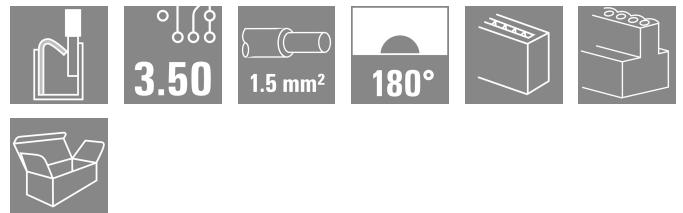


BLF 3.50/02/180QV SN BK BX**Weidmüller Interface GmbH & Co. KG**Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image

Connect efficiently - in a small space: female header with spring connection (PUSH IN) as a plug-in connection level; used together with male headers in 3.50 mm pitch.

General ordering data

Version	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 2, 180°, PUSH IN with actuator, Clamping range, max. : 1.5 mm², Box
Order No.	2537890000
Type	BLF 3.50/02/180QV SN BK BX
GTIN (EAN)	4050118549515
Qty.	132 items
Product data	IEC: 320 V / 17.5 A / 0.14 - 1.5 mm² UL: 300 V / 10 A / AWG 26 - AWG 16
Packaging	Box

BLF 3.50/02/180QV SN BK BX

Weidmüller Interface GmbH & Co. KG

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E60693

Dimensions and weights

Depth	22.7 mm	Depth (inches)	0.8937 inch
Height	10.95 mm	Height (inches)	0.4311 inch
Width	7 mm	Width (inches)	0.2756 inch
Net weight	1.93 g		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption		
REACH SVHC	No SVHC above 0.1 wt%		
Product Carbon Footprint	Cradle to gate	0,14 kg CO2 eq.	

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	2	
L1 in mm	3.50 mm	
L1 in inches	0.138 "	
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	8 mm	
Stripping length tolerance	min.	0 mm
	max.	1 mm
Screwdriver blade	0.4 x 2.5	
Screwdriver blade standard	DIN 5264-A	
Plugging cycles	25	
Plugging force/pole, max.	6 N	
Pulling force/pole, max.	6 N	

Material data

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II

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Technical data

Comparative Tracking Index (CTI)	≥ 400, ≤ 600	Moisture Level (MSL)	
UL 94 flammability rating	V-0	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.	120 °C	Temperature range, installation, min.	-30 °C
Temperature range, installation, max.	100 °C		

Conductors suitable for connection

Clamping range, min.	0.14 mm ²
Clamping range, max.	1.5 mm ²
Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 16
Solid, min. H05(07) V-U	0.14 mm ²
Solid, max. H05(07) V-U	1.5 mm ²
Flexible, min. H05(07) V-K	0.14 mm ²
Flexible, max. H05(07) V-K	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.28 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, max.	1 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²
w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²
Plug gauge in accordance with EN 60999 a x b; ø	2.4 mm x 1.5 mm

Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	0.25 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	
	Cross-section for conductor connection	Type	fine-wired	
		nominal	1 mm ²	
	wire end ferrule	Stripping length	nominal	10 mm
		Recommended wire-end ferrule	H1.0/14 GE	
	Cross-section for conductor connection	nominal	1.5 mm ²	

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.

BLF 3.50/02/180QV SN BK BX

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Technical data

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	17.5 A
Rated current, max. number of poles (Tu=20°C)	14.7 A	Rated current, min. number of poles (Tu=40°C)	17.1 A
Rated current, max. number of poles (Tu=40°C)	13.1 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	1 x 1s with 120 A

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	50 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 16
Wire cross-section, AWG, max.	AWG 26		

Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	50 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 26
Wire cross-section, AWG, max.	AWG 16	Reference to approval values	Specifications are maximum values, details - see approval certificate.

