

#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Female plugs with spring connection (PUSH IN) as a plugin connection level for decentralised I/O electronic components; used together with male headers in a 3.50-mm pitch.

#### **General ordering data**

Version	PCB plug-in connector, female plug, 3.50 mm,
	Number of poles: 10, 180°, PUSH IN with actua-
	tor, Clamping range, max.: 1.5 mm², Box
Order No.	<u>1871690000</u>
Туре	BL-I/O 3.50/10F SN LTGY BX
GTIN (EAN)	4032248451197
Qty.	20 items
Product data	IEC: 200 V / 2.2 A / 0.2 - 1.5 mm <sup>2</sup>
	UL: 50 V / 5 A / AWG 24 - AWG 16
Packaging	Вох





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# **Technical data**

#### **Approvals**

Approvals



ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (UR)	E60693

#### **Dimensions and weights**

Depth	27.6 mm	Depth (inches)	1.0866 inch
Height	10.3 mm	Height (inches)	0.4055 inch
Width	42 mm	Width (inches)	1.6535 inch
Net weight	11.2 g		

#### **Environmental Product Compliance**

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

#### **System Parameters**

Product family	OMNIMATE Signal - series BL/SL 3.50			
Type of connection	Field connection			
Wire connection method	PUSH IN with actuator			
Pitch in mm (P)	3.50 mm			
Pitch in inches (P)	0.138 "			
Conductor outlet direction	180°			
Number of poles	10			
L1 in mm	31.50 mm			
L1 in inches	1.240 "			
Number of rows	1			
Pin series quantity	2			
Rated cross-section	1 mm <sup>2</sup>			
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			
Volume resistance	≤5 mΩ			
Can be coded	Yes			
Stripping length	8 mm			
Screwdriver blade	0.4 x 2.5			
Screwdriver blade standard	DIN 5264			
Plugging cycles	25			
Plugging force/pole, max.	6 N			
Pulling force/pole, max.	6 N			
Tightening torque	Torque type	Screw flange		
	Usage information	Tightening torque	min.	0.15 Nm
			max.	0.2 Nm

### **Material data**

Insulating material	PBT	Colour	Light Grey	
Colour chart (similar)	RAL 7035	Insulating material group	Illa	

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# **Technical data**

Comparative Tracking Index (CTI)	≥ 200	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact base material	Cu-alloy
Contact material	Cu-alloy	Contact surface	tinned
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	75 °C
Temperature range, installation, min.	-30 °C	Temperature range, installation, max.	75 °C

#### **Conductors suitable for connection**

Clamping range, min.	0.2 mm <sup>2</sup>		
Clamping range, max.	1.5 mm²		
Wire connection cross section AWG, min.	AWG 24		
Wire connection cross section AWG, max.	AWG 16		
Solid, min. H05(07) V-U	0.2 mm <sup>2</sup>		
Solid, max. H05(07) V-U	1.5 mm <sup>2</sup>		
Flexible, min. H05(07) V-K	0.2 mm <sup>2</sup>		
Flexible, max. H05(07) V-K	1.5 mm²		
w. plastic collar ferrule, DIN 46228 pt min.	4, 0.2 mm <sup>2</sup>		
w. plastic collar ferrule, DIN 46228 pt max.	4, 0.75 mm²		
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm <sup>2</sup>		
w. wire end ferrule, DIN 46228 pt 1, max.	1 mm <sup>2</sup>		
Plug gauge in accordance with EN 60999 a x b; ø	2.4 mm x 1.5 mm; 1.9mm		
Clampable conductor	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.25 mm <sup>2</sup>

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Clampable conductor	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.25 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,25/12 HBL
	Cross-section for conductor connection	Type	fine-wired
		nominal	0.34 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,34/12 TK
	Cross-section for conductor connection	Type	fine-wired
		nominal	0.5 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,5/14 OR
	Cross-section for conductor connection	Type	fine-wired
		nominal	0.75 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire-	H0,75/14T HBL

### Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	2.2 A
Rated current, max. number of poles (Tu=20°C)	2 A	Rated current, min. number of poles (Tu=40°C)	2.2 A
Rated current, max. number of poles (Tu=40°C)	2 A	Rated voltage for surge voltage class / pollution degree II/2	200 V
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated voltage for surge voltage class / pollution degree III/3	50 V

end ferrule

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# **Technical data**

Rated impulse voltage for surge voltage 2500 V class/ pollution degree II/2	Rated impulse voltage for surge voltage 2.5 kV class/ pollution degree III/2
Rated impulse voltage for surge voltage 0.8 kV class/contamination degree III/3	Short-time withstand current resistance 3 x 1s with 120 A

#### Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1202189
Rated voltage (Use group B / CSA)	50 V	Rated voltage (Use group D / CSA)	50 V
Rated current (Use group B / CSA)	5 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 16
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)	50 V	Rated voltage (Use group D / UL 1059)	50 V
Rated current (Use group B / UL 1059)	5 A	Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 16
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

#### **Packing**

Packaging	Box	VPE length	126.00 mm
VPE width	89.00 mm	VPE height	40.00 mm

#### Type tests

Test: Durability of markings	Standard	draft DIN VDE 0627 section 6.2.2 / 09.91
	Test	mark of origin, type identification, pitch, type of material
	Evaluation	available
	Test	durability
	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 solid 0.2 mm <sup>2</sup> and conductor cross-section
		Type of conductor stranded 0.2 mm <sup>2</sup> and conductor cross-section
		Type of conductor solid 1.5 mm <sup>2</sup> and conductor cross-section
		Type of conductor stranded 1.5 mm <sup>2</sup> and conductor cross-section
		Type of conductor AWG 24/1 and conductor cross-section
		Type of conductor AWG 24/19 and conductor cross-section
		Type of conductor AWG 16/1 and conductor cross-section

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# **Technical data**

		Type of conductor AWG 16/19 and conductor cross-section
	Evaluation	passed
Test for damage to and accidental	Standard	DIN EN 60999 section 8.4 / 04.94
loosening of conductors	Requirement	0.2 kg
	Conductor type	Type of conductor stranded 0.05 mm <sup>2</sup> and conductor cross-section
	Evaluation	passed
	Requirement	0.3 kg
	Conductor type	Type of conductor solid 0.5 mm <sup>2</sup> and conductor cross-section
		Type of conductor AWG 24/1 and conductor cross-section
		Type of conductor AWG 24/19 and conductor cross-section
	Evaluation	passed
	Requirement	0.4 kg
	Conductor type	Type of conductor solid 1.5 mm <sup>2</sup> and conductor cross-section
		Type of conductor stranded 1.5 mm <sup>2</sup> and conductor cross-section
		Type of conductor AWG 16/1 and conductor cross-section
		Type of conductor AWG 16/19 and conductor cross-section
	Evaluation	passed
Pull-out test	Standard	DIN EN 60999 section 8.5 / 04.94
	Requirement	≥10 N
	Conductor type	Type of conductor AWG 24/1 and conductor cross-section
		Type of conductor AWG 24/19 and conductor cross-section
	Evaluation	passed
	Requirement	≥30 N
	Conductor type	Type of conductor H05V-U0.5 and conductor cross-section
		Type of conductor H05V-K0.5 and conductor cross-section
	Evaluation	passed
	Requirement	≥40 N
	Conductor type	Type of conductor H05V-U1.5 and conductor cross-section
		Type of conductor H05V-K1.5 and conductor cross-section
	Evaluation	passed





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# **Technical data**

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	<ul> <li>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.</li> <li>P on drawing = pitch</li> <li>Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.</li> <li>Total load-carrying capacity of the potential bridges when feeding with 1.5 mm² is max. 17.5 A (so the capacity is 2.18 A for poles 2 through 9)</li> <li>Wire end ferrule without plastic collar to DIN 46228/1</li> <li>Wire end ferrule with plastic collar to DIN 46228/4</li> <li>Conductor &lt; 0.2 mm² tinned</li> <li>Max. outer diameter of the conductor: 2.9 mm</li> <li>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</li> <li>Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul>

#### Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 9.0	27-44-03-09
ECLASS 9.1	27-44-03-09	ECLASS 10.0	27-44-03-09
ECLASS 11.0	27-46-02-02	ECLASS 12.0	27-46-02-02
ECLASS 13.0	27-46-02-02	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		



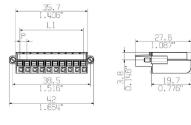
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# **Drawings**

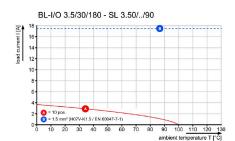
### **Dimensional drawing**





Graph Graph

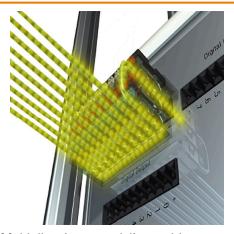




#### **Product benefits**

Solid PUSH IN contactSafe and durable

#### **Product benefits**



Multiplies the potentialLow wiring costs



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# **Drawings**

#### **Product benefits**



PUSH IN - fast and secureInvented by Weidmüller

#### **Product benefits**



Integrated electronicsFor more space on the circuit board



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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**

Туре	BL SL 3.5 KO OR	Version
Order No.	<u>1693430000</u>	PCB plug-in connector, Accessories, Coding element, orange, Number
GTIN (EAN)	4008190867447	of poles: 1
Qty.	100 ST	
Туре	BL SL 3.5 KO SW	Version
Type Order No.	BL SL 3.5 KO SW 1610100000	Version PCB plug-in connector, Accessories, Coding element, black, Number
• •		

#### **Slotted screwdriver**



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

#### **General ordering data**

Туре	SDS 0.4X2.5X75	Version
Order No.	9009030000	Screwdriver, Screwdriver
GTIN (EAN)	4032248266944	
Qty.	1 ST	
Туре	SDIS 0.4X2.5X75	Version
Order No.	9008370000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056330	
Qty.	1 ST	

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# Accessories

#### **Crimping tools**



Crimping tools for wire end ferrules, with and without plastic collars

- Ratchet guarantees precise crimping
- Release option in the event of incorrect operation

#### **General ordering data**

Туре	PZ 1.5	Version
Order No.	9005990000	Pressing tool, Crimping tool for wire-end ferrules, 0.14mm², 1.5mm²,
GTIN (EAN)	4008190085964	Trapezoidal crimp
Qty.	1 ST	
Туре	PZ 6/5	Version
Type Order No.	PZ 6/5 9011460000	Version Pressing tool, Crimping tool for wire-end ferrules, 0.25mm², 6mm²,
	· ·	



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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**

Туре	SLD 3.50/20/90G 3.2SN O	Version
Order No.	<u>1633660000</u>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190258115	connection, 3.50 mm, Number of poles: 20, 90°, Solder pin length (I):
Qty.	20 ST	3.2 mm, tinned, orange, Box
Туре	SLD 3.50/20/90G 4.5SN B	Version
Type Order No.	SLD 3.50/20/90G 4.5SN B 1634350000	Version PCB plug-in connector, male header, closed side, THT solder
	, ,	

#### 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**

Туре	SL 3.50/10/90G 3.2SN BK	Version
Order No.	<u>1689780000</u>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190860738	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (I):
Qty.	50 ST	3.2 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

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# Counterpart

#### **General ordering data**

Туре	SL-SMT 3.50/10/180G 1.5	Version
Order No.	<u>1753062001</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248130962	connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length
Qty.	50 ST	(I): 1.5 mm, tinned, black, Box

#### **SL-SMT 3.50/180 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 3.50/10/180 1.5S	Version
Order No.	<u>1760812001</u>	PCB plug-in connector, male header, open side, THT/THR solder
GTIN (EAN)	4032248131273	connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length
Qty.	50 ST	(I): 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 3.50/10/180F 1.5	Version
Order No.	<u>1761042001</u>	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248131617	connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length
Qty.	42 ST	(I): 1.5 mm, tinned, black, Box
Туре	SL-SMT 3.50/10/180F 1.5	Version
Order No.	<u>1761043001</u>	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248133420	connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length
Qty.	36 ST	(I): 1.5 mm, tinned, black, Tray



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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**

