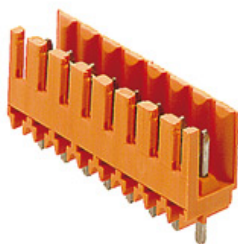
10¹²
Ω

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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SLD	1633590000	PCB plug-in connector, male	4008190258047	50 pc(s).	IEC: 200 V / 10.5 A UL: 300 V / 8 A	Box
3.50/06/90G		header, closed side, THT				
3.2SN OR BX		solder connection, 3.50 mm, No. of poles: 6, 90°, Solder pin length (l): 3.2 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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL	1604780000	PCB plug-in connector, male	4008190014322	100 pc(s).	IEC: 320 V / 17 A UL: 300 V / 10 A	Box
3.50/03/180		header, open side, THT				
3.2SN OR BX		solder connection, 3.50 mm, No. of poles: 3, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box				

**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

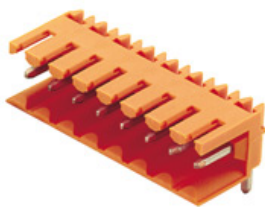
Mating connector (conditionally pluggable)
SL-SMT 3.5/90G Tape


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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT	1761554002	PCB plug-in connector, male	4032248193332	385 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Tape
3.50/03/90G		header, closed side, THT/ THR solder connection,				(Ø
1.5SN BK RL		3.50 mm, No. of poles: 3, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Tape				330 mm); Rs = 10 ⁹ - 10 ¹² Ω

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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL	1597220000	PCB plug-in connector, male	4008190121792	100 pc(s).	IEC: 320 V / 17 A UL: 300 V / 10 A	Box
3.50/03/90		header, open side, THT				
3.2SN OR BX		solder connection, 3.50 mm, No. of poles: 3, 90°,				

**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

Mating connector (conditionally pluggable)

Solder pin length (l): 3.2
mm, tinned, Orange, Box

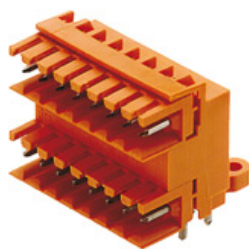
SL-THR 3.5/135F


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

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

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT	1003520000	PCB plug-in connector, male	4032248700158	102 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
3.50/03/135F		header, Flange, THT/THR				
3.2SN BK BX		solder connection, 3.50 mm, No. of poles: 3, 135°, Solder pin length (l): 3.2 mm, tinned, Black, Box				

SLD 3.50/90


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

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SLD	1633360000	PCB plug-in connector, male	4008190257811	150 pc(s).	IEC: 200 V / 10.5 A UL: 300 V / 8 A	Box
3.50/06/90		header, open side, THT				
3.2SN OR BX		solder connection, 3.50 mm, No. of poles: 6, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box				

**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

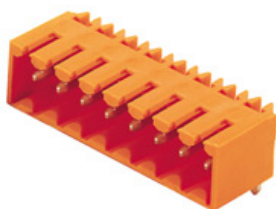
Mating connector (conditionally pluggable)
SL-SMT 3.5/90G Box


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

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

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT 3.50/03/90G 1.5SN BK BX	1761552001	PCB plug-in connector, male header, closed side, THT/ THR solder connection, 3.50 mm, No. of poles: 3, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Box	4032248132041	100 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
SL-SMT 3.50/03/90G 3.2SN BK BX	1841640000	PCB plug-in connector, male header, closed side, THT/ THR solder connection, 3.50 mm, No. of poles: 3, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248352791	100 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL 3.50/03/90G 3.2SN OR BX	1605080000	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, No. of poles: 3, 90°	4008190088538	100 pc(s).	IEC: 320 V / 17 A UL: 300 V / 10 A	Box

**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

Mating connector (conditionally pluggable)

Solder pin length (l): 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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT 3.50/03/180G 3.2SN BK BX	1842330000	PCB plug-in connector, male header, closed side, THT/ THR solder connection, 3.50 mm, No. of poles: 3, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248353675	100 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
SL-SMT 3.50/03/180G 1.5SN BK BX	1752992001	PCB plug-in connector, male header, closed side, THT/ THR solder connection, 3.50 mm, No. of poles: 3, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Box	4032248130917	100 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Box

**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmuller.com

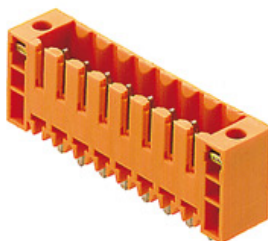
Mating connector (fully pluggable)
SL-SMT 3.5/180F Box


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

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

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT 3.50/03/180F 1.5SN BK BX	1760972001	PCB plug-in connector, male header, Flange, THT/THR solder connection, 3.50 mm, No. of poles: 3, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Box	4032248131549	102 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
SL-SMT 3.50/03/180F 3.2SN BK BX	1842780000	PCB plug-in connector, male header, Flange, THT/THR solder connection, 3.50 mm, No. of poles: 3, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248354146	102 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Box