Packing

Packaging	Box	VPE length	349.00 mm
VPE width	136.00 mm	VPE height	31.00 mm

Type tests

Visual and dimensional test	Standard	IEC 60512-1-1:2002-02
	Test	dimensional inspection
	Evaluation	passed
	Standard	IEC 60512-1-2:2002-02
	Test	weight check
	Evaluation	passed
	Standard	IEC 61984:2001-10 section 6.2
	Test	visual examination
Test: Durability of markings	Evaluation	passed
	Standard	IEC 60068-2-70:1995-12 test Xb
	Test	mark of origin, type identification, pitch, type of material, date clock, approval marking UL, approval marking CSA
	Evaluation	passed
	Test	durability
Test: Misengagement (Non-interchangeability)	Evaluation	passed
	Standard	IEC 60512-13-5 / 02.06
	Test	180° turned with coding elements
	Evaluation	passed
	Test	180° turned without coding elements

Technical data

Test: Clampable cross section	Evaluation	passed	
	Test	visual examination	
	Evaluation	passed	
	Standard	IEC 60999-1:1999-11 section 9.1, IEC 60947-1:2011-03 section 8.2.4.5.1	
	Conductor type	Type of conductor and conductor cross-section	solid 0.14 mm ²
		Type of conductor and conductor cross-section	stranded 0.14 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 26/1
		Type of conductor and conductor cross-section	AWG 26/19
		Type of conductor and conductor cross-section	AWG 16/1
		Type of conductor and conductor cross-section	AWG 16/19
Test for damage to and accidental loosening of conductors	Evaluation	passed	
	Standard	IEC 60999-1:1999-11 section 9.4 bzw. section 8.10	
	Requirement	0.2 kg	
	Conductor type	Type of conductor and conductor cross-section	AWG 26/1
		Type of conductor and conductor cross-section	AWG 26/19
	Evaluation	passed	
	Requirement	0.3 kg	
	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	0.4 kg	
	Conductor type	Type of conductor and conductor cross-section	H07V-U1.5
		Type of conductor and conductor cross-section	H07V-K1.5
		Type of conductor and conductor cross-section	AWG 16/1
		Type of conductor and conductor cross-section	AWG 16/19
Pull-out test	Evaluation	passed	
	Standard	IEC 60999-1:1999-11 section 9.5	

BLF 3.50/02/180QV SN BK BX

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Technical data

Requirement	≥10 N	
Conductor type	Type of conductor and conductor cross-section	AWG 26/1
	Type of conductor and conductor cross-section	AWG 26/19
Evaluation	passed	
Requirement	≥20 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	H07V-U1.5
	Type of conductor and conductor cross-section	H07V-K1.5
	Type of conductor and conductor cross-section	AWG 16/1
	Type of conductor and conductor cross-section	AWG 16/19
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	<ul style="list-style-type: none"> • Additional variants on request • Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of poles. • 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		

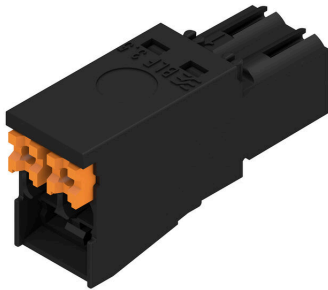
BLF 3.50/02/180QV SN BK BX

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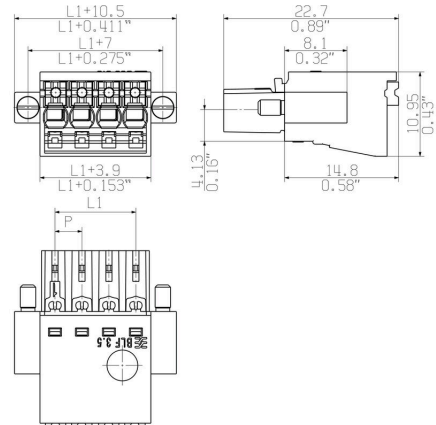
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Drawings

Product image



Dimensional drawing



Derating curve

BLF 3.50/./180 - SL-SMT 3.50/./180



Derating curve

BLF 3.50/./180 - SL-SMT 3.50/./180



Product benefits



Solid PUSH IN contact Safe and durable

BLF 3.50/02/180QV SN BK BX

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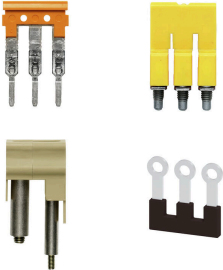
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Accessories

Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

General ordering data

Type	ZQV 1.5N/R3.5/2 GE	Version
Order No.	1754210000	Accessories, Cross-connector, 17.5 A
GTIN (EAN)	4032248027422	
Qty.	50 ST	
Type	ZQV 1.5N/R3.5/3 GE	Version
Order No.	1754220000	Accessories, Cross-connector, 17.5 A
GTIN (EAN)	4032248065608	
Qty.	50 ST	
Type	ZQV 1.5N/R3.5/4 GE	Version
Order No.	1754230000	Accessories, Cross-connector, 17.5 A
GTIN (EAN)	4032248103874	
Qty.	20 ST	

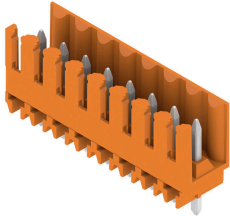
BLF 3.50/02/180QV SN BK BX

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Counterpart

SL 3.50/180

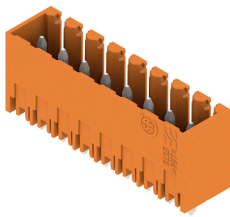


- Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
 - Housing variant: screw flange (F)
 - Packed in a cardboard box (BX)
 - Pin header can be coded

General ordering data

Type	SL 3.50/02/180 3.2SN OR...	Version
Order No.	1604770000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190054182	connection, 3.50 mm, Number of poles: 2, 180°, Solder pin length (l):
Qty.	100 ST	3.2 mm, tinned, orange, Box

SL 3.50/180G

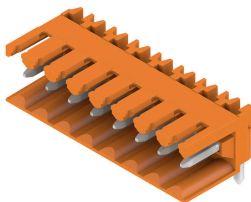


- Pin headers for wave soldering in 3.50 mm pitch
- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
 - Housing variant: screw flange (F)
 - Packed in a cardboard box (BX)
 - Pin header can be coded

General ordering data

Type	SL 3.50/02/180G 3.2SN O...	Version
Order No.	1604470000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190137526	connection, 3.50 mm, Number of poles: 2, 180°, Solder pin length (l):
Qty.	100 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 3.50/02/90 3.2SN OR ...	Version
Order No.	1597210000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190175320	connection, 3.50 mm, Number of poles: 2, 90°, Solder pin length (l):
Qty.	100 ST	3.2 mm, tinned, orange, Box

BLF 3.50/02/180QV SN BK BX

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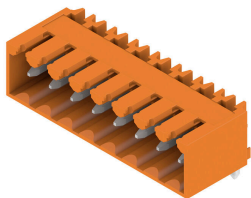
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Counterpart

SL 3.50/90G



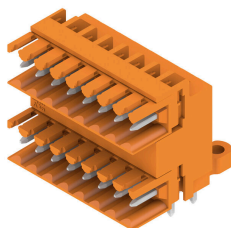
Pin headers for wave soldering in 3.50 mm pitch

- 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

Type	SL 3.50/02/90G 3.2SN BK...	Version
Order No.	1683240000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190475352	connection, 3.50 mm, Number of poles: 2, 90°, Solder pin length (l):
Qty.	100 ST	3.2 mm, tinned, black, Box
Type	SL 3.50/02/90G 3.2SN OR...	Version
Order No.	1605070000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190085100	connection, 3.50 mm, Number of poles: 2, 90°, Solder pin length (l):
Qty.	100 ST	3.2 mm, tinned, orange, Box

SLD 3.50/90

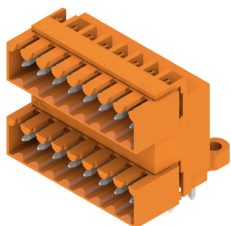


Two-tier pin header for wave soldering in 3.50 mm pitch. The connector is available in open, closed and flange versions. The male connectors provide space for labelling and can be coded. Packed in a cardboard box.

General ordering data

Type	SLD 3.50/04/90 3.2SN OR...	Version
Order No.	1633350000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190257804	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	50 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.

