OMNIMATE Signal - series BL/SL 3.50
BL 3.50/06/90 SN OR BX

Weidmüller Interface GmbH & Co. KG
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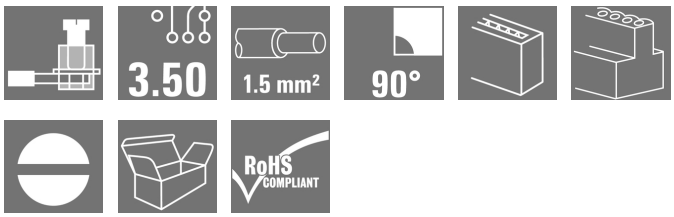
Product image



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 3.50/06/90 SN OR BX
Order No.	1638590000
Version	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 6, 90°, Clamping yoke connection, Clamping range, max. : 1.5 mm², Box
GTIN (EAN)	4008190276133
Qty.	84 pc(s).
Product data	IEC: 320 V / 12 A / 0.2 - 1.5 mm² UL: 300 V / 8 A / AWG 28 - AWG 14
Packaging	Box

Creation date May 3, 2020 6:02:33 PM CEST

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Technical data

Dimensions and weights

Width	21 mm	Width (inches)	0.827 inch
Height	12 mm	Height (inches)	0.472 inch
Depth	22.45 mm	Depth (inches)	0.884 inch
Net weight	3.702 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	90°
Number of poles	6	L1 in mm	17.5 mm
L1 in inches	0.689 inch	Number of rows	1
Pin series quantity	1	Rated cross-section	1.5 mm²
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Volume resistance	≤ 5mΩ	Can be coded	Yes
Stripping length	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
Comparative Tracking Index (CTI)	≥ 200	Insulation strength	≥ 10^8 Ω
UL 94 flammability rating	V-0	GWFI	960 °C
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.	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

Conductors suitable for connection

Clamping range, min.	0.08 mm²
Clamping range, max.	1.5 mm²
Wire connection cross section AWG, min.	AWG 28
Wire connection cross section AWG, max.	AWG 14
Solid, min. H05(07) V-U	0.2 mm²
Solid, max. H05(07) V-U	1.5 mm²
Flexible, min. H05(07) V-K	0.2 mm²
Flexible, max. H05(07) V-K	1.5 mm²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm²
w. plastic collar ferrule, DIN 46228 pt 4, max.	1.5 mm²
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm²
w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm²

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Plug gauge in accordance with EN 60999 a x b; ø	2.4 mm x 1.5 mm		
Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	0.5 mm²
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire-end ferrule	H0,5/12 OR
		Stripping length	nominal 6 mm
		Recommended wire-end ferrule	H0,5/6
	Cross-section for conductor connection	Type	fine-wired
		nominal	0.75 mm²
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire-end ferrule	H0,75/12 W
		Stripping length	nominal 6 mm
		Recommended wire-end ferrule	H0,75/6
	Cross-section for conductor connection	Type	fine-wired
		nominal	1 mm²
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire-end ferrule	H1,0/12 GE
		Stripping length	nominal 6 mm
		Recommended wire-end ferrule	H1,0/6
	Cross-section for conductor connection	Type	fine-wired
		nominal	0.25 mm²
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire-end ferrule	H0,25/10 HBL
		Stripping length	nominal 5 mm
		Recommended wire-end ferrule	H0,25/5
	Cross-section for conductor connection	Type	fine-wired
		nominal	0.34 mm²
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire-end ferrule	H0,34/10 TK
Reference text	The outside diameter of the plastic collar should not be larger than the pitch (P), Length of ferrules is to be chosen depending on the product and the rated voltage.		
Max. clamping range	1.5 mm²		

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	12 A
Rated current, max. number of poles (Tu=20°C)	10 A	Rated current, min. number of poles (Tu=40°C)	10 A
Rated current, max. number of poles (Tu=40°C)	8 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

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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)	10 A	Rated current (Use group D / CSA)	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 / 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
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.		

