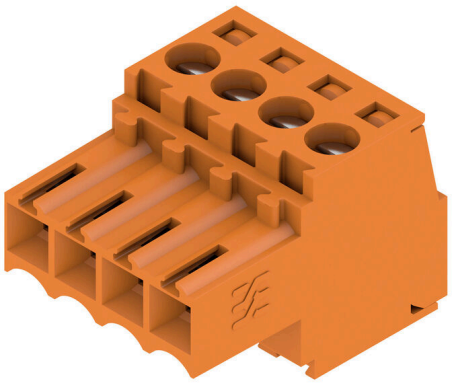
Data sheet

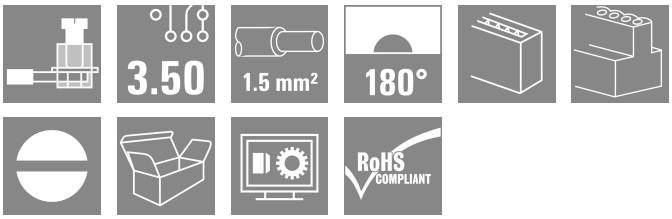
BL 3.50/04/180 SN OR BX

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

www.weidmueller.com

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: 4, 180°, Clamping yoke connection, Clamping range, max. : 1.5 mm², Box
Order No.	1597380000
Type	BL 3.50/04/180 SN OR BX
GTIN (EAN)	4008190111489
Qty.	132 items
Product data	IEC: 320 V / 17 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 14
Packaging	Box

BL 3.50/04/180 SN OR BX

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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	14 mm	Width (inches)	0.5512 inch
Net weight	2.88 g		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0,261 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	4		
L1 in mm	10.50 mm		
L1 in inches	0.413 "		
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	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

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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 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
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

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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
		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.		

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	351.00 mm
VPE width	140.00 mm	VPE height	28.00 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	Type of conductor and conductor cross-section	solid 0.2 mm²
		Type of conductor and conductor cross-section	stranded 0.2 mm²
		Type of conductor and conductor cross-section	solid 1.5 mm²
		Type of conductor and conductor cross-section	stranded 1.5 mm²
		Type of conductor and conductor cross-section	AWG 28/1
		Type of conductor and conductor cross-section	AWG 28/19
		Type of conductor and conductor cross-section	AWG 16/1
		Type of conductor and conductor cross-section	AWG 16/19
	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	Type of conductor and conductor cross-section	AWG 28/1
		Type of conductor and conductor cross-section	AWG 28/19
	Evaluation	passed	
	Requirement	0.3 kg	
	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	0.4 kg	
	Conductor type	Type of conductor and conductor cross-section	solid 1.5 mm²
		Type of conductor and conductor cross-section	stranded 1.5 mm²
		Type of conductor and conductor cross-section	AWG 16/7
	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		

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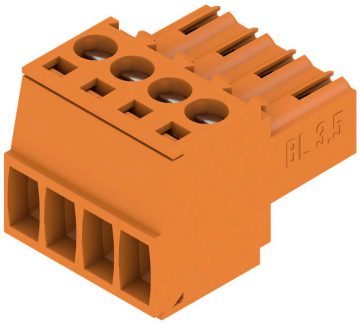
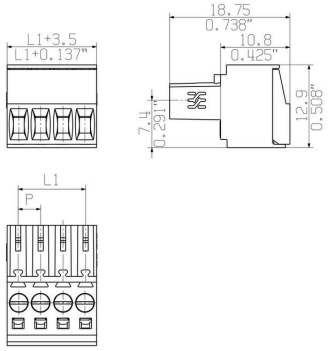
Drawings

