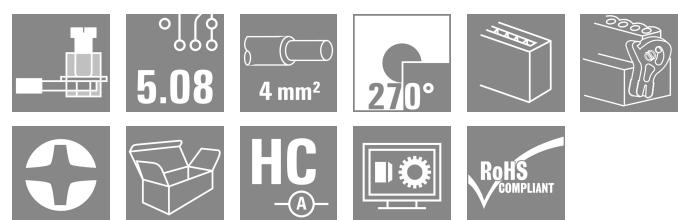


## BLZP 5.08HC/16/270LR SN OR BX

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

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## Product image



Female plugs with clamping-yoke connection for connecting wires with a right-angle (90° or 270°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. They also provide an integrated plus/minus screw, protection against faulty insertion of the wire, and they are delivered with open clamping yokes. HC = High Current.

## General ordering data

Version	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 16, 270°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box
Order No.	<a href="#">1947670000</a>
Type	BLZP 5.08HC/16/270LR SN OR BX
GTIN (EAN)	4032248624065
Qty.	18 items
Product data	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 26 - AWG 12
Packaging	Box

## BLZP 5.08HC/16/270LR SN OR BX

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## Technical data

## Approvals

## Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate No. (cURus)	E60693

## Dimensions and weights

Depth	29.5 mm	Depth (inches)	1.1614 inch
Height	17.7 mm	Height (inches)	0.6968 inch
Width	91.1 mm	Width (inches)	3.5866 inch
Net weight	30.48 g		

## Environmental Product Compliance

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

## System Parameters

Product family	OMNIMATE Signal - series BL/SL 5.08		
Type of connection	Field connection		
Wire connection method	Clamping yoke connection		
Pitch in mm (P)	5.08 mm		
Pitch in inches (P)	0.200 "		
Conductor outlet direction	270°		
Number of poles	16		
L1 in mm	76.20 mm		
L1 in inches	3.000 "		
Number of rows	1		
Pin series quantity	1		
Rated cross-section	4 mm <sup>2</sup>		
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch		
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged		
Protection degree	IP20		
Volume resistance	≤5 mΩ		
Can be coded	Yes		
Stripping length	7 mm		
Clamping screw	M 2.5		
Screwdriver blade	0.6 x 3.5, PH 1, PZ 1		
Screwdriver blade standard	DIN 5264, ISO 8764/2-PH, ISO 8764/2-PZ		
Plugging cycles	25		
Plugging force/pole, max.	10 N		
Pulling force/pole, max.	9 N		
Tightening torque	Torque type	Wire connection	
	Usage information	Tightening torque	min. 0.4 Nm
			max. 0.5 Nm

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## Technical data

## Material data

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Layer structure of plug contact	4...8 µm Sn hot-dip tinned
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	100 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	100 °C

## Conductors suitable for connection

Clamping range, min.	0.13 mm <sup>2</sup>
Clamping range, max.	4 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 30
Wire connection cross section AWG, max.	AWG 12
Solid, min. H05(07) V-U	0.2 mm <sup>2</sup>
Solid, max. H05(07) V-U	4 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.2 mm <sup>2</sup>
Flexible, max. H05(07) V-K	4 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm <sup>2</sup> min.	
w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm <sup>2</sup> max.	
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, max.	4 mm <sup>2</sup>
Plug gauge in accordance with EN 60999 a x b; ø	2.8 mm x 2.4 mm

Clampable conductor	Cross-section for conductor connection wire end ferrule	nominal	0.5 mm <sup>2</sup>
		Stripping length	nominal 6 mm
		Recommended wire-end ferrule	<a href="#">H0,5/6</a>
		Stripping length	nominal 8 mm
		Recommended wire-end ferrule	<a href="#">H0,5/12 OR</a>
	Cross-section for conductor connection wire end ferrule	nominal	1 mm <sup>2</sup>
		Stripping length	nominal 6 mm
		Recommended wire-end ferrule	<a href="#">H1,0/6</a>
	Cross-section for conductor connection wire end ferrule	nominal	1.5 mm <sup>2</sup>
		Stripping length	nominal 7 mm
		Recommended wire-end ferrule	<a href="#">H1,5/7</a>
	Cross-section for conductor connection wire end ferrule	nominal	2.5 mm <sup>2</sup>
		Stripping length	nominal 7 mm
		Recommended wire-end ferrule	<a href="#">H2,5/7</a>
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	<a href="#">H2,5/15D BL</a>

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.

