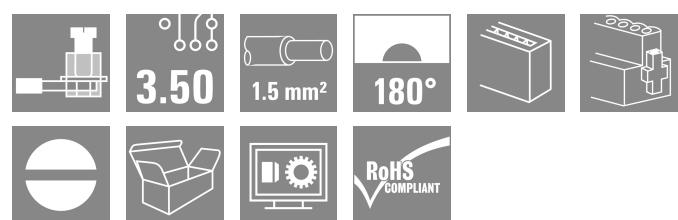
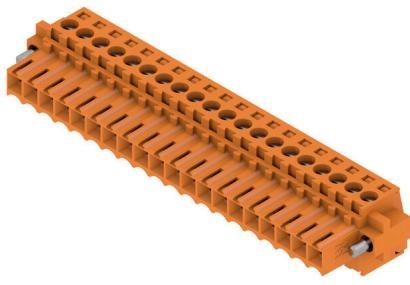


BL 3.50/20/180F SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergsstraße 26
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Germany

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Product image

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

Version	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 20, 180°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² , Box
Order No.	1620790000
Type	BL 3.50/20/180F SN OR BX
GTIN (EAN)	4008190163730
Qty.	24 items
Product data	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14
Packaging	Box

BL 3.50/20/180F SN OR BX

Weidmüller Interface GmbH & Co. KG
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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693

Dimensions and weights

Depth	18.5 mm	Depth (inches)	0.7283 inch
Height	13 mm	Height (inches)	0.5118 inch
Width	77 mm	Width (inches)	3.0315 inch
Net weight	16.25 g		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%
Product Carbon Footprint	Cradle to gate 0,672 kg CO2 eq.

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)	3.50 mm		
Pitch in inches (P)	0.138 "		
Conductor outlet direction	180°		
Number of poles	20		
L1 in mm	66.50 mm		
L1 in inches	2.618 "		
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	IP20 plugged/ IP10 unplugged		
Protection degree	IP20, when fully mounted		
Volume resistance	≤5 mΩ		
Can be coded	Yes		
Stripping length	6 mm		
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		
Tightening torque	Torque type	Wire connection	
	Usage information	Tightening torque	min. 0.2 Nm max. 0.25 Nm
	Torque type	Screw flange	
	Usage information	Tightening torque	min. 0.15 Nm max. 0.2 Nm

BL 3.50/20/180F SN OR BX

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Technical data

Material data

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Layer structure of plug contact	4...8 µm Sn hot-dip tinned
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
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, 0.2 mm ² min.	
w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm ² max.	
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

Clampable conductor	Cross-section for conductor connection	Type	fine-wired
	nominal	0.5 mm ²	
	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 mm ²	
	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 mm ²	
	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 mm ²	
	wire end ferrule	Stripping length	nominal 8 mm

BL 3.50/20/180F SN OR BX

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Technical data

	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
wire end ferrule	nominal	0.34 mm ²
	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.

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	17 A
Rated current, max. number of poles (Tu=20°C)	12 A	Rated current, min. number of poles (Tu=40°C)	14.5 A
Rated current, max. number 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)	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)	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)	10 A	Rated current (Use group D / UL 1059)	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.		

Packing

Packaging	Box	VPE length	352.00 mm
VPE width	137.00 mm	VPE height	25.00 mm

Type tests

Test: Durability of markings	Standard	DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96
	Test	mark of origin, type identification, approval marking SEV, approval marking CSA
	Evaluation	available

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Technical data

	Test	durability
	Evaluation	passed
Test: Misengagement (Non-interchangeability)	Standard	DIN EN 61984 section 6.3 and 6.9.1 / 09.02, DIN IEC 60512 part 7 section 5 / 05.94
	Test	180° turned with coding elements
	Evaluation	passed
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.99
	Conductor type	<p>Type of conductor solid 0.2 mm² and conductor cross-section</p> <p>Type of conductor stranded 0.2 mm² and conductor cross-section</p> <p>Type of conductor solid 1.5 mm² and conductor cross-section</p> <p>Type of conductor stranded 1.5 mm² and conductor cross-section</p> <p>Type of conductor AWG 28/1 and conductor cross-section</p> <p>Type of conductor AWG 28/19 and conductor cross-section</p> <p>Type of conductor AWG 16/1 and conductor cross-section</p> <p>Type of conductor AWG 16/19 and conductor cross-section</p>
	Evaluation	passed
Test for damage to and accidental loosening of conductors	Standard	DIN EN 60999-1 section 9.4 / 12.00
	Requirement	0.2 kg
	Conductor type	<p>Type of conductor AWG 28/1 and conductor cross-section</p> <p>Type of conductor AWG 28/19 and conductor cross-section</p>
	Evaluation	passed
	Requirement	0.3 kg
	Conductor type	<p>Type of conductor 2 × AWG 24/1 and conductor cross-section</p> <p>Type of conductor 2 × AWG 24/19 with and conductor cross-section wire end ferrule</p>
	Evaluation	passed
	Requirement	0.4 kg
	Conductor type	<p>Type of conductor solid 1.5 mm² and conductor cross-section</p> <p>Type of conductor stranded 1.5 mm² and conductor cross-section</p> <p>Type of conductor AWG 16/7 and conductor cross-section</p>
	Evaluation	passed
Pull-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00
	Requirement	≥ 5 N

