Data sheet

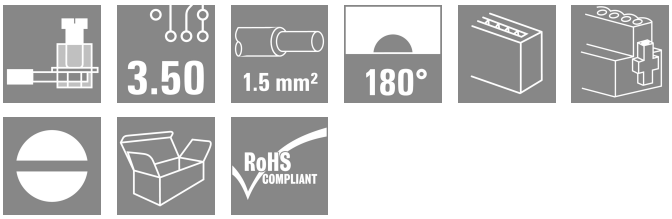
BL 3.50/16/180F SN BK BX

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: 16, 180°, Clamping yoke connection, Clamping range, max. : 1.5 mm², Box
Order No.	1615920000
Type	BL 3.50/16/180F SN BK BX
GTIN (EAN)	4008190064143
Qty.	24 items
Product data	IEC: 320 V / 17 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 14
Packaging	Box

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Data sheet

BL 3.50/16/180F SN BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
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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	63 mm	Width (inches)	2.4803 inch
Net weight	15.3 g		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0,571 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	16			
L1 in mm	52.50 mm			
L1 in inches	2.067 "			
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
	Torque type	Screw flange		
	Usage information	Tightening torque	min.	0.15 Nm
			max.	0.2 Nm

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Data sheet

BL 3.50/16/180F SN BK BX

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Technical data

Material data

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	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	352.00 mm
VPE width	137.00 mm	VPE height	26.00 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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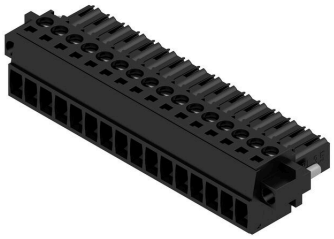
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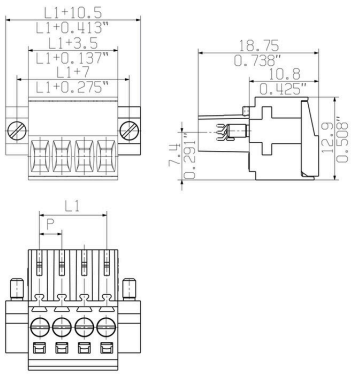
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Drawings

