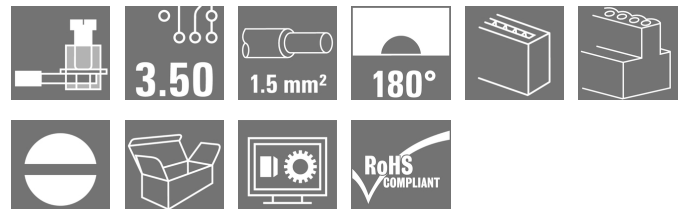
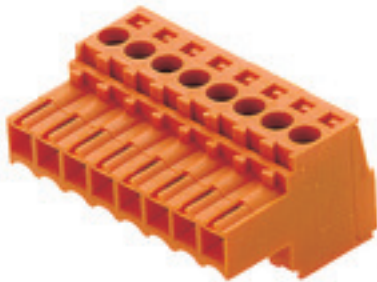


OMNIMATE Signal - series BL/SL 3.50
BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Product image

Similar to illustration

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 3.50/05/180 SN OR BX
Order No.	1597390000
Version	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 5, 180°, Clamping yoke connection, Clamping range, max. : 1.5 mm², Box
GTIN (EAN)	4008190134785
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 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Technical data

Dimensions and weights

Width	17.5 mm	Width (inches)	0.689 inch
Height	13 mm	Height (inches)	0.512 inch
Depth	18.5 mm	Depth (inches)	0.728 inch
Net weight	2.353 g		

System parameters

Product family	OMNIMATE Signal - series BL/SL 3.50	Type of connection	Field connection
Wire connection method	Clamping yoke connection	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	Conductor outlet direction	180°
No. of poles	5	L1 in mm	14 mm
L1 in inches	0.551 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, 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
Plugging force/pole, max.	7 N	Pulling force/pole, max.	5 N

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, min.	0.08 mm ²	Clamping range, 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 in accordance with EN 60999 a x b; ø	2.4 mm x 1.5 mm		

OMNIMATE Signal - series BL/SL 3.50
BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 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 (Tu=20°C)	17 A
Rated current, max. no. of poles (Tu=20°C)	12 A	Rated current, min. no. of poles (Tu=40°C)	14.5 A
Rated current, max. no. of poles (Tu=40°C)	10 A	Rated voltage for surge voltage class / pollution degree II/2	320 V
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated voltage for surge voltage class / pollution degree III/3	160 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV	Short-time withstand current resistance	3 x 1s with 100 A

Rated data acc. to CSA

Institute (CSA)		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.		

Packaging

Packaging	Box	VPE length	50 mm
VPE width	75 mm	VPE height	115 mm

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		

OMNIMATE Signal - series BL/SL 3.50 BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Technical data

Notes

Notes

- 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

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.

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](#)
[FL APPL LED LIGHTING EN](#)
[FL INDUSTR.CONTROLS EN](#)
[FL MACHINE SAFETY EN](#)
[FL HEATING ELECTR EN](#)
[FL APPL INVERTER EN](#)
[FL_BASE_STATION_EN](#)
[FL ELEVATOR EN](#)
[FL POWER SUPPLY EN](#)
[FL 72H SAMPLE SER EN](#)
[PO OMNIMATE EN](#)

Engineering Data

[EPLAN, WSCAD, Zuken E3.S](#)

Engineering Data

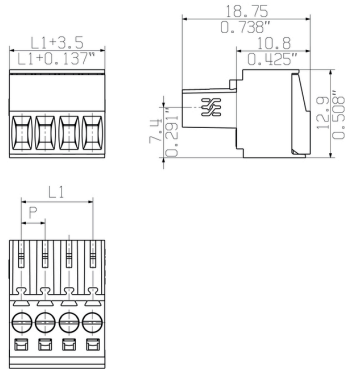
[STEP](#)

OMNIMATE Signal - series BL/SL 3.50 BL 3.50/05/180 SN OR BX

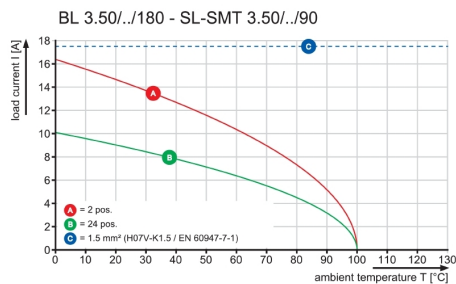
Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Drawings