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Technical data

Conductor type	Type of conductor and conductor cross-section	AWG 28/1
	Type of conductor and conductor cross-section	AWG 28/19
Evaluation	passed	
Requirement	≥10 N	
Conductor type	Type of conductor and conductor cross-section	2 × AWG 24/1
	Type of conductor and conductor cross-section	2 × AWG 24/19 with wire end ferrule
Evaluation	passed	
Requirement	≥40 N	
Conductor type	Type of conductor and conductor cross-section	H05V-U1.5
	Type of conductor and conductor cross-section	H05V-K1.5
	Type of conductor and conductor cross-section	AWG 16/7
Evaluation	passed	

Important note

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.

Notes

- Additional variants 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.
- In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		

BL 3.50/20/180F SN OR BX

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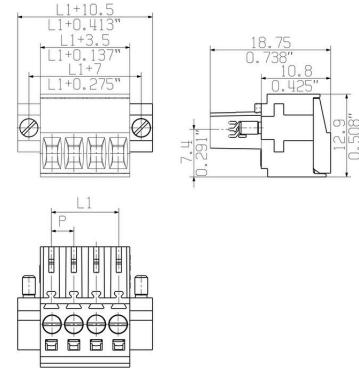
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Drawings

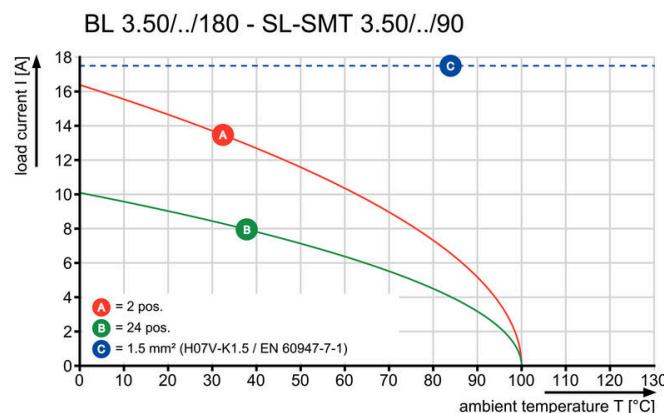
Product image



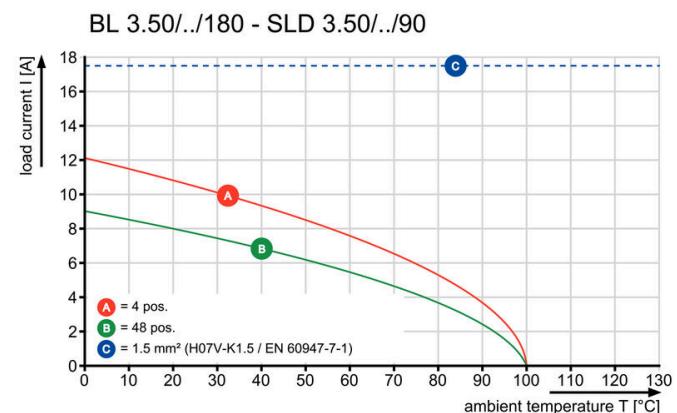
Dimensional drawing



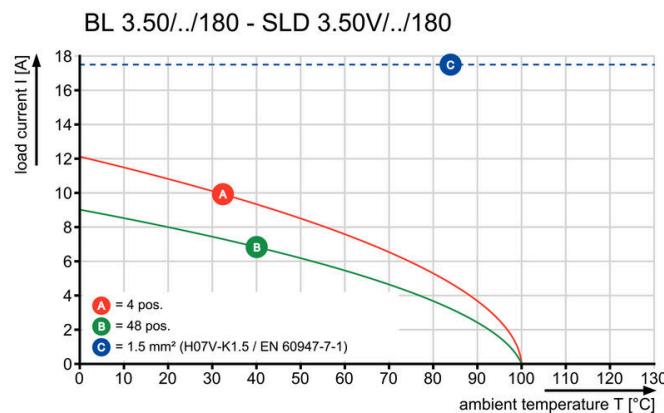
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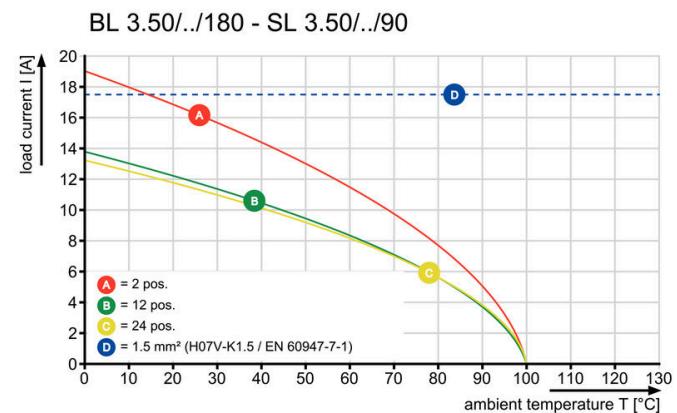
Graph



Graph



Graph



BL 3.50/20/180F SN OR BX

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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	BL 3.50 ZE03 BK BX	Version
Order No.	1627820000	PCB plug-in connector, Accessories, Strain relief, black, Number of
GTIN (EAN)	4008190202552	poles: 3
Qty.	50 ST	
Type	BL 3.50 ZE08 BK BX	Version
Order No.	1627830000	PCB plug-in connector, Accessories, Strain relief, black, Number of
GTIN (EAN)	4008190202576	poles: 8
Qty.	50 ST	
Type	BL 3.50 ZE03 OR BX	Version
Order No.	1629680000	PCB plug-in connector, Accessories, Strain relief, orange, Number of