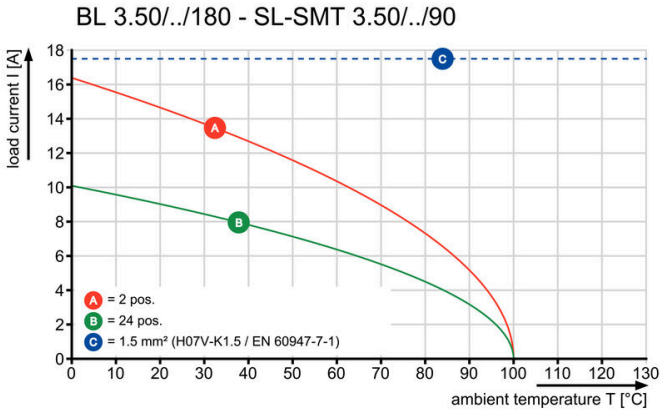
Product image



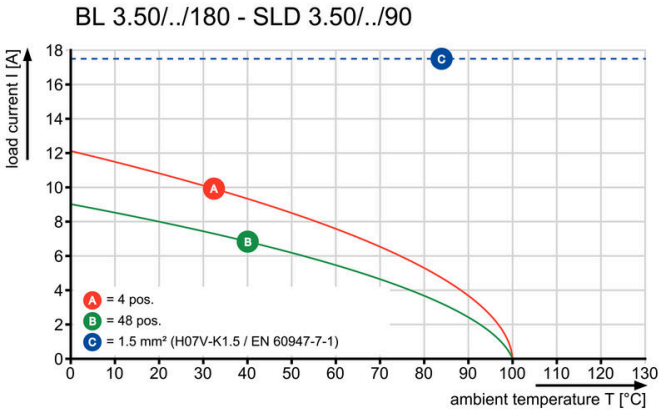
Dimensional drawing



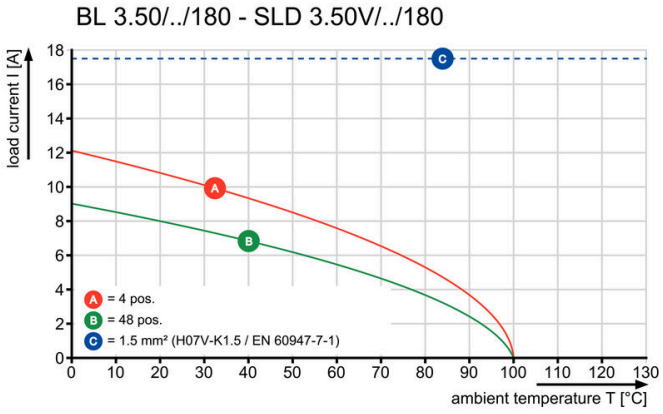
Graph



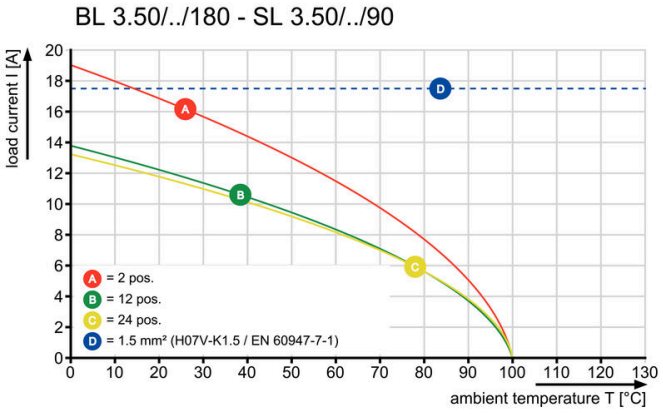
Graph



Graph



Graph



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Accessories

Strain reliefs



For frequent load changes: the "trailer coupling" for plug-in connectors.
The strain relief can do more than just relieve the strain on conductors:
Simply clip onto the plug and
• bundle conductors
• guide cables
• use as a connection and disconnection aid
No damage to the connecting points, clear, tidy wiring and easy to handle.
User advantages: permanent heavy-duty connections for harsh industrial environments and convenient operation ensure improved system availability.

General ordering data

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

Coding elements



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

General ordering data

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

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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 AH16 BK BX	Version
Order No.	1745710000	PCB plug-in connector, Accessories, Hood, black, Number of poles: 16
GTIN (EAN)	4008190985134	
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	

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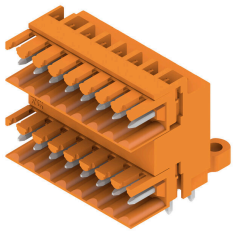
BL 3.50/16/180F SN BK BX

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Counterpart

SLD 3.50/90

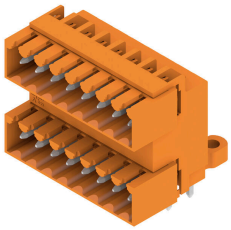


Two-tier pin header for wave soldering in 3.50 mm pitch. The connector is available in open, closed and flange versions. The male connectors provide space for labelling and can be coded. Packed in a cardboard box.

General ordering data

Type	SLD 3.50/32/90 3.2SN OR...	Version
Order No.	1633490000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190257941	connection, 3.50 mm, Number of poles: 32, 90°, Solder pin length (l):
Qty.	10 ST	3.2 mm, tinned, orange, Box

SLD 3.50/90G

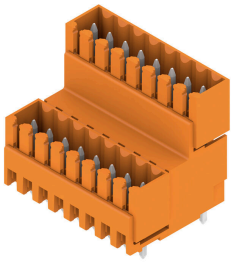


Two-tier pin header for wave soldering in 3.50 mm pitch. The connector is available in open, closed and flange versions. The male connectors provide space for labelling and can be coded. Packed in a cardboard box.

