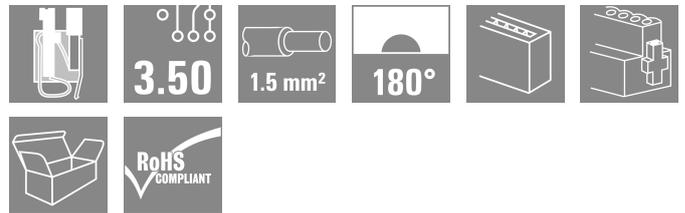


BL-I/O 3.50/30F NPN LED SN BK BX

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

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Female plugs with spring connection (PUSH IN) as a plug-in 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: 30, 180°, PUSH IN with actuator, Clamping range, max. : 1.5 mm ² , Box
Order No.	1938020000
Type	BL-I/O 3.50/30F NPN LED SN BK BX
GTIN (EAN)	4032248610235
Qty.	20 items
Product data	IEC: 200 V / 2.2 A / 0.2 - 1.5 mm ² UL: 50 V / 5 A / AWG 24 - AWG 16
Packaging	Box

BL-I/O 3.50/30F NPN LED SN BK BX

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (UR) E60693

Dimensions and weights

Height	18.4 mm	Height (inches)	0.7244 inch
Width	42 mm	Width (inches)	1.6535 inch
Net weight	22.8 g		

Environmental Product Compliance

RoHS Compliance Status Compliant with exemption

RoHS Exemption (if applicable/known) 7cl

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	30		
L1 in mm	31.50 mm		
L1 in inches	1.240 "		
Number of rows	1		
Pin series quantity	1		
Rated cross-section	1 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		
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	black
Colour of operational elements	grey, blue, red	Colour chart (similar)	RAL 9011

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Insulating material group	IIIa	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 ²
Clamping range, max.	1.5 mm ²
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 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, 0.75 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 mm ²
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	Type	fine-wired
		nominal	0.25 mm ²
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 ²	
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 ²	
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 ²	
wire end ferrule		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	H0.75/14T HBL

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)	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

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Technical data

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
Rated impulse voltage for surge voltage class/ pollution degree II/2	2500 V	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	0.8 kV	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	186.00 mm
VPE width	109.00 mm	VPE height	39.00 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		
Test: Clampable cross section	Evaluation	passed		
	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 mm ²	
		Type of conductor and conductor cross-section	stranded 0.2 mm ²	
		Type of conductor and conductor cross-section	solid 1.5 mm ²	
		Type of conductor and conductor cross-section	stranded 1.5 mm ²	
Type of conductor and conductor cross-section		AWG 24/1		

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Technical data

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

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Technical data

	Type of conductor and conductor cross-section	H05V-K1.5
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**
- 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.
 - P on drawing = pitch
 - Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
 - 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)
 - Wire end ferrule without plastic collar to DIN 46228/1
 - Wire end ferrule with plastic collar to DIN 46228/4
 - Conductor < 0.2 mm² tinned
 - Max. outer diameter of the conductor: 2.9 mm
 - 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		

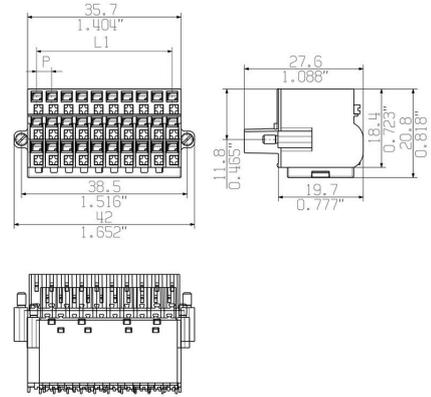
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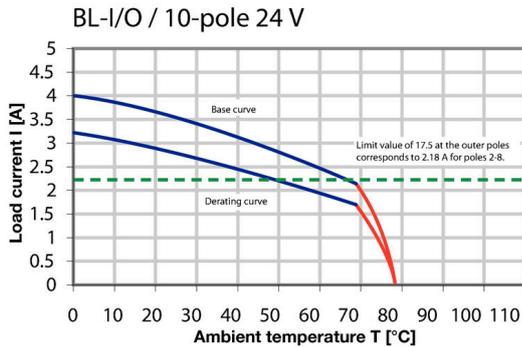
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Drawings