Product image



Dimensional drawing



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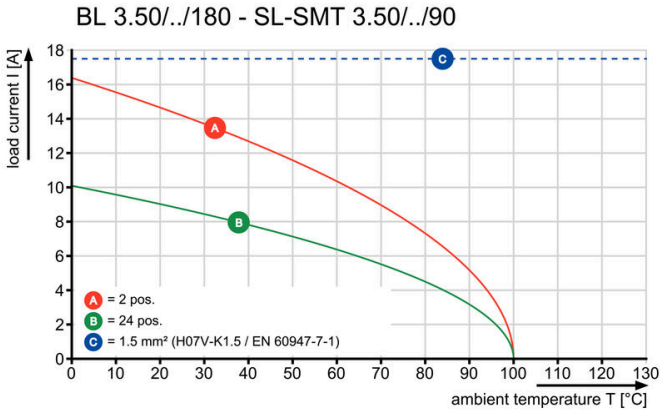

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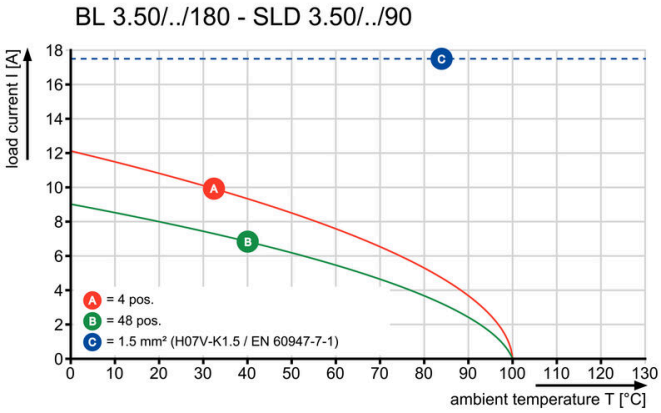

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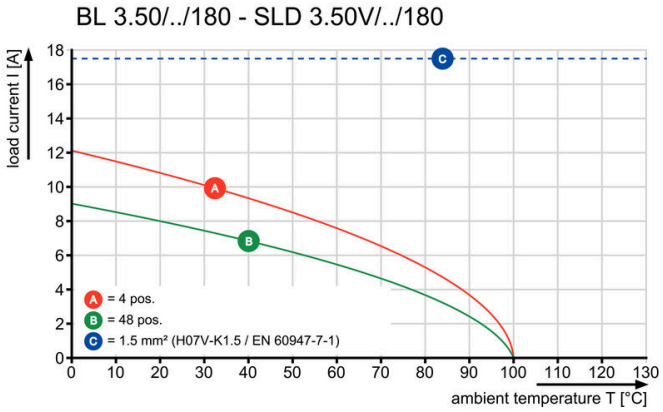

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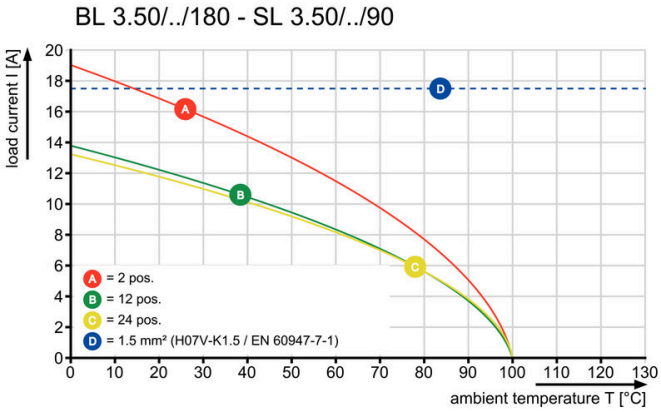

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Accessories

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 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	

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 3.50/04/180 SN OR BX

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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	BL 3.50 AH04 BK BX	Version
Order No.	1745590000	PCB plug-in connector, Accessories, Hood, black, Number of poles: 4
GTIN (EAN)	4008190985158	
Qty.	10 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 SW	Version
Order No.	1610100000	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4008190187637	of poles: 1
Qty.	100 ST	

BL 3.50/04/180 SN OR BX

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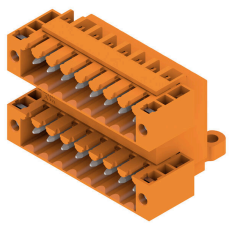
Counterpart

SLD 3.50/90F

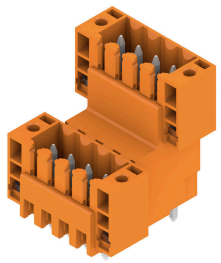


Two-tier pin header for wave soldering in 3.50 mm pitch. The connector is available in open, closed and flange versions. The male connectors provide space for labelling and can be coded. Packed in a cardboard box.