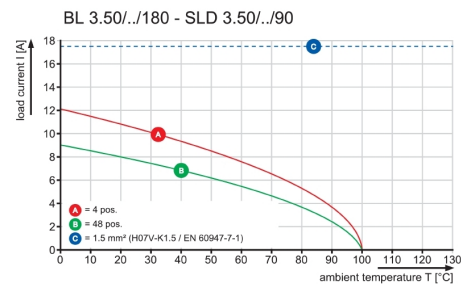
Dimensional drawing



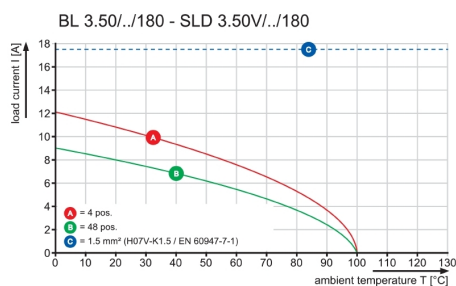
Graph



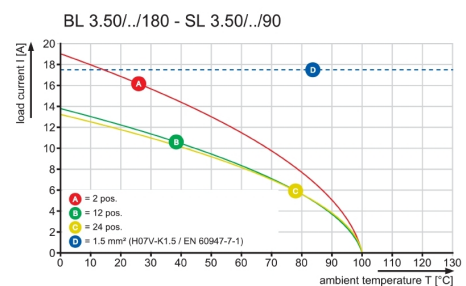
Graph



Graph



Graph

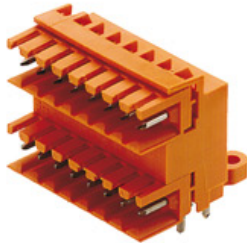


OMNIMATE Signal - series BL/SL 3.50 BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Mating connector (fully pluggable)

SLD 3.50/90

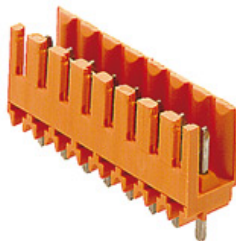


Two-tier pin header for wave soldering in 3.50 mm pitch. The connector is available in open, closed and flange versions. The male connectors provide space for labelling and can be coded. Packed in a cardboard box.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SLD	1633380000	PCB plug-in connector, male	4008190257835	50 pc(s).	IEC: 200 V / 10.5 A	Box
3.50/10/90		header, open side, THT			UL: 300 V / 8 A	
3.2SN OR BX		solder connection, 3.50 mm, No. of poles: 10, 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	1604800000	PCB plug-in connector, male	4008190005092	50 pc(s).	IEC: 320 V / 17 A	Box
3.50/05/180		header, open side, THT			UL: 300 V / 10 A	
3.2SN OR BX		solder connection, 3.50 mm, No. of poles: 5, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box				

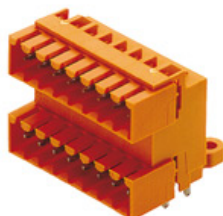
OMNIMATE Signal - series BL/SL 3.50

BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Mating connector (fully pluggable)

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	1633610000	PCB plug-in connector, male	4008190258061	50 pc(s).	IEC: 200 V / 10.5 A	Box
3.50/10/90G		header, closed side, THT			UL: 300 V / 8 A	
3.2SN OR BX		solder connection, 3.50 mm, No. of poles: 10, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box				

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	1761574002	PCB plug-in connector, male	4032248193363	385 pc(s).	IEC: 320 V / 15 A	Tape
3.50/05/90G		header, closed side, 3.50 mm, No. of poles: 5, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Tape			UL: 300 V / 10 A	
1.5SN BK RL						

OMNIMATE Signal - series BL/SL 3.50 BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Mating connector (fully pluggable)

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	1753014002	PCB plug-in connector, male	4032248193226	265 pc(s).	IEC: 320 V / 15 A	Tape
3.50/05/180G		header, closed side, THT/			UL: 300 V / 10 A	
1.5SN BK RL		THR solder connection, 3.50 mm, No. of poles: 5, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Tape				

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	1003540000	PCB plug-in connector,	4032248700172	72 pc(s).	IEC: 320 V / 15 A	Box
3.50/05/135F		male header, Flange, 3.50			UL: 300 V / 10 A	
3.2SN BK BX		mm, No. of poles: 5, 135°				

OMNIMATE Signal - series BL/SL 3.50 BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Mating connector (fully pluggable)

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

SL-SMT 3.5/90G Box



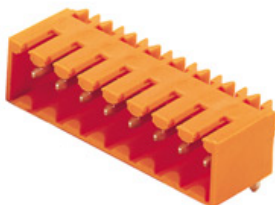
High-temperature-resistant male header, 3.50 mm pitch.