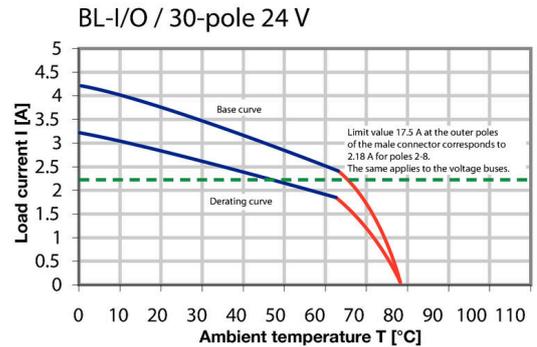
Dimensional drawing



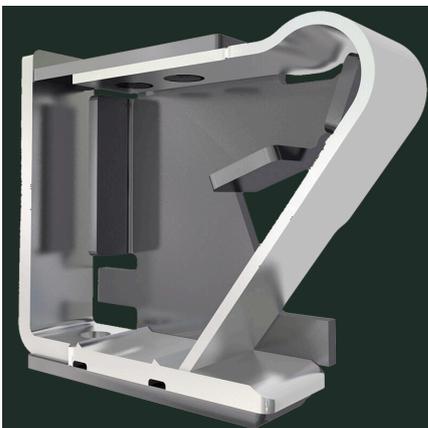
Graph



Graph

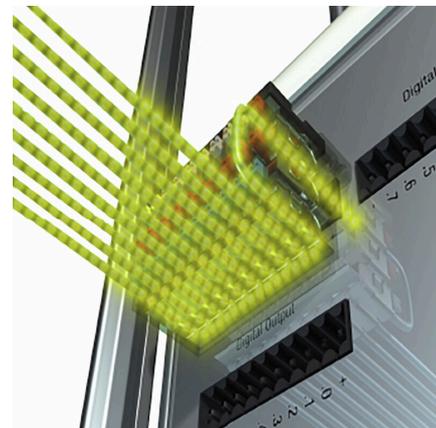


Product benefits



Solid PUSH IN contactSafe and durable

Product benefits



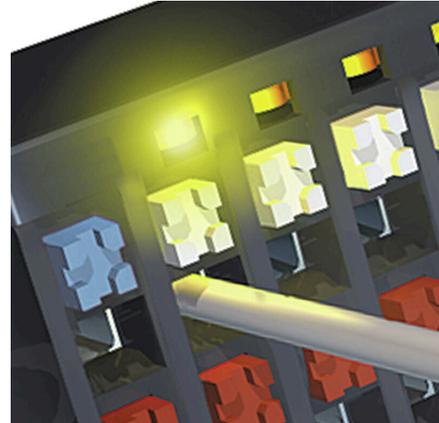
Multiplies the potentialLow wiring costs