General ordering data

Type	SLD 3.50/32/90G 3.2SN O...	Version
Order No.	1633720000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190258177	connection, 3.50 mm, Number of poles: 32, 90°, Solder pin length (l):
Qty.	10 ST	3.2 mm, tinned, orange, Box
Type	SLD 3.50/32/90G 4.5SN B...	Version
Order No.	1634410000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190258863	connection, 3.50 mm, Number of poles: 32, 90°, Solder pin length (l):
Qty.	10 ST	4.5 mm, tinned, black, Box

SLD 3.50V/180G



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

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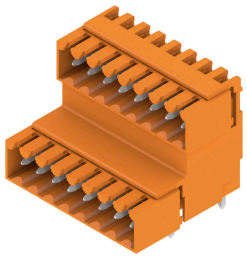
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Counterpart

General ordering data

Type	SLD 3.50V/32/180G 3.2SN...	Version
Order No.	1641180000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190279585	connection, 3.50 mm, Number of poles: 32, 180°, Solder pin length
Qty.	10 ST	(l): 3.2 mm, tinned, orange, Box
Type	SLD 3.50V/32/180G 4.5SN...	Version
Order No.	1641800000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190280215	connection, 3.50 mm, Number of poles: 32, 180°, Solder pin length
Qty.	10 ST	(l): 4.5 mm, tinned, black, Box

SLD 3.50V/90G



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

General ordering data

Type	SLD 3.50V/32/90G 3.2SN ...	Version
Order No.	1642310000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190280833	connection, 3.50 mm, Number of poles: 32, 90°, Solder pin length (l):
Qty.	10 ST	3.2 mm, tinned, orange, Box
Type	SLD 3.50 V/32/90G 4.5 S...	Version
Order No.	1642930000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190281526	connection, 3.50 mm, Number of poles: 32, 90°, Solder pin length (l):
Qty.	10 ST	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
- 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 3.50/16/180G 1.5...	Version
Order No.	1753122001	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248131020	connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length
Qty.	50 ST	(l): 1.5 mm, tinned, black, Box

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BL 3.50/16/180F SN BK BX

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Counterpart

SL-SMT 3.5/90G Box

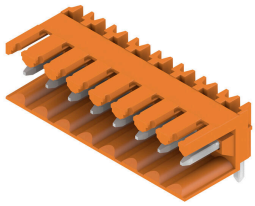


High-temperature-resistant male header, 3.50 mm pitch.
- Plugging direction parallel (90°), straight 180° or angled (135°) to PCB
- Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)
- Optimised for the SMT process
- Pin length 3.2 mm universal for all 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 3.50/16/90G 1.5S...	Version
Order No.	1761682001	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248132270	connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	50 ST	1.5 mm, tinned, black, Box

SL 3.50/90

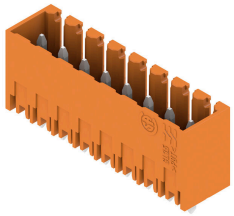


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/16/90 3.2SN OR ...	Version
Order No.	1597350000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190105594	connection, 3.50 mm, Number of poles: 16, 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

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BL 3.50/16/180F SN BK BX

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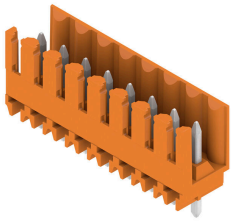
www.weidmueller.com

Counterpart

General ordering data

Type	SL 3.50/16/180G 3.2SN O...	Version
Order No.	1604610000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190112615	connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length
Qty.	50 ST	(l): 3.2 mm, tinned, orange, Box