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

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT 3.50/05/90G 1.5SN BK BX	1761572001	PCB plug-in connector, male header, closed side, 3.50 mm, No. of poles: 5, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Box	4032248132065	50 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
SL-SMT 3.50/05/90G 3.2SN BK BX	1841660000	PCB plug-in connector, male header, closed side, 3.50 mm, No. of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248353019	50 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 3.50/05/90G 3.2SN OR BX	1605100000	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, No. of poles: 5, 90°	4008190102609	50 pc(s).	IEC: / 17 A UL: 300 V / 10 A	Box

Creation date November 26, 2018 8:25:20 AM CET

OMNIMATE Signal - series BL/SL 3.50

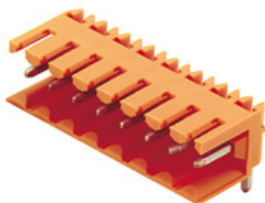
BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Mating connector (fully pluggable)

		Solder pin length (l): 3.2 mm, tinned, Orange, Box		
SL	1763000000	PCB plug-in connector, male	4032248049363 50 pc(s).	IEC: / 17 A
3.50/05/90G		header, closed side, THT		UL: 300 V / 10 A
3.2SN BK BX		solder connection, 3.50 mm, No. of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box		Box

SL 3.50/90



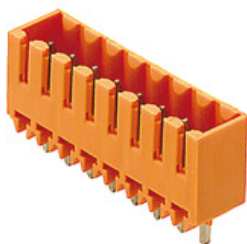
Pin headers for wave soldering in 3.50 mm pitch

- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL	1597240000	PCB plug-in connector, male	4008190055776 50 pc(s).		IEC: 320 V / 17 A	Box
3.50/05/90		header, open side, THT			UL: 300 V / 10 A	
3.2SN OR BX		solder connection, 3.50 mm, No. of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box				

SL 3.50/180G



Pin headers for wave soldering in 3.50 mm pitch

- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

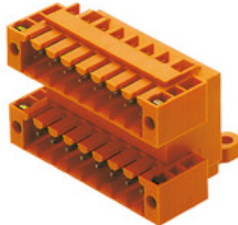
Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL	1604500000	PCB plug-in connector, male	4008190066871 50 pc(s).		IEC: 320 V / 17 A	Box
3.50/05/180G		header, closed side, THT			UL: 300 V / 10 A	
3.2SN OR BX		solder connection, 3.50 mm, No. of poles: 5, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box				

OMNIMATE Signal - series BL/SL 3.50 BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Mating connector (conditionally pluggable)

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	1633840000	PCB plug-in connector, male	4008190258290	50 pc(s).	IEC: 200 V / 10.5 A	Box
3.50/10/90F		header, Flange, THT solder connection, 3.50 mm, No. of poles: 10, 90°, Solder pin length (l): 3.2 mm, tinned,			UL: 300 V / 8 A	
3.2SN OR BX		Orange, Box				

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

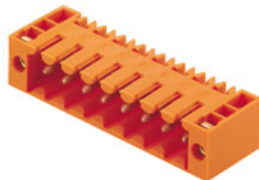
Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT	1805250000	PCB plug-in connector, male	4032248269525	265 pc(s).	IEC: 320 V / 15 A	Tape
3.50/05/180LF		header, Solder flange, THT/THR solder connection, 3.50 mm, No. of poles: 5, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Tape			UL: 300 V / 10 A	
1.5SN BK RL						

OMNIMATE Signal - series BL/SL 3.50 BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Mating connector (conditionally pluggable)

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	1607070000	PCB plug-in connector, male	4008190170127	50 pc(s).	IEC: / 17 A	Box
3.50/05/90F		header, Flange, THT solder			UL: 300 V / 10 A	
3.2SN OR BX		connection, 3.50 mm, No. of poles: 5, 90°, Solder pin 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

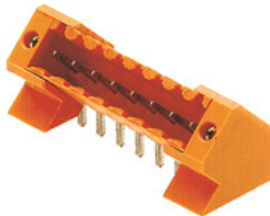
Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT	1842110000	PCB plug-in connector, male header, Flange, 3.50 mm, No. of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248353460	72 pc(s).	IEC: 320 V / 15 A	Box
3.50/05/90F					UL: 300 V / 10 A	
3.2SN BK BX						

OMNIMATE Signal - series BL/SL 3.50 BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Mating connector (conditionally pluggable)

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	1643360000	PCB plug-in connector, male	4008190282127	72 pc(s).	IEC: 320 V / 15 A	Box
3.50/05/135F		header, Flange, THT solder			UL: 300 V / 10 A	
3.2SN OR BX		connection, 3.50 mm, No. of poles: 5, 135°, Solder pin length (l): 3.2 mm, tinned, Orange, Box				

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	1805340000	PCB plug-in connector, male	4032248269594	385 pc(s).	IEC: 320 V / 15 A	Tape
3.50/05/90LF		header, Solder flange, 3.50 mm, No. of poles: 5, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Tape			UL: 300 V / 10 A	
1.5SN BK RL						