Product benefits



PUSH IN - fast and secure
Invented by Weidmüller

Product benefits



Integrated electronics
For more space on the circuit board

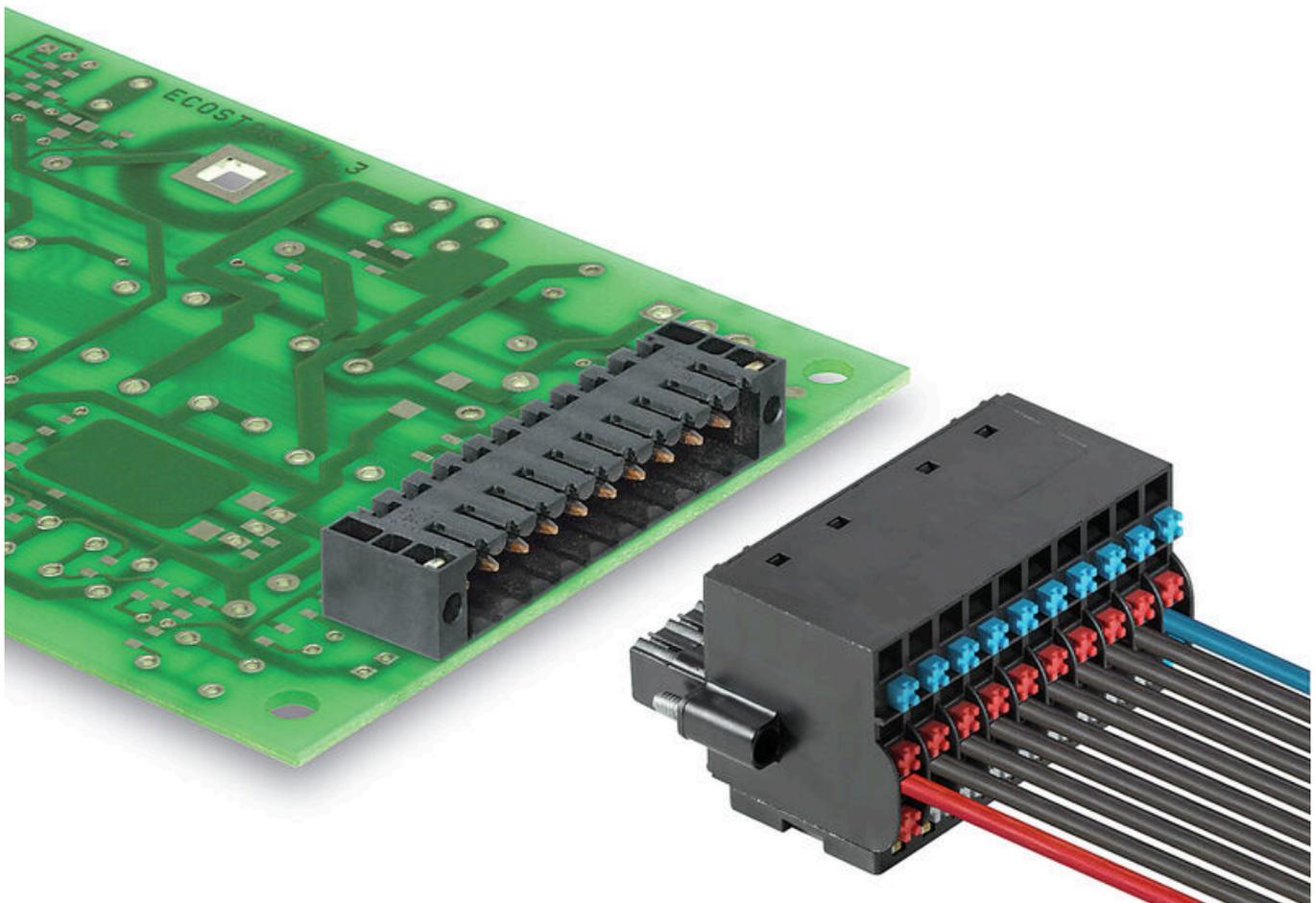
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Drawings

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Example of use



BL-I/O 3.50/30F NPN LED SN BK BX

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Accessories

Coding elements



Only connects what is supposed to be connected: the right connection at the right place.
 Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation
 The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery. Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

Type	BL SL 3.5 KO OR	Version
Order No.	1693430000	PCB plug-in connector, Accessories, Coding element, orange, Number
GTIN (EAN)	4008190867447	of poles: 1
Qty.	100 ST	
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	

Additional accessories



No task is too small when creating the perfect solution. Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but useful details:

- Test plugs - ensure reliable pick-up from diagnostic sockets
- Cross-connectors - ensure a stable electrical distribution contact directly at the connection
- Compartment partition elements - divide a large number of male connectors into several separate socket connector channels
- Locks and clips - optional vibration-resistant clip-on connection or mounting for male and female connectors

In tandem with the manufacturing process and application - more accessories = smaller workload

General ordering data

Type	BL-I/O JUMPER SET	Version
Order No.	1858970000	PCB plug-in connector, Accessories, Cross-connector, red / blue,
GTIN (EAN)	4032248410590	Number of poles: 2
Qty.	1 ST	

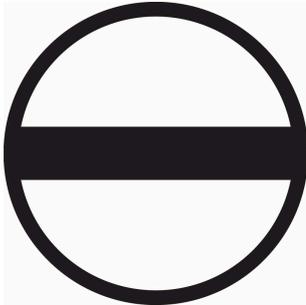
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Accessories

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

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

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

Type	PZ 1.5	Version	
Order No.	9005990000	Pressing tool, Crimping tool for wire-end ferrules, 0.14mm ² , 1.5mm ² , Trapezoidal crimp	
GTIN (EAN)	4008190085964		
Qty.	1 ST		
Type	PZ 6/5	Version	
Order No.	9011460000	Pressing tool, Crimping tool for wire-end ferrules, 0.25mm ² , 6mm ² , Trapezoidal indentation crimp	
GTIN (EAN)	4008190165352		
Qty.	1 ST		

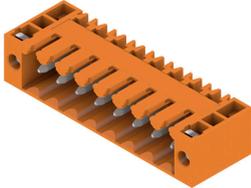
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Counterpart

SL 3.50/90F



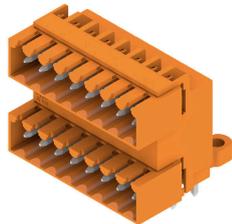
Pin headers for wave soldering in 3.50 mm pitch

- 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 DK...	Version
Order No.	1620140000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190152437	3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 3.2 mm,
Qty.	50 ST	tinned, Signal green, Box

SLD 3.50/90G

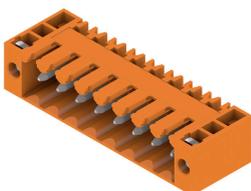


Two-tier pin header for wave soldering in 3.50 mm pitch. The connector is available in open, closed and flange versions. The male connectors provide space for labelling and can be coded. Packed in a cardboard box.