Packing

Packaging	Box	VPE length	70 mm
VPE width	84 mm	VPE height	104 mm

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
eClass 9.0	27-44-03-09	eClass 9.1	27-44-03-09
eClass 10.0	27-44-03-09	UNSPSC	30-21-18-10

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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	STEP

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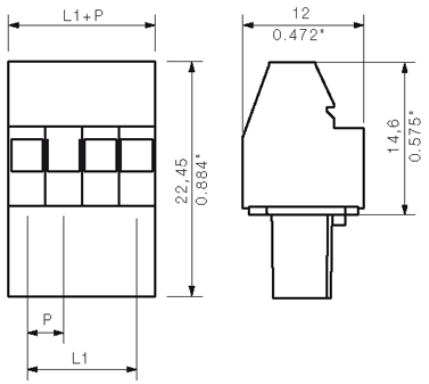
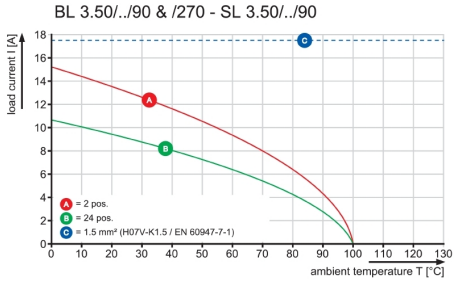
Drawings

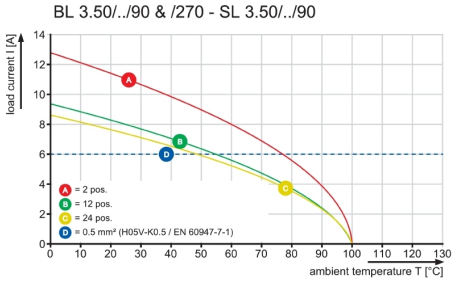
Dimensional drawing



Graph



Graph



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Mating connector (conditionally pluggable)

SL-SMT 3.50/90F Tape

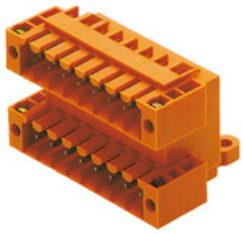
High-temperature-resistant male header, 3.50 mm pitch.

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

General ordering data

Type	SL-SMT 3.50/06/90F 1.5S ...	Version	Product data	Packaging
Order No.	1762044001	PCB plug-in connector, male header, Flange, THT/THR solder	IEC: 320 V / 15 A	Tape
GTIN (EAN)	4032248136223	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	385 pc(s).	1.5 mm, tinned, black, Tape		

SLD 3.50/90F



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

General ordering data

Type	SLD 3.50/12/90F 3.2SN O ...	Version	Product data	Packaging
Order No.	1633850000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 200 V / 10.5 A	Box
GTIN (EAN)	4008190258306	3.50 mm, Number of poles: 12, 90°, Solder pin length (l): 3.2 mm,	UL: 300 V / 8 A	
Qty.	50 pc(s).	tinned, orange, Box		

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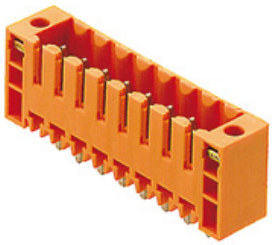
Mating connector (conditionally pluggable)

SL 3.50/180F



Pin headers for wave soldering in 3.50 mm pitch

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

General ordering data

Type	SL 3.50/06/180F 3.2SN G ...	Version	Product data	Packaging
Order No.	1622300000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190190002	3.50 mm, Number of poles: 6, 180°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, Pebble grey, Box		
Type	SL 3.50/06/180F 3.2SN O ...	Version	Product data	Packaging
Order No.	1607540000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190177140	3.50 mm, Number of poles: 6, 180°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, orange, Box		
Type	SL 3.50/06/180F 4.5 SN ...	Version	Product data	Packaging
Order No.	1618730000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190127312	3.50 mm, Number of poles: 6, 180°, Solder pin length (l): 4.5 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, orange, Box		
Type	SL 3.50/06/180F 3.2SN D ...	Version	Product data	Packaging
Order No.	1622520000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190193188	3.50 mm, Number of poles: 6, 180°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, Signal green, Box		
Type	SL 3.50/06/180F 4.5 SN ...	Version	Product data	Packaging
Order No.	1616180000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190068394	3.50 mm, Number of poles: 6, 180°, Solder pin length (l): 4.5 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, black, Box		