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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL 3.50/03/180F 3.2SN OR BX	1607510000	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, No. of poles: 3, 180°, Solder pin	4008190163907	100 pc(s).	IEC: 320 V / 17 A UL: 300 V / 10 A	Box

**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

Mating connector (fully pluggable)

length (l): 3.2 mm, tinned,
Orange, 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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT	1842090000	PCB plug-in connector, male	4032248353446	102 pc(s).	IEC: 320 V / 15 A	Box
3.50/03/90F		header, Flange, THT/THR			UL: 300 V / 10 A	
3.2SN BK BX		solder connection, 3.50 mm, No. of poles: 3, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box				

**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

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


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

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

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT 3.50/03/90LF 1.5SN BK BX	1804950000	PCB plug-in connector, male header, Solder flange, THT/ THR solder connection, 3.50 mm, No. of poles: 3, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Box	4032248268856	102 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
SL-SMT 3.50/03/90LF 3.2SN BK BX	1841870000	PCB plug-in connector, male header, Solder flange, THT/ THR solder connection, 3.50 mm, No. of poles: 3, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248353224	102 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Box

**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

Mating connector (fully 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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT 3.50/03/180LF 3.2SN BK BX	1842550000	PCB plug-in connector, male header, Solder flange, THT/ THR solder connection, 3.50 mm, No. of poles: 3, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248353910	102 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
SL-SMT 3.50/03/180LF 1.5SN BK BX	1804710000	PCB plug-in connector, male header, Solder flange, THT/ THR solder connection, 3.50 mm, No. of poles: 3, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Box	4032248268528	102 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Box

**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

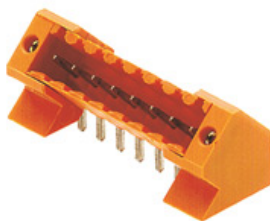
Mating connector (fully pluggable)
SL-SMT 3.5/90LF Tape


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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT	1805320000	PCB plug-in connector, male	4032248269570	385 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Tape
3.50/03/90LF		header, Solder flange, THT/ THR solder connection,				(Ø
1.5SN BK RL		3.50 mm, No. of poles: 3, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Tape				330 mm); Rs = 10 ⁹ - 10 ¹² Ω

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

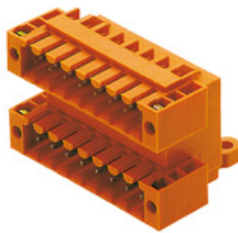
Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL	1643340000	PCB plug-in connector, male	4008190282103	102 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
3.50/03/135F		header, Flange, THT solder connection, 3.50 mm, No. of poles: 3, 135°, Solder pin				
3.2SN OR BX						

**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

Mating connector (fully pluggable)

length (l): 3.2 mm, tinned,
Orange, 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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SLD	1633820000	PCB plug-in connector, male	4008190258276	50 pc(s).	IEC: 200 V / 10.5 A	Box
3.50/06/90F		header, Flange, THT solder connection, 3.50 mm, No. of poles: 6, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box			UL: 300 V / 8 A	
3.2SN OR BX						

SL-SMT 3.5/180LF 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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT	1805230000	PCB plug-in connector, male	4032248269105	265 pc(s).	IEC: 320 V / 15 A	Tape
3.50/03/180LF		header, Solder flange, THT/THR solder connection, 3.50 mm, No. of poles: 3, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Tape			UL: 300 V / 10 A	(Ø 330 mm); Rs = 10 ⁹
1.5SN BK RL						

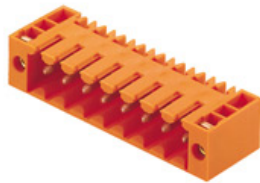
**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

Mating connector (fully pluggable)

(Ø 330 mm); Rs = 10⁹ -
10¹² Ω

-
10¹²
Ω

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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL	1607050000	PCB plug-in connector, male	4008190055257	100 pc(s).	IEC: 320 V / 17 A	Box
3.50/03/90F		header, Flange, THT solder			UL: 300 V / 10 A	
3.2SN OR BX		connection, 3.50 mm, No. of poles: 3, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box				

**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50 ZE03 BK BX	1627820000	PCB plug-in connector, Accessories, Strain relief, Black, No. of poles: 3	4008190202552	50 pc(s).		Box
BL 3.50 ZE03 OR BX	1629680000	PCB plug-in connector, Accessories, Strain relief, Orange, No. of poles: 3	4008190202569	50 pc(s).		Box

**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

Accessories
Cover hoods

Effective protection, optimised ergonomics and closed design:

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

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

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

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

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50 AH03 BK BX	1745580000	PCB plug-in connector, Accessories, Cover hood, Black, No. of poles: 3	4008190985141	10 pc(s).		Box

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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL SL 3.5 KO SW	1610100000	PCB plug-in connector, Accessories, Coding element, Black, No. of poles: 1	4008190187637	100 pc(s).		Box
BL SL 3.5 KO OR	1693430000	PCB plug-in connector, Accessories, Coding	4008190867447	100 pc(s).		Box

Data sheet

**OMNIMATE Signal - series BL/SL 3.50
BL 3.50/03/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

Accessories

element, Orange, No. of
poles: 1

