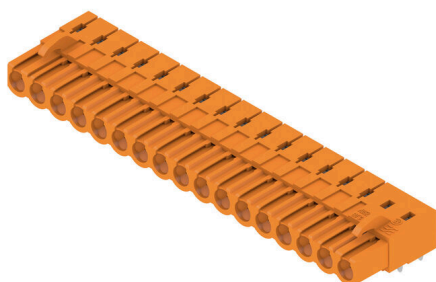


BLL 5.08/17/90 3.2 SN OR BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

General ordering data

Version	PCB plug-in connector, female header, closed side, THT solder connection, 5.08 mm, Number of poles: 17, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Order No.	1648460000
Type	BLL 5.08/17/90 3.2 SN OR BX
GTIN (EAN)	4008190292935
Qty.	18 items
Product data	IEC: 400 V / 23 A UL: 300 V / 15 A
Packaging	Box

BLL 5.08/17/90 3.2 SN OR BX

Weidmüller Interface GmbH & Co. KG
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 Germany

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693

Dimensions and weights

Net weight	17.67 g
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Environmental Product Compliance

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

System specifications

Product family	OMNIMATE Signal - series BL/SL 5.08	Type of connection	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.200 "	Outgoing elbow	90°
Number of poles	17	Number of solder pins per pole	2
Solder pin length (l)	3.2 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Solder pin dimensions	0.4 x 1.00 mm	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance (D)+ 0,1 mm		L1 in mm	81.28 mm
L1 in inches	3.200 "	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged	Protection degree	IP20
Volume resistance	≤5 mΩ	Can be coded	Yes
Plugging cycles	25	Plugging force/pole, max.	5 N
Pulling force/pole, max.	5 N		

Material data

Insulating material	PBT GF	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Insulation resistance	108 Ω
Moisture Level (MSL)		UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	tinned
Layer structure of solder connection	4...6 µm Sn hot-dip tinned	Layer structure of plug contact	4...6 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

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)	16 A	Rated current, min. number of poles (Tu=40°C)	20 A

BLL 5.08/17/90 3.2 SN OR BX

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Technical data

Rated current, max. number of poles ($T_u=40^{\circ}\text{C}$)	14 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 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 1 s 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 B / CSA)	15 A	Rated current (Use group D / CSA)	10 A
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)	15 A	Rated current (Use group D / UL 1059)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	1.00 mm
VPE width	1.00 mm	VPE height	1.00 mm

Important note

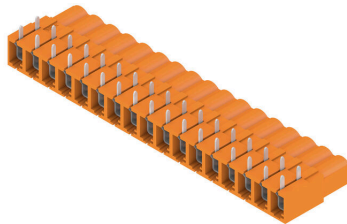
IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products 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. • 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	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

Drawings

Product image



Dimensional drawing



Example of use



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

BLL 5.08/17/90 3.2 SN OR BX

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Counterpart

SL 5.08/135



Male connectors with 135° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

General ordering data

Type	SL 5.08/17/135 3.2SN OR...	Version
Order No.	1603210000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190014315	connection, 5.08 mm, Number of poles: 17, 135°, Solder pin length
Qty.	20 ST	(l): 3.2 mm, tinned, orange, Box

SL 5.08/135B



Male connectors with 135° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

General ordering data

Type	SL 5.08/17/135B 3.2SN O...	Version
Order No.	1605680000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190061197	solder connection, 5.08 mm, Number of poles: 17, 135°, Solder pin
Qty.	20 ST	length (l): 3.2 mm, tinned, orange, Box

SL 5.08/180



Male connectors with straight outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

General ordering data

Type	SL 5.08/17/180 3.2SN OR...	Version
Order No.	1518760000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190056049	connection, 5.08 mm, Number of poles: 17, 180°, Solder pin length
Qty.	20 ST	(l): 3.2 mm, tinned, orange, Box

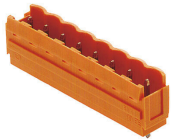
BLL 5.08/17/90 3.2 SN OR BX

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Counterpart

SL 5.08/180B



Male connectors with straight outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

General ordering data

Type	SL 5.08/17/180B 3.2SN O...	Version
Order No.	1521060000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190074159	solder connection, 5.08 mm, Number of poles: 17, 180°, Solder pin
Qty.	20 ST	length (l): 3.2 mm, tinned, orange, Box

SL 5.08/90

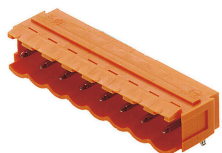


Male connectors with 90° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

General ordering data

Type	SL 5.08/17/90 3.2SN OR ...	Version
Order No.	1509560000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190091910	connection, 5.08 mm, Number of poles: 17, 90°, Solder pin length (l):
Qty.	20 ST	3.2 mm, tinned, orange, Box