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Mating connector (conditionally pluggable)

SL-SMT 3.5/90F Box

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

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

General ordering data

Type	SL-SMT 3.50/06/90F 3.2S ...	Version	Product data	Packaging
Order No.	1842120000	PCB plug-in connector, male header, Flange, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248353477	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	66 pc(s).	3.2 mm, tinned, black, 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	SL-SMT 3.50/06/90LF 1.5 ...	Version	Product data	Packaging
Order No.	1805350000	PCB plug-in connector, male header, Solder flange, THT/THR solder	IEC: 320 V / 15 A	Tape
GTIN (EAN)	4032248269600	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	385 pc(s).	1.5 mm, tinned, black, Tape		

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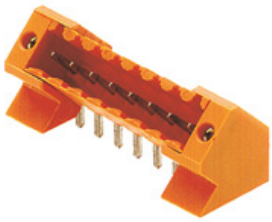
Mating connector (conditionally pluggable)

SL 3.50/135F



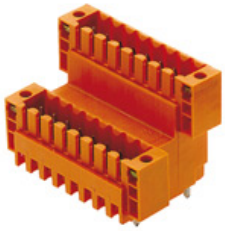
Pin headers for wave soldering in 3.50 mm pitch

- 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	SL 3.50/06/135F 3.2SN O ...	Version	Product data	Packaging
Order No.	1643370000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 15 A	Box
GTIN (EAN)	4008190282134	3.50 mm, Number of poles: 6, 135°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	66 pc(s).	tinned, orange, Box		

SLD 3.50V/180F



Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

General ordering data

Type	SLD 3.50 V/12/180F 3.2 ...	Version	Product data	Packaging
Order No.	1641260000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 200 V / 10.5 A	Box
GTIN (EAN)	4008190279660	3.50 mm, Number of poles: 12, 180°, Solder pin length (l): 3.2 mm,	UL: 300 V / 8 A	
Qty.	50 pc(s).	tinned, orange, Box		

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Mating connector (conditionally pluggable)

SL-SMT 3.5/90LF Box

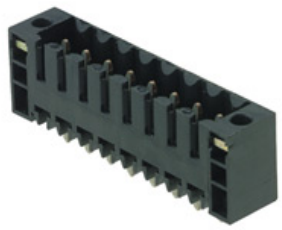
High-temperature-resistant male header, 3.50 mm pitch.

- **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	SL-SMT 3.50/06/90LF 3.2 ...	Version	Product data	Packaging
Order No.	1841900000	PCB plug-in connector, male header, Solder flange, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248353255	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	66 pc(s).	3.2 mm, tinned, black, Box		
Type	SL-SMT 3.50/06/90LF 1.5 ...	Version	Product data	Packaging
Order No.	1804980000	PCB plug-in connector, male header, Solder flange, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248268887	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	66 pc(s).	1.5 mm, tinned, black, Box		

SL-SMT 3.5/180F Box



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

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

General ordering data

Type	SL-SMT 3.50/06/180F 1.5 ...	Version	Product data	Packaging
Order No.	1761002001	PCB plug-in connector, male header, Flange, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248131570	connection, 3.50 mm, Number of poles: 6, 180°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	66 pc(s).	1.5 mm, tinned, black, Box		

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Mating connector (conditionally pluggable)

Type	SL-SMT 3.50/06/180F 3.2 ...	Version	Product data	Packaging
Order No.	1842810000	PCB plug-in connector, male header, Flange, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248354177	connection, 3.50 mm, Number of poles: 6, 180°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	66 pc(s).	3.2 mm, tinned, black, Box		