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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)	23 A
Rated current, max. number of poles (Tu=20°C)	18 A	Rated current, min. number of poles (Tu=40°C)	21 A
Rated current, max. number of poles (Tu=40°C)	16 A	Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	250 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4000 V	Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV	Short-time withstand current resistance	3 x 1s with 120 A

## Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1121690
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)	20 A
Rated current (Use group D / CSA)	20 A	Wire cross-section, AWG, min.	AWG 30
Wire cross-section, AWG, max.	AWG 12	Reference to approval values	Specifications are maximum values, details - see approval certificate.

## 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 D / UL 1059)	300 V
Rated current (Use group B / UL 1059)	20 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

## Packing

Packaging	Box	VPE length	338.00 mm
VPE width	130.00 mm	VPE height	27.00 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, rated voltage, rated cross-section, type of material
	Evaluation	available
	Test	durability
	Evaluation	passed
Test: Misengagement (Non-interchangeability)	Standard	DIN EN 60512-13-5 / 11.06, IEC 60512-13-5 / 02.06
	Test	180° turned with coding elements
	Evaluation	passed
	Test	visual examination
	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 / 12.02
	Conductor type	Type of conductor solid 0.2 mm <sup>2</sup> and conductor cross-section

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## Technical data

Test for damage to and accidental loosening of conductors	Type of conductor and conductor cross-section	stranded 0.2 mm <sup>2</sup>
	Type of conductor and conductor cross-section	solid 2.5 mm <sup>2</sup>
	Type of conductor and conductor cross-section	stranded 2.5 mm <sup>2</sup>
	Type of conductor and conductor cross-section	AWG 26/1
	Type of conductor and conductor cross-section	AWG 26/19
	Evaluation	passed
	Standard	DIN EN 60999-1 section 9.4 / 12.00
	Requirement	0.2 kg
	Conductor type	Type of conductor and conductor cross-section
		AWG 26/1
Pull-out test	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
		solid 0.5 mm <sup>2</sup>
	Type of conductor and conductor cross-section	stranded 0.5 mm <sup>2</sup>
	Evaluation	passed
	Requirement	0.9 kg
	Conductor type	Type of conductor and conductor cross-section
		AWG 12/1
Pull-out test	Type of conductor and conductor cross-section	AWG 12/19
	Evaluation	passed
	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
Pull-out test	Type of conductor and conductor cross-section	H05V-K0.5
	Evaluation	passed
	Requirement	60 N
	Conductor type	Type of conductor and conductor cross-section
		H07V-U4.0
	Type of conductor and conductor cross-section	

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## Technical data

	Type of conductor and conductor cross-section	H07V-K4.0
	Type of conductor and conductor cross-section	AWG 12/1
	Type of conductor and conductor cross-section	AWG 12/19
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

- 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		

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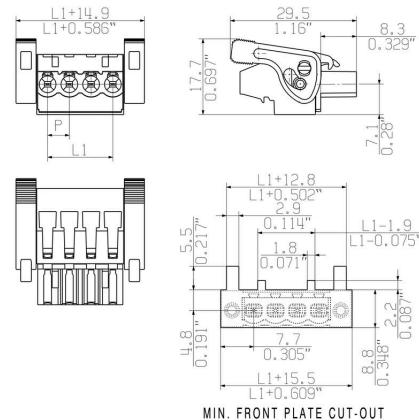
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## Drawings

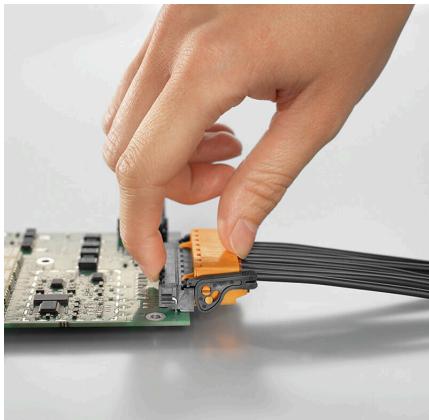
### Product image



### Dimensional drawing

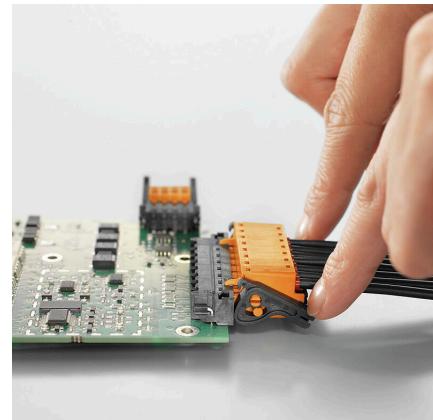


### Product benefits



Self-locking Immediately on plugging in

### Product benefits



Gentle unlocking Low mechanical stress

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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