General ordering data

Type	SLD 3.50/08/90F 3.2SN O...	Version
Order No.	1633830000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190258283	3.50 mm, Number of poles: 8, 90°, Solder pin length (l): 3.2 mm,
Qty.	50 ST	tinned, orange, Box

SLD 3.50V/180F

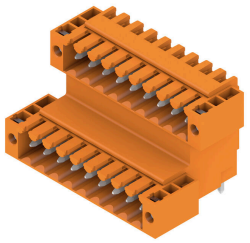


Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

General ordering data

Type	SLD 3.50 V/08/180F 3.2 ...	Version
Order No.	1641250000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190279653	3.50 mm, Number of poles: 8, 180°, Solder pin length (l): 3.2 mm,
Qty.	50 ST	tinned, orange, 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/08/90F 3.2 S...	Version
Order No.	1642380000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190280901	3.50 mm, Number of poles: 8, 90°, Solder pin length (l): 3.2 mm,
Qty.	50 ST	tinned, orange, Box

BL 3.50/04/180 SN OR BX

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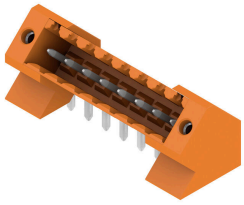
Counterpart

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 3.50/04/135F 3.2SN O...	Version
Order No.	1643350000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190282110	3.50 mm, Number of poles: 4, 135°, Solder pin length (l): 3.2 mm,
Qty.	84 ST	tinned, orange, Box

SL-SMT 3.5/180G Box

High-temperature-resistant male header, 3.50 mm pitch.
- Plugging direction parallel (90°), straight 180° or angled (135°) to PCB
- Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)
- Optimised for the SMT process
- Pin length 3.2 mm universal for all soldering methods
- Pin length 1.5 mm optimised for reflow soldering methods
- Packed either in a box (BX) or tape-on-reel (RL)
- Male header can be coded

General ordering data

Type	SL-SMT 3.50/04/180G 1.5...	Version
Order No.	1753002001	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248130894	connection, 3.50 mm, Number of poles: 4, 180°, Solder pin length (l):
Qty.	100 ST	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

BL 3.50/04/180 SN OR BX

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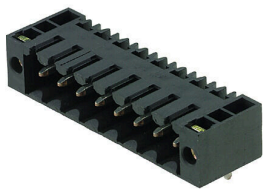
Counterpart

General ordering data

Type	SL-SMT 3.50/04/180F 1.5...	Version
Order No.	1760982001	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248131556	connection, 3.50 mm, Number of poles: 4, 180°, Solder pin length (l):
Qty.	84 ST	1.5 mm, tinned, black, Box

SL-SMT 3.5/90F Box

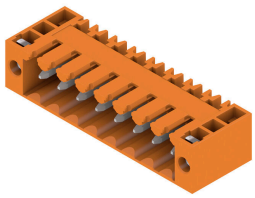


High-temperature-resistant male header, 3.50 mm pitch.
- Plugging direction parallel (90°), straight 180° or angled (135°) to PCB
- Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)
- Optimised for the SMT process
- Pin length 3.2 mm universal for all 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 3.50/04/90F 1.5S...	Version
Order No.	1762022001	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248132430	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	84 ST	1.5 mm, tinned, black, Box

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 3.50/04/90F 3.2SN OR...	Version
Order No.	1607060000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190131661	3.50 mm, Number of poles: 4, 90°, Solder pin length (l): 3.2 mm,
Qty.	100 ST	tinned, orange, Box