GTIN (EAN)	4008190202569	poles: 3
Qty.	50 ST	
Type	BL 3.50 ZE08 OR BX	Version
Order No.	1629690000	PCB plug-in connector, Accessories, Strain relief, orange, Number of
GTIN (EAN)	4008190202583	poles: 8
Qty.	50 ST	

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 OR	Version
Order No.	1693430000	PCB plug-in connector, Accessories, Coding element, orange, Number
GTIN (EAN)	4008190867447	of poles: 1
Qty.	100 ST	

BL 3.50/20/180F SN OR BX

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Accessories

Type	BL SL 3.5 KO SW	Version
Order No.	1610100000	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4008190187637	of poles: 1
Qty.	100 ST	

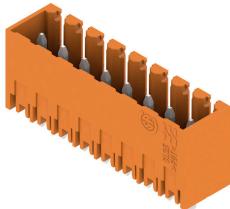
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Counterpart

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SL 3.50/180G

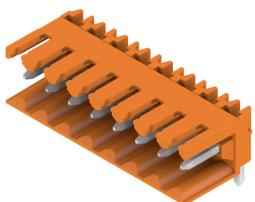


Pin headers for wave soldering in 3.50 mm pitch
 • Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
 • Housing variant: screw flange (F)
 • Packed in a cardboard box (BX)
 • Pin header can be coded

General ordering data

Type	SL 3.50/20/180G 4.5SN B...	Version
Order No.	1618640000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190125448	connection, 3.50 mm, Number of poles: 20, 180°, Solder pin length (l): 4.5 mm, tinned, black, Box
Qty.	20 ST	

SL 3.50/90

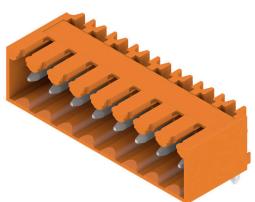


Pin headers for wave soldering in 3.50 mm pitch
 • Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
 • Housing variant: screw flange (F)
 • Packed in a cardboard box (BX)
 • Pin header can be coded

General ordering data

Type	SL 3.50/20/90 3.2SN OR ...	Version
Order No.	1619020000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190132262	connection, 3.50 mm, Number of poles: 20, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Qty.	20 ST	