SL 5.08/90B



Male connectors with 90° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

General ordering data

Type	SL 5.08/17/90B 3.2SN OR...	Version
Order No.	1511860000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190000264	solder connection, 5.08 mm, Number of poles: 17, 90°, Solder pin
Qty.	20 ST	length (l): 3.2 mm, tinned, orange, Box

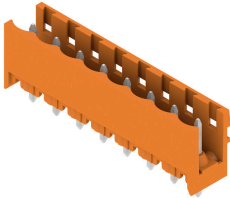
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Counterpart

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SL 5.08HC/180

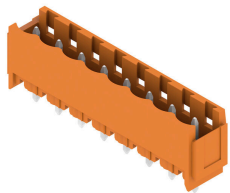


Pin headers in glass-fibre-reinforced plastic with straight wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is 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/17/180 3.2SN ...	Version
Order No.	1148430000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4032248934287	connection, 5.08 mm, Number of poles: 17, 180°, Solder pin length
Qty.	20 ST	(I): 3.2 mm, tinned, black, Box
Type	SL 5.08HC/17/180 3.2SN ...	Version
Order No.	1146620000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4032248933631	connection, 5.08 mm, Number of poles: 17, 180°, Solder pin length
Qty.	20 ST	(I): 3.2 mm, tinned, orange, Box

SL 5.08HC/180B



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/17/180B 3.2SN...	Version
Order No.	1149900000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4032248935307	solder connection, 5.08 mm, Number of poles: 17, 180°, Solder pin
Qty.	20 ST	length (I): 3.2 mm, tinned, black, Box
Type	SL 5.08HC/17/180B 3.2SN...	Version
Order No.	1147800000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4032248934980	solder connection, 5.08 mm, Number of poles: 17, 180°, Solder pin
Qty.	20 ST	length (I): 3.2 mm, tinned, orange, Box

BLL 5.08/17/90 3.2 SN OR BX

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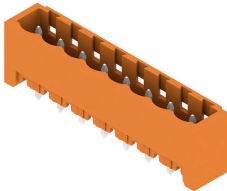
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Counterpart

SL 5.08HC/180G

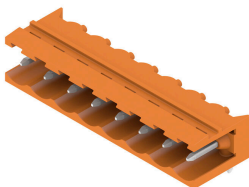


Pin headers in glass-fibre-reinforced plastic with straight wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is 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/17/180G 3.2SN...	Version
Order No.	1149130000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4032248934751	connection, 5.08 mm, Number of poles: 17, 180°, Solder pin length
Qty.	20 ST	(I): 3.2 mm, tinned, black, Box
Type	SL 5.08HC/17/180G 3.2SN...	Version
Order No.	1147070000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4032248933723	connection, 5.08 mm, Number of poles: 17, 180°, Solder pin length
Qty.	20 ST	(I): 3.2 mm, tinned, orange, Box

SL 5.08HC/90



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.

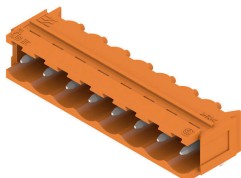
General ordering data

Type	SL 5.08HC/17/90 3.2SN B...	Version
Order No.	1155230000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4050118050660	connection, 5.08 mm, Number of poles: 17, 90°, Solder pin length (I):
Qty.	20 ST	3.2 mm, tinned, black, Box
Type	SL 5.08HC/17/90 3.2SN O...	Version
Order No.	1147050000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4050118051353	connection, 5.08 mm, Number of poles: 17, 90°, Solder pin length (I):
Qty.	20 ST	3.2 mm, tinned, orange, Box

BLL 5.08/17/90 3.2 SN OR BX

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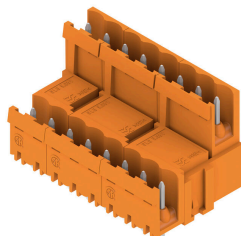
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Counterpart
SL 5.08HC/90B


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

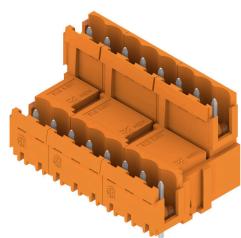
Type	SL 5.08HC/17/90B 3.2SN ...	Version
Order No.	1155740000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4050118050202	solder connection, 5.08 mm, Number of poles: 17, 90°, Solder pin
Qty.	20 ST	length (l): 3.2 mm, tinned, black, Box
Type	SL 5.08HC/17/90B 3.2SN ...	Version
Order No.	1154930000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4050118050899	solder connection, 5.08 mm, Number of poles: 17, 90°, Solder pin
Qty.	20 ST	length (l): 3.2 mm, tinned, orange, Box

SLDV 5.08/180


Pin headers with solder pin length optimised for wave flow soldering. The male connectors provide space for labelling and can be coded. HC = High Current.

General ordering data

Type	SLD 5.08V/34/180 3.2SN ...	Version
Order No.	1725800000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4032248062096	connection, 5.08 mm, Number of poles: 34, 180°, Solder pin length
Qty.	10 ST	(l): 3.2 mm, tinned, orange, Box

SLDV 5.08/180B


Pin headers with solder pin length optimised for wave flow soldering. The male connectors provide space for labelling and can be coded. HC = High Current.