BL 3.50/04/180 SN OR BX

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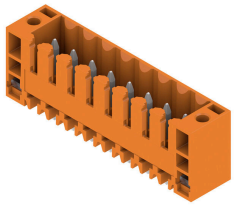
Counterpart

SL 3.50/180F

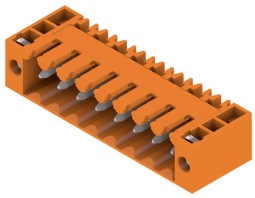


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/04/180F 3.2SN O...	Version
Order No.	1607520000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190039097	3.50 mm, Number of poles: 4, 180°, Solder pin length (l): 3.2 mm,
Qty.	100 ST	tinned, orange, Box

SL 3.50/90F

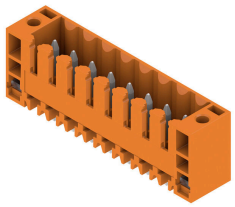


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/04/90F 4.5 SN B...	Version
Order No.	1615550000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190057220	3.50 mm, Number of poles: 4, 90°, Solder pin length (l): 4.5 mm,
Qty.	100 ST	tinned, black, 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 3.50/04/180F 4.5 SN ...	Version
Order No.	1616160000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190068301	3.50 mm, Number of poles: 4, 180°, Solder pin length (l): 4.5 mm,
Qty.	100 ST	tinned, black, Box

BL 3.50/04/180 SN OR BX

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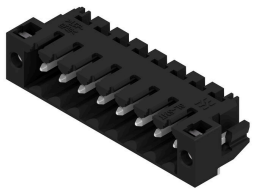
Counterpart

SL-SMT 3.5/90LF Box

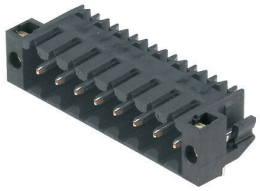


High-temperature-resistant male header, 3.50 mm pitch.
- Plugging direction parallel (90°), straight 180° or angled (135°) to PCB
- Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)
- Optimised for the SMT process
- Pin length 3.2 mm universal for all 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 3.50/04/90LF 1.5...	Version
Order No.	1804960000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248268863	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	84 ST	1.5 mm, tinned, black, Box

SL-SMT 3.5/90LF Tape

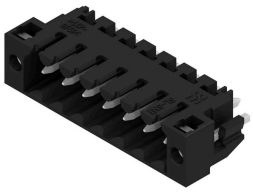


High-temperature-resistant male header, 3.50 mm pitch.
- Plugging direction parallel (90°), straight 180° or angled (135°) to PCB
- Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)
- Optimised for the SMT process
- Pin length 3.2 mm universal for all 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 3.50/04/90LF 1.5...	Version
Order No.	1805330000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248269587	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	385 ST	1.5 mm, tinned, black, Tape

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

BL 3.50/04/180 SN OR BX

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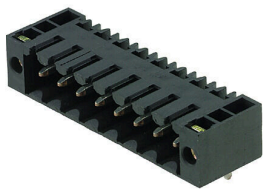
Counterpart

General ordering data

Type	SL-SMT 3.50/04/180LF 3....	Version
Order No.	1842560000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248353927	connection, 3.50 mm, Number of poles: 4, 180°, Solder pin length (l):
Qty.	84 ST	3.2 mm, tinned, black, Box

SL-SMT 3.5/90F Box

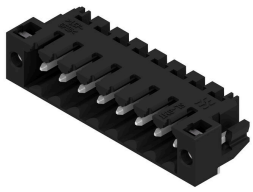


High-temperature-resistant male header, 3.50 mm pitch.
- Plugging direction parallel (90°), straight 180° or angled (135°) to PCB
- Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)
- Optimised for the SMT process
- Pin length 3.2 mm universal for all 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 3.50/04/90F 3.2S...	Version
Order No.	1842100000	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248353453	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	84 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 3.50/04/90LF 3.2...	Version
Order No.	1841880000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248353231	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	84 ST	3.2 mm, tinned, black, Box

BL 3.50/04/180 SN OR BX

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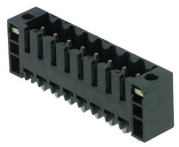
Counterpart