SL 3.50/180

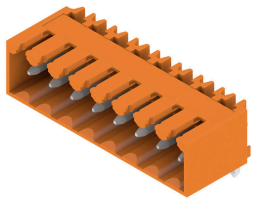


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/16/180 3.2SN OR...	Version
Order No.	1604910000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190034023	connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length
Qty.	50 ST	(l): 3.2 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 3.50/16/90G 3.2SN OR...	Version
Order No.	1605210000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190129255	connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	50 ST	3.2 mm, tinned, orange, Box
Type	SL 3.50/16/90G 4.5SN OR...	Version
Order No.	1605360000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190001834	connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	50 ST	4.5 mm, tinned, orange, Box

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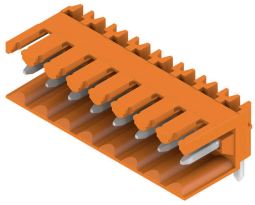
BL 3.50/16/180F SN BK BX

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Counterpart

SL 3.50/90

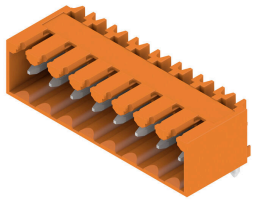


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/16/90 4.5SN BK ...	Version
Order No.	1614150000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190020033	connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	50 ST	4.5 mm, tinned, black, Box

SL 3.50/90G

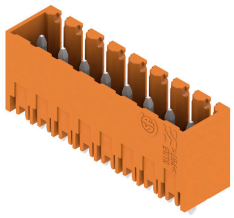


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/16/90G 4.5SN BK...	Version
Order No.	1614190000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190020941	connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l):
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 3.50/16/180G 4.5SN B...	Version
Order No.	1614260000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190021740	connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length
Qty.	50 ST	(l): 4.5 mm, tinned, black, Box

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BL 3.50/16/180F 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 3.50/16/90G 3.2S...	Version
Order No.	1841770000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248353125	connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l):
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

General ordering data

Type	SL-SMT 3.50/16/180G 3.2...	Version
Order No.	1842450000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248353804	connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length
Qty.	50 ST	(l): 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

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BL 3.50/16/180F SN BK BX

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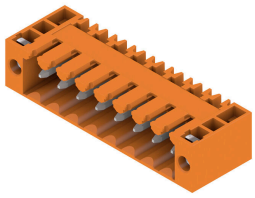
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Counterpart

General ordering data

Type	SL-SMT 3.50/16/135F 3.2...	Version
Order No.	1003660000	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248700288	connection, 3.50 mm, Number of poles: 16, 135°, Solder pin length
Qty.	24 ST	(l): 3.2 mm, tinned, black, Box

SL 3.50/90F

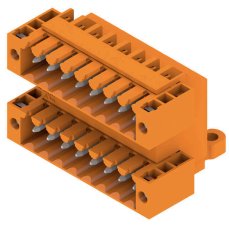


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/16/90F 4.5 SN O...	Version
Order No.	1618190000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190117412	3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 4.5 mm,
Qty.	50 ST	tinned, orange, Box
Type	SL 3.50/16/90F 3.2SN DK...	Version
Order No.	1620200000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190153168	3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 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.

General ordering data

Type	SLD 3.50/32/90F 3.2SN O...	Version
Order No.	1633950000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190258405	3.50 mm, Number of poles: 32, 90°, Solder pin length (l): 3.2 mm,
Qty.	10 ST	tinned, orange, Box
Type	SLD 3.50/32/90F 4.5SN B...	Version
Order No.	1634640000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190259099	3.50 mm, Number of poles: 32, 90°, Solder pin length (l): 4.5 mm,
Qty.	10 ST	tinned, black, Box

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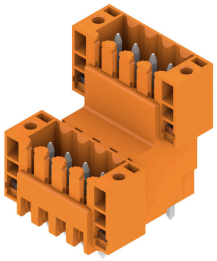
BL 3.50/16/180F SN BK BX