SLD 3.50V/90F

Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

General ordering data

Type	SLD 3.50 V/12/90F 3.2 S ...	Version	Product data	Packaging
Order No.	1642390000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 200 V / 10.5 A	Box
GTIN (EAN)	4008190280918	3.50 mm, Number of poles: 12, 90°, Solder pin length (l): 3.2 mm,	UL: 300 V / 8 A	
Qty.	50 pc(s).	tinned, 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	SL-SMT 3.50/06/180LF 1. ...	Version	Product data	Packaging
Order No.	1805270000	PCB plug-in connector, male header, Solder flange, THT/THR solder	IEC: 320 V / 15 A	Tape
GTIN (EAN)	4032248269532	connection, 3.50 mm, Number of poles: 6, 180°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	265 pc(s).	1.5 mm, tinned, black, Tape		

OMNIMATE Signal - series BL/SL 3.50
BL 3.50/06/90 SN OR BX

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Mating connector (conditionally pluggable)

SL-SMT 3.5/180G Box

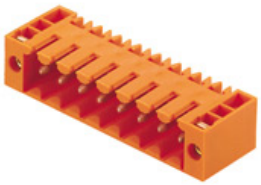
High-temperature-resistant male header, 3.50 mm pitch.

- **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	SL-SMT 3.50/06/180G 1.5 ...	Version	Product data	Packaging
Order No.	1753022001	PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.50 mm, Number of poles: 6, 180°, Solder pin length (l): 1.5 mm, tinned, black, Box	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
GTIN (EAN)	4032248130924			
Qty.	50 pc(s).			
Type	SL-SMT 3.50/06/180G 3.2 ...	Version	Product data	Packaging
Order No.	1842360000	PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.50 mm, Number of poles: 6, 180°, Solder pin length (l): 3.2 mm, tinned, black, Box	IEC: 320 V / 15 A UL: 300 V / 10 A	Box
GTIN (EAN)	4032248353712			
Qty.	50 pc(s).			

SL 3.50/90F



Pin headers for wave soldering in 3.50 mm pitch

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

General ordering data

Type	SL 3.50/06/90F 3.2SN GY ...	Version	Product data	Packaging
Order No.	1619890000	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l): 3.2 mm, tinned, Pebble grey, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190149093			
Qty.	50 pc(s).			
Type	SL 3.50/06/90F 4.5 SN O ...	Version	Product data	Packaging
Order No.	1618100000	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l): 4.5 mm, tinned, orange, Box	IEC: / 17 A UL: 300 V / 10 A	Box
GTIN (EAN)	4008190116248			
Qty.	50 pc(s).			

OMNIMATE Signal - series BL/SL 3.50
BL 3.50/06/90 SN OR BX

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Mating connector (conditionally pluggable)

Type	SL 3.50/06/90F 3.2SN OR ...	Version	Product data	Packaging
Order No.	1607080000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: / 17 A	Box
GTIN (EAN)	4008190101312	3.50 mm, Number of poles: 6, 90°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, orange, Box		
Type	SL 3.50/06/90F 4.5 SN B ...	Version	Product data	Packaging
Order No.	1615570000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: / 17 A	Box
GTIN (EAN)	4008190057411	3.50 mm, Number of poles: 6, 90°, Solder pin length (l): 4.5 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, black, Box		
Type	SL 3.50/06/90F 3.2SN DK ...	Version	Product data	Packaging
Order No.	1620100000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: / 17 A	Box
GTIN (EAN)	4008190151638	3.50 mm, Number of poles: 6, 90°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, Signal green, Box		
Type	SL 3.50/06/90F 3.2SN BK ...	Version	Product data	Packaging
Order No.	1704240000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: / 17 A	Box
GTIN (EAN)	4008190912086	3.50 mm, Number of poles: 6, 90°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, black, Box		