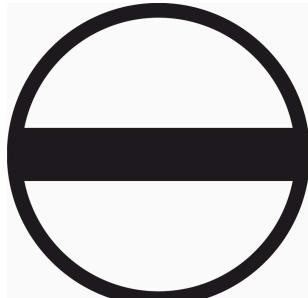
The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery.

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	BLZ/SL KO OR BX	Version
Order No.	<a href="#">1573010000</a>	PCB plug-in connector, Accessories, Coding element, orange, Number
GTIN (EAN)	4008190048396	of poles: 1
Qty.	100 ST	
Type	BLZ/SL KO BK BX	Version
Order No.	<a href="#">1545710000</a>	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4008190087142	of poles: 1
Qty.	50 ST	

## 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 0.6X3.5X100	Version
Order No.	<a href="#">2749340000</a>	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118895568	thickness (A): 0.6 mm
Qty.	1 ST	
Type	SDIS 0.6X3.5X100	Version
Order No.	<a href="#">2749810000</a>	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118897012	thickness (A): 0.6 mm
Qty.	1 ST	

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## Accessories

## Crosshead screwdriver Phillips



Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip

## General ordering data

Type	SDK PH1 X 80	Version
Order No.	<a href="#">2749410000</a>	Screwdriver, Blade width (B): 4.5 mm, 80 mm, Blade thickness (A): 1
GTIN (EAN)	4050118895636	
Qty.	1 ST	

## Crosshead screwdriver Pozidriv



Crosshead screwdriver, Pozidriv, SDK PZ DIN 5262, ISO 8764/2-PZ, output to ISO 8764/1-PZ, ChromTop tip, SoftFinish grip

## General ordering data

Type	SDK PZ1 X 80	Version
Order No.	<a href="#">2749440000</a>	Screwdriver, Blade width (B): 14.5 mm, 80 mm, Blade thickness (A): 1
GTIN (EAN)	4050118895667	
Qty.	1 ST	

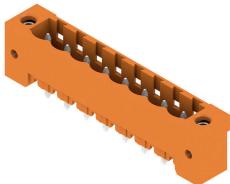
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## Counterpart

## SL 5.08HC/180F

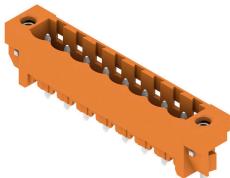


Pin headers in glass-fibre-reinforced plastic with straight wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

## General ordering data

Type	SL 5.08HC/16/180F 3.2SN...	Version
Order No.	<a href="#">1148920000</a>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4032248931903	5.08 mm, Number of poles: 16, 180°, Solder pin length (l): 3.2 mm, tinned, black, Box
Qty.	18 ST	
Type	SL 5.08HC/16/180F 3.2SN...	Version
Order No.	<a href="#">1147590000</a>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4032248931521	5.08 mm, Number of poles: 16, 180°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Qty.	18 ST	

## SL 5.08HC/180LF



Pin headers in glass-fibre-reinforced plastic with straight wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

## General ordering data

Type	SL 5.08HC/16/180LF 3.2S...	Version
Order No.	<a href="#">1149690000</a>	PCB plug-in connector, male header, Solder flange, THT solder
GTIN (EAN)	4032248932085	connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length
Qty.	18 ST	(l): 3.2 mm, tinned, black, Box
Type	SL 5.08HC/16/180LF 3.2S...	Version
Order No.	<a href="#">1148300000</a>	PCB plug-in connector, male header, Solder flange, THT solder
GTIN (EAN)	4032248931460	connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length
Qty.	18 ST	(l): 3.2 mm, tinned, orange, Box

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## Counterpart

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## SL 5.08HC/90F



Pin headers made from glass-fibre-reinforced plastic with 90° wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

## General ordering data

Type	SL 5.08HC/16/90F 3.2SN ...	Version
Order No.	<a href="#">1150240000</a>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4032248936809	5.08 mm, Number of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, black, Box
Qty.	18 ST	
Type	SL 5.08HC/16/90F 3.2SN ...	Version
Order No.	<a href="#">1149080000</a>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4032248936281	5.08 mm, Number of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Qty.	18 ST	