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 3.50/20/90G 3.2SN OR...	Version
Order No.	1619410000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190139605	connection, 3.50 mm, Number of poles: 20, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Qty.	20 ST	

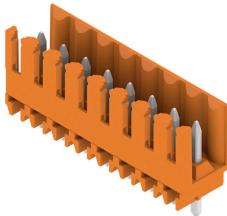
BL 3.50/20/180F SN OR BX

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Counterpart

SL 3.50/180

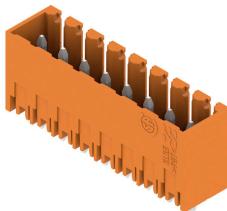


Pin headers for wave soldering in 3.50 mm pitch
 • Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
 • Housing variant: screw flange (F)
 • Packed in a cardboard box (BX)
 • Pin header can be coded

General ordering data

Type	SL 3.50/20/180 3.2SN OR...	Version
Order No.	1621430000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190172510	connection, 3.50 mm, Number of poles: 20, 180°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Qty.	20 ST	

SL 3.50/180G

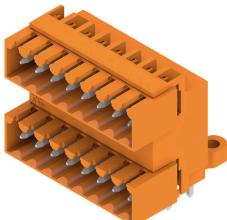


Pin headers for wave soldering in 3.50 mm pitch
 • Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
 • Housing variant: screw flange (F)
 • Packed in a cardboard box (BX)
 • Pin header can be coded

General ordering data

Type	SL 3.50/20/180G 3.2SN O...	Version
Order No.	1621820000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190181116	connection, 3.50 mm, Number of poles: 20, 180°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Qty.	20 ST	

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 3.50/40/90G 3.2SN O...	Version
Order No.	1633760000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190258214	connection, 3.50 mm, Number of poles: 40, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Qty.	10 ST	

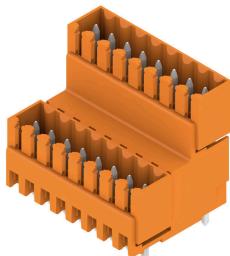
BL 3.50/20/180F SN OR BX

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Counterpart

SLD 3.50V/180G

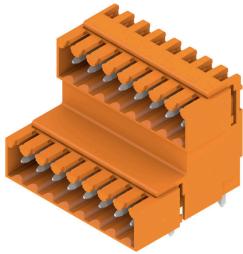


Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

General ordering data

Type	SLD 3.50V/40/180G 3.2SN...	Version
Order No.	1641200000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190279608	connection, 3.50 mm, Number of poles: 40, 180°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Qty.	10 ST	

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/40/90G 3.2SN ...	Version
Order No.	1642330000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190280857	connection, 3.50 mm, Number of poles: 40, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Qty.	10 ST	

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

BL 3.50/20/180F SN OR BX

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Counterpart

General ordering data

Type	SL-SMT 3.50/20/180G 3.2...	Version
Order No.	1842490000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248353842	connection, 3.50 mm, Number of poles: 20, 180°, Solder pin length
Qty.	20 ST	(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	SL-SMT 3.50/20/90G 3.2S...	Version
Order No.	1841810000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248353163	connection, 3.50 mm, Number of poles: 20, 90°, Solder pin length (l):
Qty.	20 ST	3.2 mm, tinned, black, 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	SL-SMT 3.50/20/135F 3.2...	Version
Order No.	1003700000	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248700325	connection, 3.50 mm, Number of poles: 20, 135°, Solder pin length
Qty.	24 ST	(l): 3.2 mm, tinned, black, Box

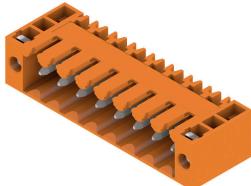
BL 3.50/20/180F SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergsstraße 26
D-32758 Detmold
Germany

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Counterpart

SL 3.50/90F

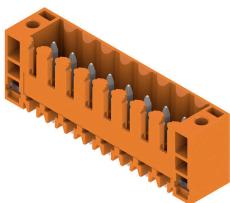


Pin headers for wave soldering in 3.50 mm pitch
 • Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
 • Housing variant: screw flange (F)
 • Packed in a cardboard box (BX)
 • Pin header can be coded

General ordering data

Type	SL 3.50/20/90F 4.5 SN B...	Version
Order No.	1618310000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190120153	3.50 mm, Number of poles: 20, 90°, Solder pin length (l): 4.5 mm, tinned, black, Box
Qty.	20 ST	