SL-SMT 3.5/180LF Box

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

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

General ordering data

Type	SL-SMT 3.50/06/180LF 1. ...	Version	Product data	Packaging
Order No.	1804740000	PCB plug-in connector, male header, Solder flange, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248268825	connection, 3.50 mm, Number of poles: 6, 180°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	66 pc(s).	1.5 mm, tinned, black, Box		
Type	SL-SMT 3.50/06/180LF 3. ...	Version	Product data	Packaging
Order No.	1842580000	PCB plug-in connector, male header, Solder flange, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248353941	connection, 3.50 mm, Number of poles: 6, 180°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	66 pc(s).	3.2 mm, tinned, black, Box		

OMNIMATE Signal - series BL/SL 3.50
BL 3.50/06/90 SN OR BX

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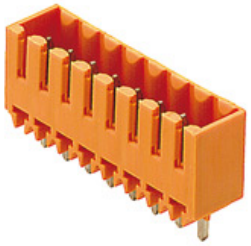
Mating connector (fully pluggable)

SL 3.50/180G



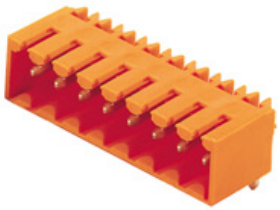
Pin headers for wave soldering in 3.50 mm pitch

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

General ordering data

Type	SL 3.50/06/180G 3.2SN O ...	Version	Product data	Packaging
Order No.	1604510000	PCB plug-in connector, male header, closed side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190159559	connection, 3.50 mm, Number of poles: 6, 180°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, orange, Box		
Type	SL 3.50/06/180G 4.5SN O ...	Version	Product data	Packaging
Order No.	1604660000	PCB plug-in connector, male header, closed side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190026950	connection, 3.50 mm, Number of poles: 6, 180°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	4.5 mm, tinned, orange, Box		
Type	SL 3.50/06/180G 4.5SN B ...	Version	Product data	Packaging
Order No.	1616050000	PCB plug-in connector, male header, closed side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190065836	connection, 3.50 mm, Number of poles: 6, 180°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	4.5 mm, tinned, black, Box		

SL 3.50/90G



Pin headers for wave soldering in 3.50 mm pitch

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

General ordering data

Type	SL 3.50/06/90G 3.2SN GY ...	Version	Product data	Packaging
Order No.	1619500000	PCB plug-in connector, male header, closed side, THT solder	IEC: / 17 A	Box
GTIN (EAN)	4008190141097	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, Pebble grey, Box		
Type	SL 3.50/06/90G 3.2SN OR ...	Version	Product data	Packaging
Order No.	1605110000	PCB plug-in connector, male header, closed side, THT solder	IEC: / 17 A	Box
GTIN (EAN)	4008190059552	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, orange, Box		
Type	SL 3.50/06/90G 3.2SN DK ...	Version	Product data	Packaging
Order No.	1598990000	PCB plug-in connector, male header, closed side, THT solder	IEC: / 17 A	Box
GTIN (EAN)	4008190093983	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, Signal green, Box		

OMNIMATE Signal - series BL/SL 3.50
BL 3.50/06/90 SN OR BX

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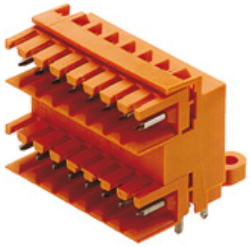
Mating connector (fully pluggable)

Type	SL 3.50/06/90G 4.5SN OR ...	Version	Product data	Packaging
Order No.	1605260000	PCB plug-in connector, male header, closed side, THT solder	IEC: / 17 A	Box
GTIN (EAN)	4008190117306	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	4.5 mm, tinned, orange, Box		
Type	SL 3.50/06/90G 4.5SN BK ...	Version	Product data	Packaging
Order No.	1615440000	PCB plug-in connector, male header, closed side, THT solder	IEC: / 17 A	Box
GTIN (EAN)	4008190054670	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	4.5 mm, tinned, black, Box		
Type	SL 3.50/06/90G 3.2SN BK ...	Version	Product data	Packaging
Order No.	1732030000	PCB plug-in connector, male header, closed side, THT solder	IEC: / 17 A	Box
GTIN (EAN)	4008190390624	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	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	SLD 3.50/12/90 3.2SN OR ...	Version	Product data	Packaging
Order No.	1633390000	PCB plug-in connector, male header, open side, THT solder	IEC: 200 V / 10.5 A	Box
GTIN (EAN)	4008190257842	connection, 3.50 mm, Number of poles: 12, 90°, Solder pin length (l):	UL: 300 V / 8 A	
Qty.	50 pc(s).	3.2 mm, tinned, orange, Box		