Туре	SL-SMT 3.50/10/90G 1.5S	Version
Order No.	<u>1761622001</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248132218	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (I):
Qty.	50 ST	1.5 mm, tinned, black, Box

#### **SL-SMT 3.5/90G Tape**



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

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

#### **General ordering data**

Туре	SL-SMT 3.50/10/90G 1.5S	Version
Order No.	<u>1761624001</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248136063	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (I):
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

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# Counterpart

#### **General ordering data**

Туре	SL 3.50/10/90 3.2SN OR	Version
Order No.	<u>1597290000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190165277	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (I):
Qty.	50 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

#### **General ordering data**

	- · · · · · · · · · · · · · · · · · · ·	
Туре	SL 3.50/10/180G 3.2SN O	Version
Order No.	1604550000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190111663	connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length
Qty.	50 ST	(I): 3.2 mm, tinned, orange, Box
Туре	SL 3.50/10/180G 4.5SN O	Version
Order No.	1604700000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190058616	connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length

#### 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**

Туре	SL 3.50/10/180 3.2SN OR	Version
Order No.	<u>1604850000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190096649	connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length
Qty.	50 ST	(I): 3.2 mm, tinned, orange, Box
Туре	SL 3.50/10/180 4.5 SN O	Version
Order No.	1605000000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190165802	connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length
Qty.	50 ST	(I): 4.5 mm, tinned, orange, Box

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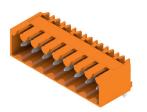
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# Counterpart

#### 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**

Туре	SL 3.50/10/90G 3.2SN OR	Version
Order No.	1605150000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190183998	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (I):
Qty.	50 ST	3.2 mm, tinned, orange, Box

#### SL 3.50/90



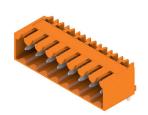
Pin headers for wave soldering in 3.50 mm pitch

- 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 3.50/10/90 4.5SN OR	Version
Order No.	1605450000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190138363	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (I):
Qty.	50 ST	4.5 mm, tinned, orange, Box
Туре	SL 3.50/10/90 4.5SN BK	Version
Type Order No.	SL 3.50/10/90 4.5SN BK 1615360000	Version PCB plug-in connector, male header, open side, THT solder

#### 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

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# Counterpart

#### **General ordering data**

Type SL 3.50/10/90G 4.5SN BK... Version
Order No. 1615470000 PCB plug-in connector, male header, closed side, THT solder

GTIN (EAN) 4008190055677 connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (I):

Qty. 50 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 3.50/10/180G 4.5SN B...
 Version

 Order No.
 1616080000
 PCB plug-in connector, male header, closed side, THT solder

 GTIN (EAN)
 4008190065973
 connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length

 Qty.
 50 ST
 (I): 4.5 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

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- 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**

Туре	SL-SMT 3.50/10/180G 3.2	Version
Order No.	1836990000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248345076	connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length
Qty.	50 ST	(I): 3.2 mm, tinned, black, Box



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# Counterpart

#### **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 3.50/10/180LF 1	Version
Order No.	1804780000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248268566	connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length
Qty.	42 ST	(I): 1.5 mm, tinned, black, Box
Type	SL-SMT 3.50/10/180LF 3	Version
Type Order No.	SL-SMT 3.50/10/180LF 3 1842620000	Version PCB plug-in connector, male header, Solder flange, THT/THR solder
	, ,	

#### **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 SI	SL-SMT 3.50/10/90G 3.2S	Version
Order No.	<u>1841710000</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN) 40	4032248353064	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (I):
Qty. 50	50 ST	3.2 mm, tinned, black, Box



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### Counterpart

#### **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**

Туре	SL-SMT 3.50/10/135F 3.2	Version	
Order No.	1003590000	PCB plug-in connector, male header, Flange, THT/THR solder	
GTIN (EAN)	4032248700219	connection, 3.50 mm, Number of poles: 10, 135°, Solder pin length	
Qty.	42 ST	(I): 3.2 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**

Туре	SL 3.50/10/90F 3.2SN DK	Version
Order No.	<u>1620140000</u>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190152437	3.50 mm, Number of poles: 10, 90°, Solder pin length (I): 3.2 mm,
Qty.	50 ST	tinned, Signal green, 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.

