



#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

### **Product image**















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Just as reliable as the millionfold proven original and featuring innovative details:

The BLF 5.08HC PUSH IN version of the BLZP 5.08HC female connector is not only different in terms of connection system; it also has a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current.

In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

#### **General ordering data**

Version	PCB plug-in connector, female plug, 5.08 mm,
	Number of poles: 22, 180°, PUSH IN with actua-
	tor, Clamping range, max.: 3.31 mm², Box
Order No.	<u>1014340000</u>
Туре	BLF 5.08HC/22/180LR SN BK BX
GTIN (EAN)	4032248723010
Qty.	12 items
Product data	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>
	UL: 300 V / 18.5 A / AWG 26 - AWG 12
Packaging	Box



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## **Technical data**

#### **Approvals**

Approvals



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

#### **Dimensions and weights**

Depth	29.6 mm	Depth (inches)	1.1654 inch
Height	14.3 mm	Height (inches)	0.563 inch
Width	121.58 mm	Width (inches)	4.7866 inch
Net weight	41.27 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	PUSH IN with actuator	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.200 "	Conductor outlet direction	180°
Number of poles	22	L1 in mm	106.68 mm
L1 in inches	4.200 "	Number of rows	1
Pin series quantity	1	Rated cross-section	2.5 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	10 mm
Screwdriver blade	0.6 x 3.5	Screwdriver blade standard	DIN 5264
Plugging cycles	25	Plugging force/pole, max.	7 N
Pulling force/pole, max.	5.5 N		

#### **Material data**

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
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	48 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.	0.13 mm <sup>2</sup>
Clamping range, max.	3.31 mm <sup>2</sup>
Wire connection cross section AWG,	AWG 26
min.	

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## **Technical data**

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	2.5 mm <sup>2</sup>		
Flexible, min. H05(07) V-K	0.2 mm <sup>2</sup>		
Flexible, max. H05(07) V-K	2.5 mm <sup>2</sup>		
v. plastic collar ferrule, DIN 46228 pt nin.	4, 0.25 mm <sup>2</sup>		
v. plastic collar ferrule, DIN 46228 pt max.	4, 2.5 mm²		
v. wire end ferrule, DIN 46228 pt 1,	0.25 mm <sup>2</sup>		
v. wire end ferrule, DIN 46228 pt 1,	2.5 mm²		
Plug gauge in accordance with EN 60999 a x b; ø	2.8 mm x 2.0 mm		
Clampable conductor	Cross-section for conductor connection	Туре	fine-wired
•		nominal	0.5 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H0,5/16 OR
		Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,5/10
	Cross-section for conductor connection	Туре	fine-wired
	Closs-section for conductor connection	nominal	0.75 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 12 mm
	wife end leffule	Recommended wire- end ferrule	H0,75/16 W
			nominal 10 mm
		Stripping length Recommended wire-	nominal 10 mm H0,75/10
	Cuana anation for any director compaction	end ferrule	fine serine d
	Cross-section for conductor connection	Type	fine-wired 1 mm <sup>2</sup>
	wire end ferrule	nominal	nominal 12 mm
	wire end terrule	Stripping length Recommended wire-	H1,0/16D R
		end ferrule	<u>п 1,0/ 10D к</u>
		Stripping length	nominal 10 mm
		Recommended wire-	H1,0/10
	Cross-section for conductor connection	Туре	fine-wired
	5.555 55545H ISI SSHUUGIGI SSHIIGSHOII	nominal	1.5 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
	Will one for the	Recommended wire- end ferrule	H1,5/10
		Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H1,5/16 R
	Cross-section for conductor connection		fine-wired
	Gross-section for conductor connection	Type nominal	fine-wired 2.5 mm <sup>2</sup>
	wire end ferrule		
	whe end lendle	Stripping length Recommended wire-	nominal 10 mm H2,5/10
		end ferrule	<u></u>
		Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H2,5/14DS BL
Reference text	The outside diameter of the plastic collar show		: 1 (D) 1

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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)	24 A
Rated current, max. number of poles (Tu=20°C)	19 A	Rated current, min. number of poles (Tu=40°C)	21 A
Rated current, max. number of poles (Tu=40°C)	16.5 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	4 kV	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 D / CSA)	300 V
Rated current (Use group D / CSA)	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.