OMNIMATE Signal - series BL/SL 3.50 BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Mating connector (conditionally pluggable)

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	1842350000	PCB plug-in connector, male	4032248353705	50 pc(s).	IEC: 320 V / 15 A	Box
3.50/05/180G		header, closed side, THT/			UL: 300 V / 10 A	
3.2SN BK BX		THR solder connection,				
		3.50 mm, No. of poles: 5,				
		180°, Solder pin length (l):				
		3.2 mm, tinned, Black, Box				
SL-SMT	1753012001	PCB plug-in connector, male	4032248130900	50 pc(s).	IEC: 320 V / 15 A	Box
3.50/05/180G		header, closed side, THT/			UL: 300 V / 10 A	
1.5SN BK BX		THR solder connection,				
		3.50 mm, No. of poles: 5,				
		180°, Solder pin length (l):				
		1.5 mm, tinned, Black, Box				

OMNIMATE Signal - series BL/SL 3.50

BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
www.weidmueller.com

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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT	1842800000	PCB plug-in connector, male	4032248354160	72 pc(s).	IEC: 320 V / 15 A	Box
3.50/05/180F		header, Flange, THT/THR			UL: 300 V / 10 A	
3.2SN BK BX		solder connection, 3.50 mm, No. of poles: 5, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box				
SL-SMT	1760992001	PCB plug-in connector, male	4032248131563	72 pc(s).	IEC: 320 V / 15 A	Box
3.50/05/180F		header, Flange, THT/THR			UL: 300 V / 10 A	
1.5SN BK BX		solder connection, 3.50 mm, No. of poles: 5, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Box				

OMNIMATE Signal - series BL/SL 3.50 BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Mating connector (conditionally 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	1841890000	PCB plug-in connector, male	4032248353248	72 pc(s).	IEC: 320 V / 15 A	Box
3.50/05/90LF		header, Solder flange, 3.50 mm, No. of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box			UL: 300 V / 10 A	
3.2SN BK BX						
SL-SMT	1804970000	PCB plug-in connector, male	4032248268870	72 pc(s).	IEC: 320 V / 15 A	Box
3.50/05/90LF		header, Solder flange, 3.50 mm, No. of poles: 5, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Box			UL: 300 V / 10 A	
1.5SN BK BX						

OMNIMATE Signal - series BL/SL 3.50

BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
www.weidmueller.com

Mating connector (conditionally pluggable)

SL-SMT 3.5/180LF Box



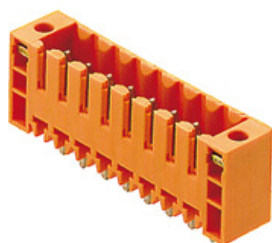
High-temperature-resistant male header, 3.50 mm pitch.

- **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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT	1842570000	PCB plug-in connector, male	4032248353934	72 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
3.50/05/180LF		header, Solder flange, THT/ THR solder connection, 3.50 mm, No. of poles: 5, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box				
3.2SN BK BX						
SL-SMT	1804730000	PCB plug-in connector, male	4032248268818	72 pc(s).	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
3.50/05/180LF		header, Solder flange, THT/ THR solder connection, 3.50 mm, No. of poles: 5, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Box				
1.5SN BK BX						

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	1607530000	PCB plug-in connector, male	4008190067335	50 pc(s).	IEC: 320 V / 17 A UL: 300 V / 10 A	Box
3.50/05/180F		header, Flange, THT solder connection, 3.50 mm, No. of poles: 5, 180°, Solder pin				
3.2SN OR BX						

OMNIMATE Signal - series BL/SL 3.50
BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Mating connector (conditionally pluggable)

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

OMNIMATE Signal - series BL/SL 3.50 BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmuller.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 AH05	1745600000	PCB plug-in connector,	4008190985165	10 pc(s).	UL:	Box
BK BX		Accessories, Cover hood, Black, No. of poles: 5				

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	1629680000	PCB plug-in connector,	4008190202569	50 pc(s).	UL:	Box
OR BX		Accessories, Strain relief, Orange, No. of poles: 3				

OMNIMATE Signal - series BL/SL 3.50 BL 3.50/05/180 SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Accessories

BL 3.50 ZE03 1627820000 BK BX	PCB plug-in connector, Accessories, Strain relief, Black, No. of poles: 3	4008190202552 50 pc(s).	UL:	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 OR	1693430000	PCB plug-in connector, Accessories, Coding element, Orange, No. of poles: 1	4008190867447	100 pc(s).	UL:	Box
BL SL 3.5 KO SW	1610100000	PCB plug-in connector, Accessories, Coding element, Black, No. of poles: 1	4008190187637	100 pc(s).	UL:	Box