OMNIMATE Signal - series BL/SL 3.50
BL 3.50/06/90 SN OR BX

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Mating connector (fully pluggable)

SL-SMT 3.5/90G Tray

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

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

General ordering data

Type	SL-SMT 3.50/06/90G 1.5S ...	Version	Product data	Packaging
Order No.	1761583001	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 15 A	Tray
GTIN (EAN)	4032248133857	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	66 pc(s).	1.5 mm, tinned, black, Tray		

SL-SMT 3.5/90G Tape

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

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

General ordering data

Type	SL-SMT 3.50/06/90G 1.5S ...	Version	Product data	Packaging
Order No.	1761584001	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 15 A	Tape
GTIN (EAN)	4032248136025	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	385 pc(s).	1.5 mm, tinned, black, Tape		

OMNIMATE Signal - series BL/SL 3.50
BL 3.50/06/90 SN OR BX

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Mating connector (fully pluggable)

SL-THR 3.5/135F

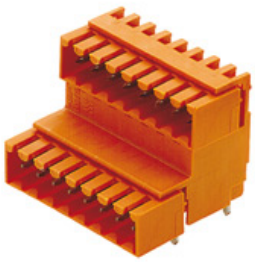
High-temperature-resistant male header, 3.50 mm pitch.

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

General ordering data

Type	SL-SMT 3.50/06/135F 3.2 ...	Version	Product data	Packaging
Order No.	1003550000	PCB plug-in connector, male header, Flange, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248726721	connection, 3.50 mm, Number of poles: 6, 135°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	66 pc(s).	3.2 mm, tinned, black, Box		

SLD 3.50V/90G



Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

General ordering data

Type	SLD 3.50V/12/90G 3.2SN ...	Version	Product data	Packaging
Order No.	1642260000	PCB plug-in connector, male header, closed side, THT solder	IEC: 200 V / 10.5 A	Box
GTIN (EAN)	4008190280789	connection, 3.50 mm, Number of poles: 12, 90°, Solder pin length (l):	UL: 300 V / 8 A	
Qty.	50 pc(s).	3.2 mm, tinned, orange, Box		

OMNIMATE Signal - series BL/SL 3.50
BL 3.50/06/90 SN OR BX

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Mating connector (fully pluggable)

SL-SMT 3.5/180G Tape

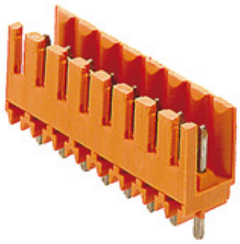
High-temperature-resistant male header, 3.50 mm pitch.

- **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	SL-SMT 3.50/06/180G 1.5 ...	Version	Product data	Packaging
Order No.	1753024001	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 15 A	Tape
GTIN (EAN)	4032248135622	connection, 3.50 mm, Number of poles: 6, 180°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	265 pc(s).	1.5 mm, tinned, black, Tape		

SL 3.50/180



Pin headers for wave soldering in 3.50 mm pitch

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

General ordering data

Type	SL 3.50/06/180 3.2SN OR ...	Version	Product data	Packaging
Order No.	1604810000	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190145460	connection, 3.50 mm, Number of poles: 6, 180°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, orange, Box		

OMNIMATE Signal - series BL/SL 3.50
BL 3.50/06/90 SN OR BX

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Mating connector (fully pluggable)

SL-SMT 3.5/180G Tray

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

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

General ordering data

Type	SL-SMT 3.50/06/180G 1.5 ...	Version	Product data	Packaging
Order No.	1753023001	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 15 A	Tray
GTIN (EAN)	4032248132751	connection, 3.50 mm, Number of poles: 6, 180°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	66 pc(s).	1.5 mm, tinned, black, Tray		