#### 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)	18.5 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	351.00 mm
VPE width	136.00 mm	VPE height	38.00 mm

#### Type tests

Test: Durability of markings	Standard	DIN EN 61984 section 7.3.2 / 09.02 taking
rest. Barability of markings	otaridard	pattern from DIN EN 60068-2-70 / 07.96
	Test	mark of origin, type identification, pitch, type of material, date clock
	Evaluation	available
	Test	durability
	Evaluation	passed
Test: Misengagement (Non-	Standard	DIN EN 61984 section 6.3 and 6.9.1 / 09.02,
interchangeability)		DIN EN 60512-13-5 / 11.08
	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 / 04.08
	Conductor type	Type of conductor solid 0.2 mm <sup>2</sup>
	-	and conductor cross-
		section

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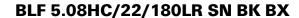
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## **Technical data**

		Type of conductor stranded 0.2 mm <sup>2</sup> and conductor cross-section
		Type of conductor solid 2.5 mm <sup>2</sup> and conductor cross-section
		Type of conductor stranded 2.5 mm <sup>2</sup> and conductor cross-section
		Type of conductor AWG 26/1 and conductor cross-section
		Type of conductor AWG 26/19 and conductor cross-section
		Type of conductor AWG 14/1 and conductor cross-section
		Type of conductor AWG 14/19 and conductor cross-section
	Evaluation	passed
Test for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00
loosening of conductors	Requirement	0.2 kg
	Conductor type	Type of conductor AWG 26/1 and conductor cross-section
		Type of conductor AWG 26/19 and conductor cross-section
	Evaluation	passed
	Requirement	0.3 kg
	Conductor type	Type of conductor H05V-U0.5 and conductor cross-section
		Type of conductor H05V-K0.5 and conductor cross-section
	Evaluation	passed
	Requirement	0.7 kg
	Conductor type	Type of conductor H07V-U2.5 and conductor cross-section
		Type of conductor H07V-K2.5 and conductor cross-section
	Evaluation	passed
	Requirement	0.9 kg
	Conductor type	Type of conductor AWG 12/1 and conductor cross-section
		Type of conductor AWG 12/19 and conductor cross-section
	Evaluation	passed
Pull-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00
	Requirement	≥10 N
	Conductor type	Type of conductor AWG 26/1 and conductor cross-section
		Type of conductor AWG 26/19 and conductor cross-section

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## **Technical data**

Evaluation	passed	
Requirement	≥20 N	
Conductor type	Type of conductor and conductor cross-section	H05V-K0.5
	Type of conductor and conductor cross-section	H05V-U0.5
Evaluation	passed	
Requirement	≥50 N	
Conductor type	Type of conductor and conductor cross-section	H07V-U2.5
	Type of conductor and conductor cross-section	H07V-K2.5
Evaluation	passed	
Requirement	≥60 N	
Conductor type	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
- Crimping shape "A" for wire end ferrules with PZ 6/5 crimping tool recommended.
- The test point can only be used as potential-pickup point.
- 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  $^{\circ}\text{C}$  and maximum humidity 70%, 36 months

#### Classifications

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



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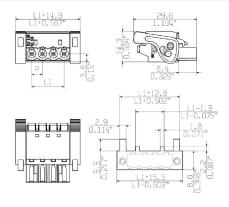
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## **Drawings**

#### **Product image**

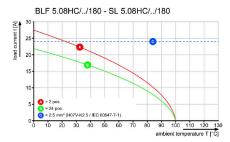


#### **Dimensional drawing**

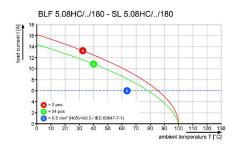


MIN. FRONT PLATE CUT-OUT

#### Graph



#### Graph





Uncompromising functionalityHigh vibration resistance



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## **Drawings**

#### **Product benefits**



Solid PUSH IN contactSafe and durable

#### **Product benefits**



Cost-effective wiringQuick and intuitive operation

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#### **Product benefits**



Wide clamping rangeTool-free wire connection



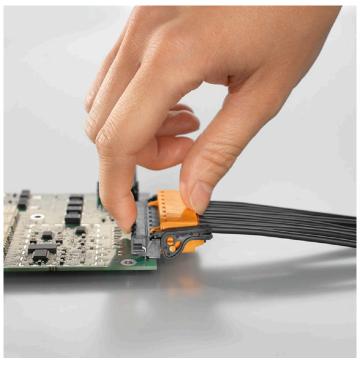
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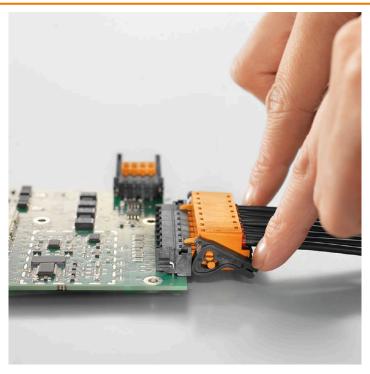
## **Drawings**

#### **Product benefits**



Self-locking Immediately on plugging in

# Uncompromising functionality High vibration resistance





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### Accessories

#### **Coding elements**



Only connects what is supposed to be connected: the right connection at the right place.