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Counterpart

SLD 3.50V/180F

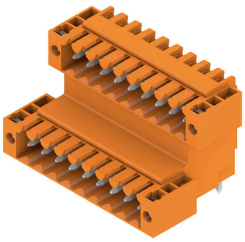


Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

General ordering data

Type	SLD 3.50 V/32/180F 3.2 ...	Version
Order No.	1641310000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190279714	3.50 mm, Number of poles: 32, 180°, Solder pin length (l): 3.2 mm,
Qty.	10 ST	tinned, orange, Box
Type	SLD 3.50V/32/180F 4.5SN...	Version
Order No.	1642040000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190280499	3.50 mm, Number of poles: 32, 180°, Solder pin length (l): 4.5 mm,
Qty.	10 ST	tinned, black, Box

SLD 3.50V/90F

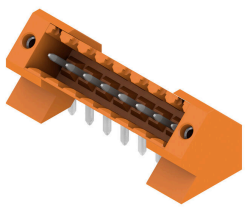


Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

General ordering data

Type	SLD 3.50 V/32/90F 3.2 S...	Version
Order No.	1642440000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190280963	3.50 mm, Number of poles: 32, 90°, Solder pin length (l): 3.2 mm,
Qty.	10 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

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BL 3.50/16/180F SN BK BX

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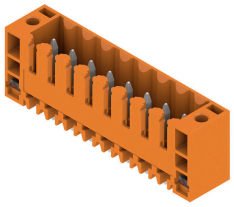
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Counterpart

General ordering data

Type	SL 3.50/16/135F 3.2SN O...	Version
Order No.	1643470000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190282233	3.50 mm, Number of poles: 16, 135°, Solder pin length (l): 3.2 mm,
Qty.	24 ST	tinned, orange, Box
Type	SL 3.50/16/135F 4.5SN B...	Version
Order No.	1643950000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190282714	3.50 mm, Number of poles: 16, 135°, Solder pin length (l): 4.5 mm,
Qty.	24 ST	tinned, black, Box

SL 3.50/180F

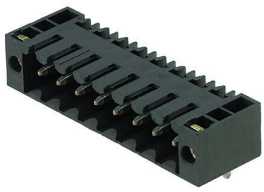


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/16/180F 3.2AU O...	Version
Order No.	1740130000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190960506	3.50 mm, Number of poles: 16, 180°, Solder pin length (l): 3.2 mm,
Qty.	50 ST	Gold-plated, orange, 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 3.50/16/90F 1.5S...	Version
Order No.	1762142001	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248132553	connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	50 ST	1.5 mm, tinned, black, Box

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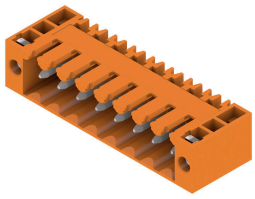
BL 3.50/16/180F SN BK BX

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Counterpart

SL 3.50/90F

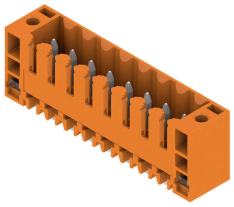


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/16/90F 3.2SN OR...	Version
Order No.	1607180000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190004446	3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 3.2 mm,
Qty.	50 ST	tinned, orange, Box

SL 3.50/180F

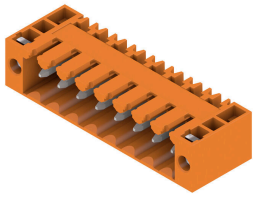


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/16/180F 3.2SN O...	Version
Order No.	1607640000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190034535	3.50 mm, Number of poles: 16, 180°, Solder pin length (l): 3.2 mm,
Qty.	50 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 3.50/16/90F 4.5 SN B...	Version
Order No.	1615660000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190058593	3.50 mm, Number of poles: 16, 90°, Solder pin length (l): 4.5 mm,
Qty.	50 ST	tinned, black, Box