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# Counterpart

#### **General ordering data**

Type SLD 3.50/20/90F 3.2SN O... Version

Order No. 1633890000 PCB plug-in connector, male header, Flange, THT solder connection,

GTIN (EAN) 4008190258344 3.50 mm, Number of poles: 20, 90°, Solder pin length (I): 3.2 mm,

Oty. 20 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/20/180F 3.2 ...
 Version

 Order No.
 1641280000
 PCB plug-in connector, male header, Flange, THT solder connection,

 GTIN (EAN)
 4008190279684
 3.50 mm, Number of poles: 20, 180°, Solder pin length (I): 3.2 mm,

 Qty.
 20 ST
 tinned, orange, Box

#### 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**

Туре	SL 3.50/10/135F 3.2SN O	Version
Order No.	<u>1643410000</u>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190282172	3.50 mm, Number of poles: 10, 135°, Solder pin length (I): 3.2 mm,
Qty.	42 ST	tinned, orange, Box

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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 3.50/10/90F 3.2SN BK...
 Version

 Order No.
 1681720000
 PCB plug-in connector, male header, Flange, THT solder connection,

 GTIN (EAN)
 4008190472528
 3.50 mm, Number of poles: 10, 90°, Solder pin length (I): 3.2 mm,

 Qty.
 50 ST
 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

Туре	SL-SMT 3.50/10/180G 1.5	Version
Order No.	<u>1753064001</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248135660	connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length
Qty.	265 ST	(I): 1.5 mm, tinned, black, Tape

#### **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





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# Counterpart

#### **General ordering data**

Type SL-SMT 3.50/10/90F 1.5S... Version

Order No. 1762082001 PCB plug-in connector, male header, Flange, THT/THR solder

GTIN (EAN) 4032248132492 connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (I):

Oty. 42 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**

Туре	SL 3.50/10/90F 3.2SN OR	Version
Order No.	<u>1607120000</u>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190079710	3.50 mm, Number of poles: 10, 90°, Solder pin length (I): 3.2 mm,
Qty.	50 ST	tinned, orange, 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**

Туре	SL 3.50/10/180F 3.2SN O	Version
Order No.	1607580000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190187545	3.50 mm, Number of poles: 10, 180°, Solder pin length (I): 3.2 mm,
Qty.	50 ST	tinned, orange, Box
Qty.	00 01	unitos, statigo, zox



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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 3.50/10/90F 4.5 SN B...
 Version

 Order No.
 1615600000
 PCB plug-in connector, male header, Flange, THT solder connection,

 GTIN (EAN)
 4008190057633
 3.50 mm, Number of poles: 10, 90°, Solder pin length (I): 4.5 mm,

 Oty.
 50 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**

Туре	SL 3.50/10/180F 4.5 SN	Version
Order No.	1616210000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190068929	3.50 mm, Number of poles: 10, 180°, Solder pin length (I): 4.5 mm,
Qty.	50 ST	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

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- 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



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### Counterpart

#### **General ordering data**

Type	SL-SMT 3.50/10/90LF 3.2	Version
Order No.	1841940000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248353293	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (I):
Qty.	42 ST	3.2 mm, tinned, black, Box
Туре	SL-SMT 3.50/10/90LF 1.5	Version
Type Order No.	SL-SMT 3.50/10/90LF 1.5 1805020000	Version PCB plug-in connector, male header, Solder flange, THT/THR solder
	, ,	

#### **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**

Туре	SL-SMT 3.50/10/180F 3.2	Version
Order No.	1842850000	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248354313	connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length
Qty.	42 ST	(I): 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**

Туре	SL-SMT 3.50/10/90F 3.2S	Version
Order No.	1842160000	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248353514	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (I):
Qty.	42 ST	3.2 mm, tinned, black, Box



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# Counterpart

#### 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**

Туре	SL-SMT 3.50/10/90LF 1.5	Version
Order No.	1005180000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248704545	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (I):
Qty.	385 ST	1.5 mm, tinned, black, Tape