SL-SMT 3.5/180F Box

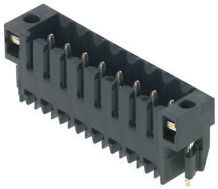


High-temperature-resistant male header, 3.50 mm pitch.
- Plugging direction parallel (90°), straight 180° or angled (135°) to PCB
- Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)
- Optimised for the SMT process
- Pin length 3.2 mm universal for all 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 3.50/04/180F 3.2...	Version
Order No.	1842790000	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248354153	connection, 3.50 mm, Number of poles: 4, 180°, Solder pin length (l):
Qty.	84 ST	3.2 mm, tinned, black, Box

SL-SMT 3.5/180LF Tape

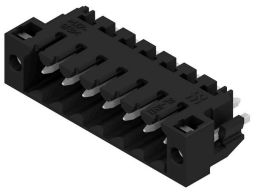


High-temperature-resistant male header, 3.50 mm pitch.
- Plugging direction parallel (90°), straight 180° or angled (135°) to PCB
- Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)
- Optimised for the SMT process
- Pin length 3.2 mm universal for all 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 3.50/04/180LF 1....	Version
Order No.	1805240000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248269518	connection, 3.50 mm, Number of poles: 4, 180°, Solder pin length (l):
Qty.	265 ST	1.5 mm, tinned, black, Tape

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

BL 3.50/04/180 SN OR BX

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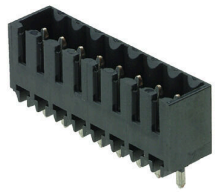
Counterpart

General ordering data

Type	SL-SMT 3.50/04/180LF 1....	Version
Order No.	1804720000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248268702	connection, 3.50 mm, Number of poles: 4, 180°, Solder pin length (l):
Qty.	84 ST	1.5 mm, tinned, black, Box

SL-SMT 3.5/180G Box

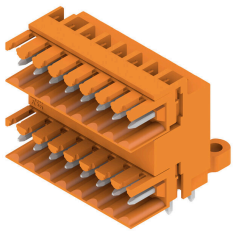


High-temperature-resistant male header, 3.50 mm pitch.
- Plugging direction parallel (90°), straight 180° or angled (135°) to PCB
- Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)
- Optimised for the SMT process
- Pin length 3.2 mm universal for all soldering methods
- Pin length 1.5 mm optimised for reflow soldering methods
- Packed either in a box (BX) or tape-on-reel (RL)
- Male header can be coded

General ordering data

Type	SL-SMT 3.50/04/180G 3.2...	Version
Order No.	1842340000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248353682	connection, 3.50 mm, Number of poles: 4, 180°, Solder pin length (l):
Qty.	100 ST	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 3.50/08/90 3.2SN OR...	Version
Order No.	1633370000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190257828	connection, 3.50 mm, Number of poles: 8, 90°, Solder pin length (l):
Qty.	50 ST	3.2 mm, tinned, orange, Box

BL 3.50/04/180 SN OR BX

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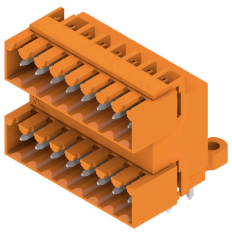
Counterpart

SLD 3.50/90G

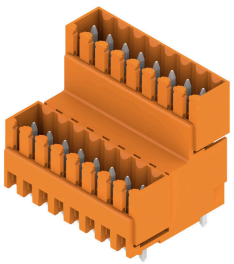


Two-tier pin header for wave soldering in 3.50 mm pitch. The connector is available in open, closed and flange versions. The male connectors provide space for labelling and can be coded. Packed in a cardboard box.