General ordering data

Type	SLD 3.50/20/90G 3.2SN O...	Version
Order No.	1633660000	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 (l):
Qty.	20 ST	3.2 mm, tinned, orange, Box
Type	SLD 3.50/20/90G 4.5SN B...	Version
Order No.	1634350000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190258801	connection, 3.50 mm, Number of poles: 20, 90°, Solder pin length (l):
Qty.	20 ST	4.5 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

BL-I/O 3.50/30F NPN LED SN BK BX

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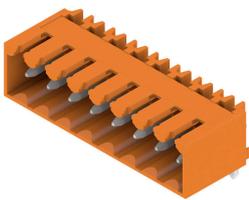
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Counterpart

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 (l): 3.2 mm,
Qty.	50 ST	tinned, black, Box

SL 3.50/90G



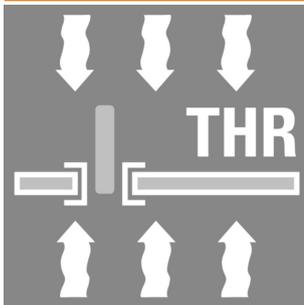
Pin headers for wave soldering in 3.50 mm pitch

- 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 3.50/10/90G 3.2SN BK...	Version
Order No.	1689780000	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 (l):
Qty.	50 ST	3.2 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.	1760812001	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	(l): 1.5 mm, tinned, black, Box

BL-I/O 3.50/30F NPN LED SN BK 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 3.50/10/90G 1.5S...	Version
Order No.	1761622001	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 (l):
Qty.	50 ST	1.5 mm, tinned, black, Box

SL-SMT 3.5/90G Tape

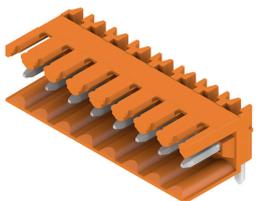


- High-temperature-resistant male header, 3.50 mm pitch.
- Plugging direction parallel (90°), straight 180° or angled (135°) to PCB
 - Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)
 - Optimised for the SMT process
 - Pin length 3.2 mm universal 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

Type	SL-SMT 3.50/10/90G 1.5S...	Version
Order No.	1761624001	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 (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

BL-I/O 3.50/30F NPN LED SN BK BX

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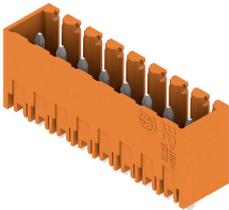
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Counterpart

General ordering data

Type	SL 3.50/10/90 3.2SN OR ...	Version
Order No.	1597290000	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 (l):
Qty.	50 ST	3.2 mm, tinned, orange, Box

SL 3.50/180G



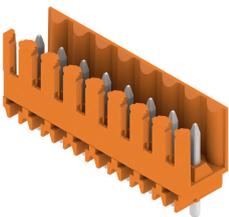
Pin headers for wave soldering in 3.50 mm pitch

- 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

Type	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	(l): 3.2 mm, tinned, orange, Box
Type	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
Qty.	50 ST	(l): 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 3.50/10/180 3.2SN OR...	Version
Order No.	1604850000	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	(l): 3.2 mm, tinned, orange, Box
Type	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	(l): 4.5 mm, tinned, orange, Box

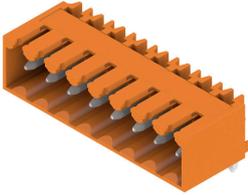
BL-I/O 3.50/30F NPN LED SN BK BX

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Counterpart

SL 3.50/90G



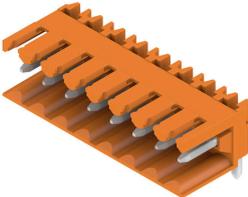
Pin headers for wave soldering in 3.50 mm pitch

- 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 3.50/10/90G 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 (l):
Qty.	50 ST	3.2 mm, tinned, orange, Box