## SL 5.08HC/90LF



Pin headers made from glass-fibre-reinforced plastic with 90° wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

## General ordering data

Type	SL 5.08HC/16/90LF 3.2SN...	Version
Order No.	<a href="#">1150500000</a>	PCB plug-in connector, male header, Solder flange, THT solder
GTIN (EAN)	4032248105786	connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	18 ST	3.2 mm, tinned, black, Box
Type	SL 5.08HC/16/90LF 3.2SN...	Version
Order No.	<a href="#">1149840000</a>	PCB plug-in connector, male header, Solder flange, THT solder
GTIN (EAN)	4032248936441	connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	18 ST	3.2 mm, tinned, orange, Box

## BLZP 5.08HC/16/270LR SN OR BX

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## Counterpart

## SL-SMT 5.08/180F Box



High-temperature-resistant pin header, packed in box or tape. On tape, with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

## General ordering data

Type	SL-SMT 5.08HC/16/180F 3...	Version
Order No.	<a href="#">1820640000</a>	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248316601	connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length
Qty.	18 ST	(I): 3.2 mm, tinned, black, Box

## SL-SMT 5.08/180LF Box



High-temperature-resistant pin header, packed in box or tape. On tape, with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

## General ordering data

Type	SL-SMT 5.08HC/16/180LF ...	Version
Order No.	<a href="#">1776502001</a>	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248159383	connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length
Qty.	18 ST	(I): 1.5 mm, tinned, black, Box
Type	SL-SMT 5.08HC/16/180LF ...	Version
Order No.	<a href="#">1838580000</a>	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248348640	connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length
Qty.	18 ST	(I): 3.2 mm, tinned, black, Box

## SL-SMT 5.08HC/90F Box



High-temperature-resistant pin header, packed in box or tape. On tape, with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

## BLZP 5.08HC/16/270LR SN OR BX

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## Counterpart

## General ordering data

Type	SL-SMT 5.08HC/16/90F 3...	Version
Order No.	<a href="#">1837770000</a>	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248347582	connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	18 ST	3.2 mm, tinned, black, Box

## SL-SMT 5.08HC/90LF Box



High-temperature-resistant pin header, packed in box or tape. On tape, with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

## General ordering data

Type	SL-SMT 5.08HC/16/90LF 1...	Version
Order No.	<a href="#">1775372001</a>	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248157358	connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	50 ST	1.5 mm, tinned, black, Box
Type	SL-SMT 5.08HC/16/90LF 3...	Version
Order No.	<a href="#">1780570000</a>	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248165872	connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	18 ST	3.2 mm, tinned, black, Box

## SLDV-THR 5.08/180F



High-temperature resistant, double level, laterally offset, male connector with flange or solder flange. 1.5 mm solder pin is suitable for reflow soldering. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded.

## General ordering data

Type	SLDV-THR 5.08/32/180F 3...	Version
Order No.	<a href="#">1866330000</a>	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248470457	connection, 5.08 mm, Number of poles: 32, 180°, Solder pin length
Qty.	12 ST	(l): 3.2 mm, tinned, black, Box

## BLZP 5.08HC/16/270LR SN OR BX

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

[www.weidmueller.com](http://www.weidmueller.com)

## Counterpart

## SLDV-THR 5.08/180FLF



High-temperature resistant, double level, laterally offset, male connector with flange or solder flange. 1.5 mm solder pin is suitable for reflow soldering. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded.

## General ordering data

Type	SLDV-THR 5.08/32/180FLF...	Version
Order No.	<a href="#">1866320000</a>	PCB plug-in connector, male header, Flange / Solder flange, THT/THR
GTIN (EAN)	4032248470440	solder connection, 5.08 mm, Number of poles: 32, 180°, Solder pin
Qty.	12 ST	length (l): 3.2 mm, tinned, black, Box

## SLH-THR 5.08/180F SN



Extra-high temperature-resistant male header, optimised for the SMT process. Makes a compact 3-row male header when used together with the SLDV-THR.

## General ordering data

Type	SLH-THR5.08/16/180F 3.2...	Version
Order No.	<a href="#">1190600000</a>	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248973415	connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length
Qty.	10 ST	(l): 3.2 mm, tinned, black, Box