General ordering data

Type	SLD 3.50/08/90G 3.2SN O...	Version
Order No.	1633600000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190258054	connection, 3.50 mm, Number of poles: 8, 90°, Solder pin length (l):
Qty.	50 ST	3.2 mm, tinned, orange, Box

SLD 3.50V/180G

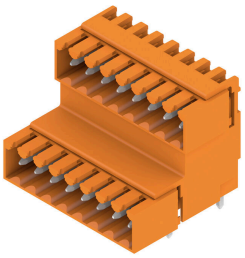


Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

General ordering data

Type	SLD 3.50V/08/180G 3.2SN...	Version
Order No.	1641120000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190279523	connection, 3.50 mm, Number of poles: 8, 180°, Solder pin length (l):
Qty.	50 ST	3.2 mm, tinned, orange, 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/08/90G 3.2SN ...	Version
Order No.	1642250000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190280772	connection, 3.50 mm, Number of poles: 8, 90°, Solder pin length (l):
Qty.	50 ST	3.2 mm, tinned, orange, Box

BL 3.50/04/180 SN OR BX

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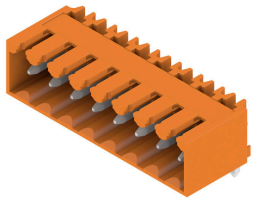
Counterpart

Type	SLD 3.50V/08/90G 4.5SN ...	Version
Order No.	1642870000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190281465	connection, 3.50 mm, Number of poles: 8, 90°, Solder pin length (l):
Qty.	50 ST	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 3.50/04/90G 3.2SN BK...	Version
Order No.	1719990000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190354275	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	120 ST	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 3.50/04/90G 1.5S...	Version
Order No.	1761562001	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248132058	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	100 ST	1.5 mm, tinned, black, Box

BL 3.50/04/180 SN OR BX

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Counterpart

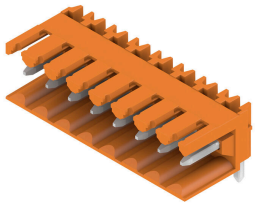
SL-SMT 3.5/90G Tape

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 3.50/04/90G 1.5S...	Version
Order No.	1761564001	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248135905	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	385 ST	1.5 mm, tinned, black, Tape

SL 3.50/90

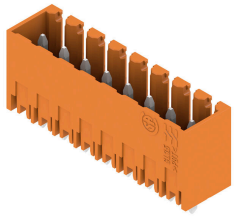


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/04/90 3.2SN OR ...	Version
Order No.	1597230000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190029838	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	100 ST	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

BL 3.50/04/180 SN OR BX

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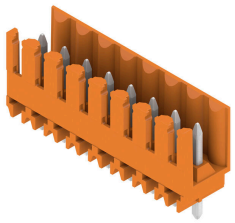
Counterpart

General ordering data

Type	SL 3.50/04/180G 3.2SN O...	Version
Order No.	1604490000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190115852	connection, 3.50 mm, Number of poles: 4, 180°, Solder pin length (l):
Qty.	100 ST	3.2 mm, tinned, orange, Box
Type	SL 3.50/04/180G 4.5SN O...	Version
Order No.	1604640000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190120467	connection, 3.50 mm, Number of poles: 4, 180°, Solder pin length (l):
Qty.	100 ST	4.5 mm, tinned, orange, Box

SL 3.50/180

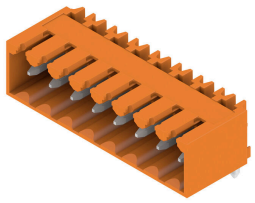


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/04/180 3.2SN OR...	Version
Order No.	1604790000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190127855	connection, 3.50 mm, Number of poles: 4, 180°, Solder pin length (l):
Qty.	100 ST	3.2 mm, tinned, orange, Box
Type	SL 3.50/04/180 4.5 SN O...	Version
Order No.	1604940000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190029449	connection, 3.50 mm, Number of poles: 4, 180°, Solder pin length (l):
Qty.	100 ST	4.5 mm, tinned, orange, 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 3.50/04/90G 3.2SN OR...	Version
Order No.	1605090000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190054304	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	100 ST	3.2 mm, tinned, orange, Box