SL-SMT 3.5/90G Box

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

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

General ordering data

Type	SL-SMT 3.50/06/90G 3.2S ...	Version	Product data	Packaging
Order No.	1841670000	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248353026	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, black, Box		

OMNIMATE Signal - series BL/SL 3.50
BL 3.50/06/90 SN OR BX

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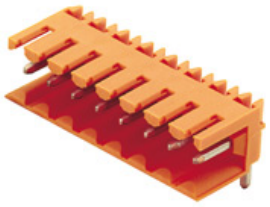
Mating connector (fully pluggable)

Type	SL-SMT 3.50/06/90G 1.5S ...	Version	Product data	Packaging
Order No.	1761582001	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 15 A	Box
GTIN (EAN)	4032248132072	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	1.5 mm, tinned, black, 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

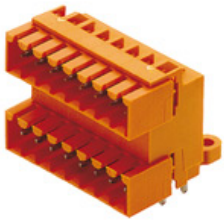
Type	SL 3.50/06/90 3.2SN OR ...	Version	Product data	Packaging
Order No.	1597250000	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190163624	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, orange, Box		
Type	SL 3.50/06/90 4.5SN BK ...	Version	Product data	Packaging
Order No.	1615330000	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190052911	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	4.5 mm, tinned, black, Box		
Type	SL 3.50/06/90 4.5SN OR ...	Version	Product data	Packaging
Order No.	1605410000	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190013806	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	4.5 mm, tinned, orange, Box		
Type	SL 3.50/06/90 3.2SN GY ...	Version	Product data	Packaging
Order No.	1619110000	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190134266	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, Pebble grey, Box		
Type	SL 3.50/06/90 3.2SN DKG ...	Version	Product data	Packaging
Order No.	1599010000	PCB plug-in connector, male header, open side, THT solder	IEC: 320 V / 17 A	Box
GTIN (EAN)	4008190063429	connection, 3.50 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, Signal green, Box		

OMNIMATE Signal - series BL/SL 3.50
BL 3.50/06/90 SN OR BX

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

Mating connector (fully pluggable)

SLD 3.50/90G

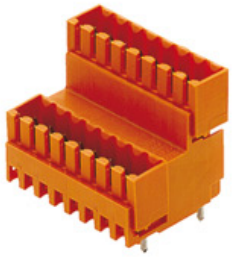


Two-tier pin header for wave soldering in 3.50 mm pitch. The connector is available in open, closed and flange versions. The male connectors provide space for labelling and can be coded. Packed in a cardboard box.

General ordering data

Type	SLD 3.50/12/90G 3.2SN O ...	Version	Product data	Packaging
Order No.	1633620000	PCB plug-in connector, male header, closed side, THT solder	IEC: 200 V / 10.5 A	Box
GTIN (EAN)	4008190258078	connection, 3.50 mm, Number of poles: 12, 90°, Solder pin length (l):	UL: 300 V / 8 A	
Qty.	50 pc(s).	3.2 mm, tinned, orange, Box		
Type	SLD 3.50/12/90G 3.2SN D ...	Version	Product data	Packaging
Order No.	1674910000	PCB plug-in connector, male header, closed side, THT solder	IEC: 200 V / 10.5 A	Box
GTIN (EAN)	4008190445607	connection, 3.50 mm, Number of poles: 12, 90°, Solder pin length (l):	UL: 300 V / 8 A	
Qty.	50 pc(s).	3.2 mm, tinned, Signal green, Box		
Type	SLD 3.50/12/90G 4.5SN B ...	Version	Product data	Packaging
Order No.	1634310000	PCB plug-in connector, male header, closed side, THT solder	IEC: 200 V / 10.5 A	Box
GTIN (EAN)	4008190258764	connection, 3.50 mm, Number of poles: 12, 90°, Solder pin length (l):	UL: 300 V / 8 A	
Qty.	50 pc(s).	4.5 mm, tinned, black, Box		