SL 3.50/90



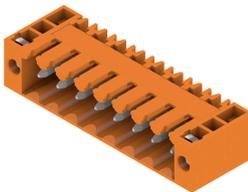
Pin headers for wave soldering in 3.50 mm pitch

- 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 (l):
Qty.	50 ST	4.5 mm, 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 3.50/10/90F 3.2SN OR...	Version
Order No.	1607120000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190079710	3.50 mm, Number of poles: 10, 90°, Solder pin length (l): 3.2 mm,
Qty.	50 ST	tinned, orange, Box

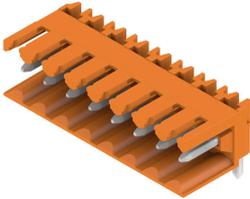
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SL 3.50/90



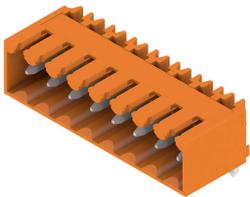
Pin headers for wave soldering in 3.50 mm pitch

- 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 BK ...	Version
Order No.	1615360000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190053024	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l):
Qty.	50 ST	4.5 mm, tinned, black, Box

SL 3.50/90G



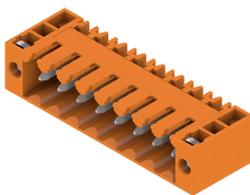
Pin headers for wave soldering in 3.50 mm pitch

- 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 3.50/10/90G 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 (l):
Qty.	50 ST	4.5 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 3.50/10/90F 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 (l): 4.5 mm,
Qty.	50 ST	tinned, black, Box

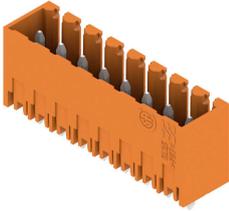
BL-I/O 3.50/30F NPN LED SN BK BX

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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 3.50/10/180G 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	(l): 4.5 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 3.50/10/180LF 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	(l): 1.5 mm, tinned, black, Box
Type	SL-SMT 3.50/10/180LF 3....	Version
Order No.	1842620000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248353989	connection, 3.50 mm, Number of poles: 10, 180°, Solder pin length
Qty.	42 ST	(l): 3.2 mm, tinned, black, Box

BL-I/O 3.50/30F NPN LED SN BK 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 3.50/10/90G 3.2S...	Version
Order No.	1841710000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248353064	connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l):
Qty.	50 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 3.50/10/135F 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	(l): 3.2 mm, tinned, black, 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.

BL-I/O 3.50/30F NPN LED SN BK BX

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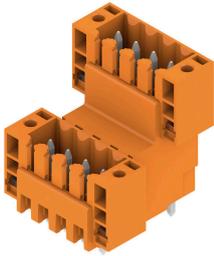
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Counterpart

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 (l): 3.2 mm,
Qty.	20 ST	tinned, orange, Box

SLD 3.50V/180F

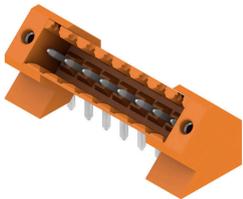


Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

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 (l): 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

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

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Counterpart

SL-SMT 3.5/90F Box



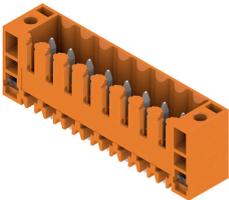
High-temperature-resistant male header, 3.50 mm pitch.

- 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 3.50/10/90F 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 (l):
Qty.	42 ST	1.5 mm, 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 3.50/10/180F 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 (l): 3.2 mm,
Qty.	50 ST	tinned, orange, Box
Type	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 (l): 4.5 mm,
Qty.	50 ST	tinned, black, Box

BL-I/O 3.50/30F NPN LED SN BK 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 3.50/10/90LF 3.2...	Version
Order No.	1841940000	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l):
GTIN (EAN)	4032248353293	3.2 mm, tinned, black, Box
Qty.	42 ST	
Type	SL-SMT 3.50/10/90LF 1.5...	Version
Order No.	1805020000	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 3.50 mm, Number of poles: 10, 90°, Solder pin length (l):
GTIN (EAN)	4032248268924	1.5 mm, tinned, black, Box
Qty.	42 ST	

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

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Counterpart

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 3.50/10/90F 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 (l):
Qty.	42 ST	3.2 mm, tinned, black, Box

SL-SMT 3.5/90LF Tape



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

General ordering data

Type	SL-SMT 3.50/10/90LF 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 (l):
Qty.	385 ST	1.5 mm, tinned, black, Tape