BL 3.50/04/180 SN OR BX

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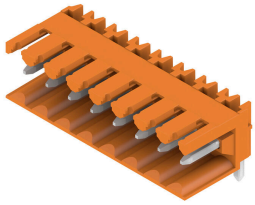
Counterpart

SL 3.50/90

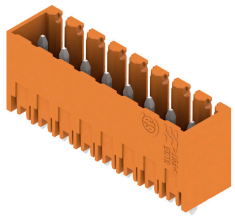


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/04/90 3.2SN DKG...	Version
Order No.	1606820000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190108311	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	100 ST	3.2 mm, tinned, Signal green, Box

SL 3.50/180G

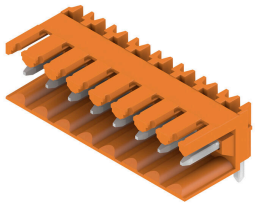


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/04/180G 3.2SN D...	Version
Order No.	1607370000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190151362	connection, 3.50 mm, Number of poles: 4, 180°, Solder pin length (l):
Qty.	100 ST	3.2 mm, tinned, Signal green, 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 3.50/04/90 4.5SN BK ...	Version
Order No.	1615310000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190052539	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	100 ST	4.5 mm, tinned, black, Box

BL 3.50/04/180 SN OR BX

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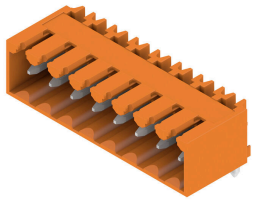
Counterpart

SL 3.50/90G

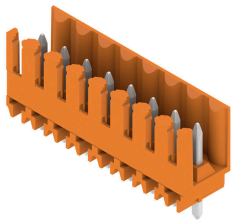


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/04/90G4.5SN BK ...	Version
Order No.	1615430000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190054496	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	100 ST	4.5 mm, tinned, black, Box

SL 3.50/180

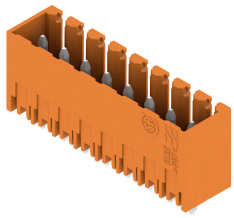


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/04/180 4.5SN BK...	Version
Order No.	1615940000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190064198	connection, 3.50 mm, Number of poles: 4, 180°, Solder pin length (l):
Qty.	100 ST	4.5 mm, tinned, black, 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	SL 3.50/04/180G 4.5SN B...	Version
Order No.	1616030000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190065492	connection, 3.50 mm, Number of poles: 4, 180°, Solder pin length (l):
Qty.	100 ST	4.5 mm, tinned, black, Box

BL 3.50/04/180 SN OR BX

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Counterpart

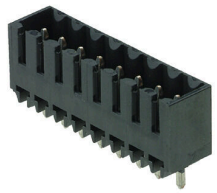
SL-SMT 3.5/90G Box

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 3.50/04/90G 3.2S...	Version
Order No.	1841650000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248352807	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	100 ST	3.2 mm, tinned, black, Box

SL-SMT 3.5/180G Tape



High-temperature-resistant male header, 3.50 mm pitch.
- Plugging direction parallel (90°), straight 180° or angled (135°) to PCB
- Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)
- Optimised for the SMT process
- Pin length 3.2 mm universal for all soldering methods
- Pin length 1.5 mm optimised for reflow soldering methods
- Packed either in a box (BX) or tape-on-reel (RL)
- Male header can be coded

General ordering data

Type	SL-SMT 3.50/04/180G 1.5...	Version
Order No.	1753004002	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248193219	connection, 3.50 mm, Number of poles: 4, 180°, Solder pin length (l):
Qty.	265 ST	1.5 mm, tinned, black, Tape

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

BL 3.50/04/180 SN OR BX

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Counterpart

General ordering data

Type	SL-SMT 3.50/04/90G 1.5S...	Version
Order No.	1761564002	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248193349	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	385 ST	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	SL-SMT 3.50/04/135F 3.2...	Version
Order No.	1003530000	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248700165	connection, 3.50 mm, Number of poles: 4, 135°, Solder pin length (l):
Qty.	84 ST	3.2 mm, tinned, black, Box