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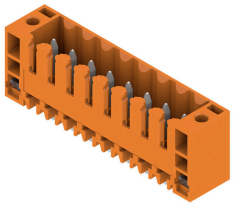
BL 3.50/16/180F SN BK BX

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Counterpart

SL 3.50/180F

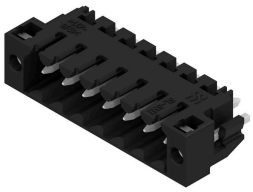


Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/16/180F 4.5 SN ...	Version
Order No.	1616270000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4008190069834	3.50 mm, Number of poles: 16, 180°, Solder pin length (l): 4.5 mm,
Qty.	50 ST	tinned, black, Box

SL-SMT 3.5/180LF Box

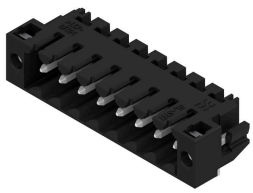


High-temperature-resistant male header, 3.50 mm pitch.
- Plugging direction parallel (90°), straight 180° or angled (135°) to PCB
- Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)
- Optimised for the SMT process
- Pin length 3.2 mm universal for all 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 3.50/16/180LF 3....	Version
Order No.	1842680000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248354047	connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length
Qty.	24 ST	(l): 3.2 mm, tinned, black, Box

SL-SMT 3.5/90LF Box



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

Downloaded from Arrow.com.

BL 3.50/16/180F SN BK BX

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

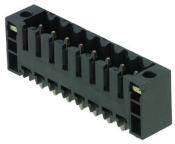
www.weidmueller.com

Counterpart

General ordering data

Type	SL-SMT 3.50/16/90LF 3.2...	Version
Order No.	1841990000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248353347	connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	24 ST	3.2 mm, tinned, black, Box

SL-SMT 3.5/180F Box

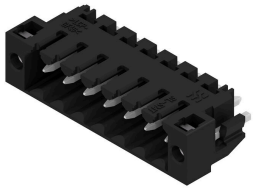


High-temperature-resistant male header, 3.50 mm pitch.
- Plugging direction parallel (90°), straight 180° or angled (135°) to PCB
- Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)
- Optimised for the SMT process
- Pin length 3.2 mm universal for all 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 3.50/16/180F 3.2...	Version
Order No.	1842910000	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248354375	connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length
Qty.	24 ST	(l): 3.2 mm, tinned, black, Box

SL-SMT 3.5/180LF Box



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

General ordering data

Type	SL-SMT 3.50/16/180LF 1....	Version
Order No.	1804840000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248268610	connection, 3.50 mm, Number of poles: 16, 180°, Solder pin length
Qty.	24 ST	(l): 1.5 mm, tinned, black, Box

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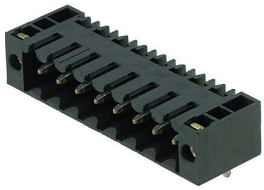
BL 3.50/16/180F SN BK BX

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

www.weidmueller.com

Counterpart

SL-SMT 3.5/90F Box

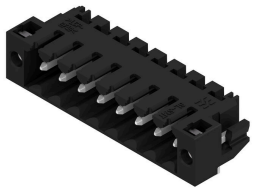


High-temperature-resistant male header, 3.50 mm pitch.
- Plugging direction parallel (90°), straight 180° or angled (135°) to PCB
- Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)
- Optimised for the SMT process
- Pin length 3.2 mm universal for all 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 3.50/16/90F 3.2S...	Version
Order No.	1842220000	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248353576	connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	24 ST	3.2 mm, tinned, black, Box

SL-SMT 3.5/90LF Box



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

General ordering data

Type	SL-SMT 3.50/16/90LF 1.5...	Version
Order No.	1805080000	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248268986	connection, 3.50 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	24 ST	1.5 mm, tinned, black, Box

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