SLD 3.50V/180G



Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

General ordering data

Type	SLD 3.50V/12/180G 3.2SN ...	Version	Product data	Packaging
Order No.	1641130000	PCB plug-in connector, male header, closed side, THT solder	IEC: 200 V / 10.5 A	Box
GTIN (EAN)	4008190279530	connection, 3.50 mm, Number of poles: 12, 180°, Solder pin length	UL: 300 V / 8 A	
Qty.	50 pc(s).	(l): 3.2 mm, tinned, orange, Box		

OMNIMATE Signal - series BL/SL 3.50
BL 3.50/06/90 SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
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Germany
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Fax: +49 5231 14-292083
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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.	1610100000	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.	1693430000	PCB plug-in connector, Accessories, Coding element, orange, Number		Box
GTIN (EAN)	4008190867447	of poles: 1		
Qty.	100 pc(s).			

WEITERGABE SOWIE VERVIELFAELTIGUNG DIESES DOKUMENTS, VERWERTUNG UND MITTEILUNG SEINES INHALTS SIND VERBOTEN, SOWEIT NICHT AUSDRUECKLICH GESTATTET.
ZUWIDERHANDLUNGEN VERPFLICHTEN ZU SCHADENERSATZ. ALLE RECHTE FUER DEN FALL DER PATENT-, GEBRAUCHSMUSTER- ODER GESCHMACKSMUSTEREINTRAGUNG VORBEHALTEN.
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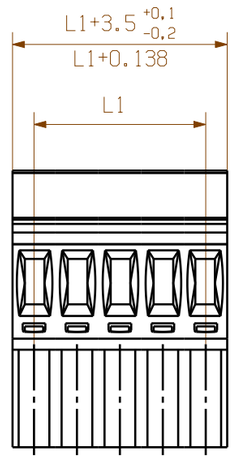
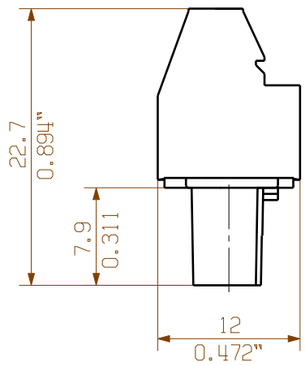
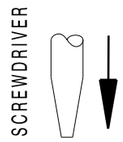
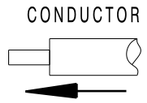
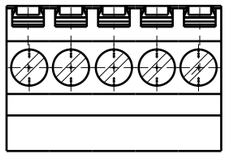
DIE DEUTSCHE VERSION IST VERBINDLICH
THE GERMAN VERSION IS BINDING











n	L1[mm]	L1 [Inch]
24	80,50	3,169
23	77,00	3,031
22	73,50	2,894
21	70,00	2,756
20	66,50	2,618
19	63,00	2,480
18	59,50	2,343
17	56,00	2,205
16	52,50	2,067
15	49,00	1,929
14	45,50	1,791
13	42,00	1,654
12	38,50	1,516
11	35,00	1,378
10	31,50	1,240
9	28,00	1,102
8	24,50	0,965
7	21,00	0,827
6	17,50	0,689
5	14,00	0,551
4	10,50	0,413
3	7,00	0,276
2	3,50	0,138

SHOWN : BL 3.50/05/90

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The neccessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the components are used to the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

RoHS COMPLIANT

METRIC TOLERANCES:
X. = ±0.3
X.X = ±0.1
X.XX = ±0.05

60340/0
15.09.11 HELIS_MA 01
MODIFICATION

CAT.NO.: .

Weidmüller

C 21346 (15)
DRAWING NO. ISSUE NO.
SHEET 01 OF 03 SHEETS

	DATE	NAME
DRAWN	24.07.2003	KOWOLLIK_R
RESPONSIBLE		LANG_T
CHECKED	15.09.2011	RIEPENHAUSEN_H
APPROVED		HECKERT_M

SCALE: 5/1
SUPERSEDES: .

BL 3.50/../90...
BUCHSENSTECKER
FEMALE PLUG

PRODUCT FILE: BL 3.50 7369