BLL 5.08/17/90 3.2 SN OR BX

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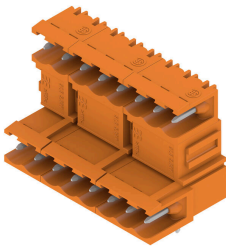
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Counterpart

General ordering data

Type	SLD 5.08V/34/180B 3.2SN...	Version
Order No.	1726890000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4032248062782	solder connection, 5.08 mm, Number of poles: 34, 180°, Solder pin
Qty.	10 ST	length (l): 3.2 mm, tinned, orange, Box

SLDV 5.08/90

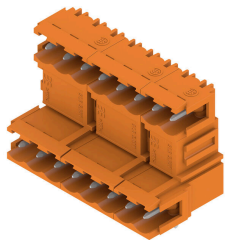


Pin headers with solder pin length optimised for wave flow soldering. The male connectors provide space for labelling and can be coded. HC = High Current.

General ordering data

Type	SLD 5.08V/34/90 3.2 SN ...	Version
Order No.	1725320000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4032248060726	connection, 5.08 mm, Number of poles: 34, 90°, Solder pin length (l):
Qty.	10 ST	3.2 mm, tinned, orange, Box

SLDV 5.08/90B



Pin headers with solder pin length optimised for wave flow soldering. The male connectors provide space for labelling and can be coded. HC = High Current.

General ordering data

Type	SLD 5.08V/34/90B 3.2 SN...	Version
Order No.	1726430000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4032248061402	solder connection, 5.08 mm, Number of poles: 34, 90°, Solder pin
Qty.	10 ST	length (l): 3.2 mm, tinned, orange, Box

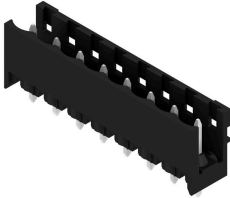
BLL 5.08/17/90 3.2 SN OR BX

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Counterpart

SL-SMT 5.08/180 Box

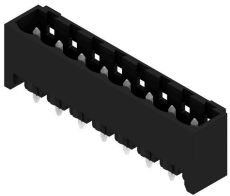


High-temperature-resistant, straight, open pin header. Packed in box or tape. On tape and with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

General ordering data

Type	SL-SMT 5.08HC/17/180 3....	Version
Order No.	1838130000	PCB plug-in connector, male header, open side, THT/THR solder
GTIN (EAN)	4032248348190	connection, 5.08 mm, Number of poles: 17, 180°, Solder pin length
Qty.	20 ST	(I): 3.2 mm, tinned, black, Box

SL-SMT 5.08/180G 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/17/180G 3...	Version
Order No.	1838360000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248348428	connection, 5.08 mm, Number of poles: 17, 180°, Solder pin length
Qty.	20 ST	(I): 3.2 mm, tinned, black, Box

SL-SMT 5.08HC/90 Box



High-temperature-resistant, 90° angled, open male 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/17/90 3.2...	Version
Order No.	1780100000	PCB plug-in connector, male header, open side, THT/THR solder
GTIN (EAN)	4032248165421	connection, 5.08 mm, Number of poles: 17, 90°, Solder pin length (I):
Qty.	20 ST	3.2 mm, tinned, black, Box

BLL 5.08/17/90 3.2 SN OR BX

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Counterpart

SL-SMT 5.08HC/90G Box

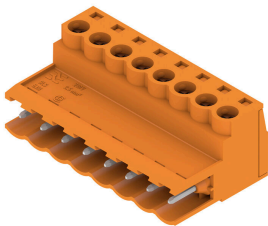


High-temperature-resistant pin header, packed in box or tape. On tape, with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

General ordering data

Type	SL-SMT 5.08HC/17/90G 3...	Version
Order No.	1780330000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248165650	connection, 5.08 mm, Number of poles: 17, 90°, Solder pin length (l):
Qty.	20 ST	3.2 mm, tinned, black, Box

SLS 5.08/180 SN

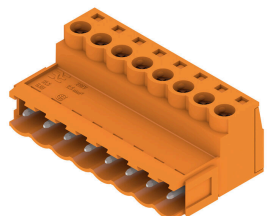


Male plugs with clamping-yoke screw wire-connect system. The male plugs provide space for labelling and can be coded.

General ordering data

Type	SLS 5.08/17/180 SN OR BX	Version
Order No.	1644840000	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 17,
GTIN (EAN)	4008190284053	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,
Qty.	18 ST	Box

SLS 5.08/180B



Male plugs with clamping-yoke screw wire-connect system. The male plugs provide space for labelling and can be coded.

General ordering data

Type	SLS 5.08/17/180B SN OR ...	Version
Order No.	1645150000	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 17,
GTIN (EAN)	4008190284367	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,
Qty.	18 ST	Box