SL 3.50/180F

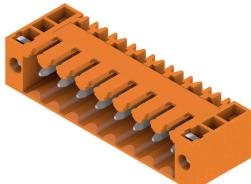


Pin headers for wave soldering in 3.50 mm pitch
 • Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
 • Housing variant: screw flange (F)
 • Packed in a cardboard box (BX)
 • Pin header can be coded

General ordering data

Type	SL 3.50/20/180F 4.5 SN ...	Version
Order No.	1618940000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190130398	3.50 mm, Number of poles: 20, 180°, Solder pin length (l): 4.5 mm, tinned, black, Box
Qty.	20 ST	

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 3.50/20/90F 3.2SN OR...	Version
Order No.	1619800000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190147549	3.50 mm, Number of poles: 20, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Qty.	20 ST	

BL 3.50/20/180F SN OR BX

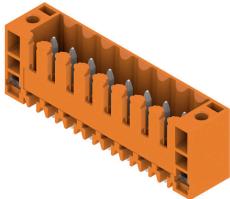
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Germany

Counterpart

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Type	SL 3.50/20/90F 3.2SN DK...	Version
Order No.	1620240000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190153878	3.50 mm, Number of poles: 20, 90°, Solder pin length (l): 3.2 mm,
Qty.	20 ST	tinned, Signal green, 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	SL 3.50/20/180F 3.2SN O...	Version
Order No.	1622210000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190188931	3.50 mm, Number of poles: 20, 180°, Solder pin length (l): 3.2 mm,
Qty.	20 ST	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	SLD 3.50/40/90F 3.2SN O...	Version
Order No.	1633990000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190258443	3.50 mm, Number of poles: 40, 90°, Solder pin length (l): 3.2 mm,
Qty.	10 ST	tinned, orange, Box

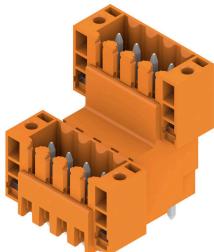
BL 3.50/20/180F SN OR BX

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Counterpart

SLD 3.50V/180F

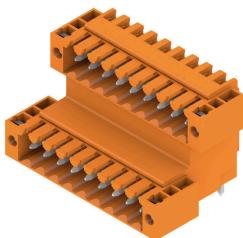


Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

General ordering data

Type	SLD 3.50 V/40/180F 3.2 ...	Version
Order No.	1641330000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190279738	3.50 mm, Number of poles: 40, 180°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Qty.	10 ST	

SLD 3.50V/90F

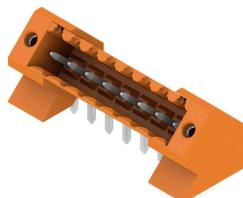


Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

General ordering data

Type	SLD 3.50 V/40/90F 3.2 S...	Version
Order No.	1642460000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190280987	3.50 mm, Number of poles: 40, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Qty.	10 ST	

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 3.50/20/135F 3.2SN O...	Version
Order No.	1643510000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190282271	3.50 mm, Number of poles: 20, 135°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Qty.	24 ST	

BL 3.50/20/180F SN OR BX

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Counterpart

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 3.50/20/180F 3.2...	Version
Order No.	1842950000	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248354412	connection, 3.50 mm, Number of poles: 20, 180°, Solder pin length
Qty.	24 ST	(l): 3.2 mm, 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 3.50/20/180LF 3....	Version
Order No.	1842720000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248354085	connection, 3.50 mm, Number of poles: 20, 180°, Solder pin length
Qty.	24 ST	(l): 3.2 mm, tinned, black, Box

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

BL 3.50/20/180F SN OR BX

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Counterpart

General ordering data

Type	SL-SMT 3.50/20/90LF 1.5...	Version
Order No.	1805120000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248269020	connection, 3.50 mm, Number of poles: 20, 90°, Solder pin length (l):
Qty.	24 ST	1.5 mm, tinned, black, 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	SL-SMT 3.50/20/90F 3.2...	Version
Order No.	1842260000	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248353613	connection, 3.50 mm, Number of poles: 20, 90°, Solder pin length (l):
Qty.	24 ST	3.2 mm, tinned, black, Box

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 3.50/20/90LF 3.2...	Version
Order No.	1842030000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248353385	connection, 3.50 mm, Number of poles: 20, 90°, Solder pin length (l):
Qty.	24 ST	3.2 mm, tinned, black, Box