BLF 3.50/02/180QV SN BK BX

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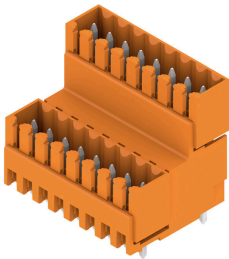
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Counterpart

General ordering data

Type	SLD 3.50/04/90G 3.2SN O...	Version
Order No.	1633580000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190258030	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	50 ST	3.2 mm, tinned, orange, Box

SLD 3.50V/180G

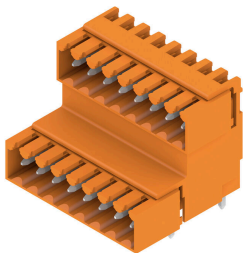


Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors provide space for labelling and can be coded.

General ordering data

Type	SLD 3.50V/04/180G 3.2SN...	Version
Order No.	1641110000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190279516	connection, 3.50 mm, Number of poles: 4, 180°, Solder pin length (l):
Qty.	50 ST	3.2 mm, tinned, orange, Box

SLD 3.50V/90G



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

General ordering data

Type	SLD 3.50V/04/90G 3.2SN ...	Version
Order No.	1642240000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190280758	connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	50 ST	3.2 mm, tinned, orange, Box

BLF 3.50/02/180QV SN BK BX

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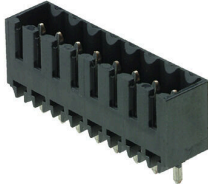
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Counterpart

SL-SMT 3.5/180G Box



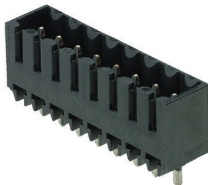
High-temperature-resistant male header, 3.50 mm pitch.

- 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 3.50/02/180G 1.5...	Version
Order No.	1752982001	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248130887	connection, 3.50 mm, Number of poles: 2, 180°, Solder pin length (l):
Qty.	100 ST	1.5 mm, tinned, black, Box
Type	SL-SMT 3.50/02/180G 3.2...	Version
Order No.	1842320000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248353668	connection, 3.50 mm, Number of poles: 2, 180°, Solder pin length (l):
Qty.	100 ST	3.2 mm, tinned, black, Box

SL-SMT 3.5/180G Tape



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

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

General ordering data

Type	SL-SMT 3.50/02/180G 1.5...	Version
Order No.	1752984002	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248193097	connection, 3.50 mm, Number of poles: 2, 180°, Solder pin length (l):
Qty.	265 ST	1.5 mm, tinned, black, Tape

BLF 3.50/02/180QV 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 3.50/02/90G 1.5S...	Version
Order No.	1761542001	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248132034	connection, 3.50 mm, Number of poles: 2, 90°, Solder pin length (l):
Qty.	100 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 3.50/02/90G 3.2A...	Version
Order No.	1507710000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4050118316483	connection, 3.50 mm, Number of poles: 2, 90°, Solder pin length (l):
Qty.	385 ST	3.2 mm, tinned, black, Tape

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

BLF 3.50/02/180QV SN BK BX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Counterpart

General ordering data

Type	SL-SMT 3.50/02/90G 3.2S...	Version
Order No.	1841630000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248352784	connection, 3.50 mm, Number of poles: 2, 90°, Solder pin length (l):
Qty.	100 ST	3.2 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 3.50/02/90G 1.5S...	Version
Order No.	1761544002	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248193325	connection, 3.50 mm, Number of poles: 2, 90°, Solder pin length (l):
Qty.	385 ST	1.5 mm, tinned, black, Tape
Type	SL-SMT 3.50/02/90G 1.5S...	Version
Order No.	2016130000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4050118400090	connection, 3.50 mm, Number of poles: 2, 90°, Solder pin length (l):
Qty.	385 ST	1.5 mm, tinned, black, Tape
Type	SL-SMT 3.50/02/90G 3.2S...	Version
Order No.	1045030000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248777655	connection, 3.50 mm, Number of poles: 2, 90°, Solder pin length (l):
Qty.	385 ST	3.2 mm, tinned, black, Tape