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery. Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

#### **General ordering data**

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

#### **Slotted screwdriver**



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

#### **General ordering data**

Туре	SDS 0.6X3.5X100	Version
Order No.	9008330000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056286	
Qty.	1 ST	
Туре	SDS 0.6X3.5X200	Version
Order No.	9010110000	Screwdriver, Screwdriver
GTIN (EAN)	4032248300754	
Qty.	1 ST	
Туре	SDIS 0.6X3.5X100	Version
Order No.	9008390000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056354	
Qty.	1 ST	

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## **Accessories**

#### Strain reliefs



For frequent load changes: the "trailer coupling" for plugin 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**

Туре	BLF/SLF 5.08 ZE06 BK	Version
Order No.	<u>2525850000</u>	PCB plug-in connector, Accessories, Strain relief, black, Number of
GTIN (EAN)	4050118537116	poles: 6
Qty.	50 ST	
Туре	BLF/SLF 5.08 ZE06 OR	Version
Type Order No.	BLF/SLF 5.08 ZE06 OR 2525780000	Version PCB plug-in connector, Accessories, Strain relief, orange, Number of
• •	· ·	
Order No.	<u>2525780000</u>	PCB plug-in connector, Accessories, Strain relief, orange, Number of



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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**

Туре	SL 5.08HC/22/180F 3.2SN	Version
Order No.	<u>1149120000</u>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4032248931989	5.08 mm, Number of poles: 22, 180°, Solder pin length (I): 3.2 mm,
Qty.	12 ST	tinned, black, Box
Туре	SL 5.08HC/22/180F 3.2SN	Version
Type Order No.	SL 5.08HC/22/180F 3.2SN 1147790000	Version PCB plug-in connector, male header, Flange, THT solder connection,
	, ,	

#### SL 5.08HC/180LF

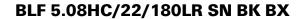


Pin headers in glass-fibre-reinforced plastic with straight wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is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

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#### **General ordering data**

Туре	SL 5.08HC/22/180LF 3.2S	Version
Order No.	<u>1149890000</u>	PCB plug-in connector, male header, Solder flange, THT solder
GTIN (EAN)	4032248933129	connection, 5.08 mm, Number of poles: 22, 180°, Solder pin length
Qty.	12 ST	(I): 3.2 mm, tinned, black, Box
Туре	SL 5.08HC/22/180LF 3.2S	Version
Type Order No.	SL 5.08HC/22/180LF 3.2S 1148420000	Version PCB plug-in connector, male header, Solder flange, THT solder
• •		





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## Counterpart

#### 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**

Туре	SL 5.08HC/22/90F 3.2SN	Version
Order No.	1150310000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4032248936908	5.08 mm, Number of poles: 22, 90°, Solder pin length (I): 3.2 mm,
Qty.	12 ST	tinned, black, Box
Туре	SL 5.08HC/22/90F 3.2SN	Version
Type Order No.	SL 5.08HC/22/90F 3.2SN 1149280000	Version PCB plug-in connector, male header, Flange, THT solder connection,
	, ,	

#### **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**

Туре	SL 5.08HC/22/90LF 3.2SN	Version
Order No.	<u>1150570000</u>	PCB plug-in connector, male header, Solder flange, THT solder
GTIN (EAN)	4032248937523	connection, 5.08 mm, Number of poles: 22, 90°, Solder pin length (I):
Qty.	12 ST	3.2 mm, tinned, black, Box
Type	SL 5.08HC/22/90LF 3.2SN	Version
Type Order No.	SL 5.08HC/22/90LF 3.2SN 1150020000	Version PCB plug-in connector, male header, Solder flange, THT solder

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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/22/180F 3... Version

Order No. <u>1837950000</u> GTIN (EAN) 4032248347766 PCB plug-in connector, male header, Flange, THT/THR solder connection, 5.08 mm, Number of poles: 22, 180°, Solder pin length

Qty. 12 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/22/180LF ... Version

Order No. 1838640000 PCB plug-in connector, male header, Solder flange, THT/THR solder

GTIN (EAN) 4032248348701 connection, 5.08 mm, Number of poles: 22, 180°, Solder pin length

Oty. 12 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.

#### **General ordering data**

 Type
 SL-SMT 5.08HC/22/90F 3....
 Version

 Order No.
 1837830000
 PCB plug-in connector, male header, Flange, THT/THR solder

 GTIN (EAN)
 4032248347643
 connection, 5.08 mm, Number of poles: 22, 90°, Solder pin length (I):

 Qty.
 12 ST
 3.2 mm, tinned, black, Box

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## Counterpart

#### 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/22/90LF 3...
 Version

 Order No.
 1780630000
 PCB plug-in connector, male header, Solder flange, THT/THR solder

 GTIN (EAN)
 4032248165933
 connection, 5.08 mm, Number of poles: 22, 90°, Solder pin length (I):

Qty. 12 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 5.08/44/180F 3... Version
Order No. 1889410000 PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN) 4032248495757 connection, 5.08 mm, Number of poles: 44, 180°, Solder pin length
Oty. 8 ST (I): 3.2 mm, tinned, black, Box

#### **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**

Creation date 26.11.2025 04:13:20 MEZ

Туре	SLDV-THR 5.08/44/180FLF	Version
Order No.	1889310000	PCB plug-in connector, male header, Flange / Solder flange, THT/THR
GTIN (EAN)	4032248495658	solder connection, 5.08 mm, Number of poles: 44, 180°, Solder pin
Qty.	8 ST	length (I): 3.2 mm, tinned, black, Box