BLL 5.08/16/180 3.2 SN OR BX

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: 16, 180°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Order No.	1648930000
Type	BLL 5.08/16/180 3.2 SN OR BX
GTIN (EAN)	4008190293413
Qty.	18 items
Product data	IEC: 400 V / 23 A UL: 300 V / 15 A
Packaging	Box

Creation date 16.03.2026 01:54:27 MEZ

BLL 5.08/16/180 3.2 SN OR BX

Technical data

Approvals

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

Dimensions and weights

Net weight	17.6 g

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	180°
Number of poles	16	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	76.20 mm
L1 in inches	3.000 "	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

Creation date 16.03.2026 01:54:27 MEZ

Data sheet

BLL 5.08/16/180 3.2 SN OR BX

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

www.weidmueller.com

Technical data

Rated current, max. number of poles (Tu=40°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 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 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	348.00 mm
VPE width	137.00 mm	VPE height	34.00 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	• 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

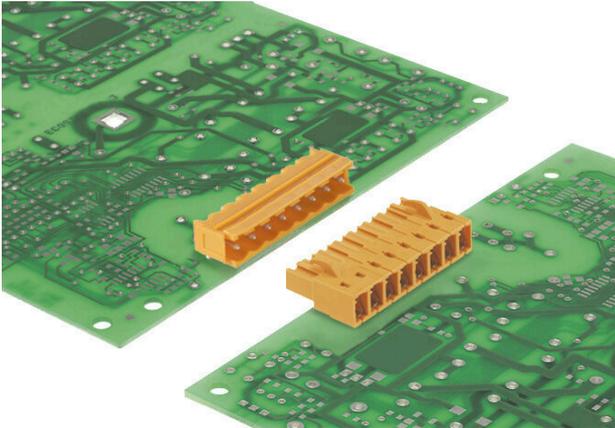|			
ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

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BLL 5.08/16/180 3.2 SN OR BX

Drawings

Product image
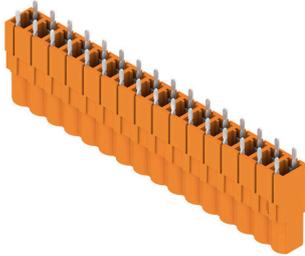
Dimensional drawing

Example of use

BLL 5.08/16/180 3.2 SN OR BX

Accessories
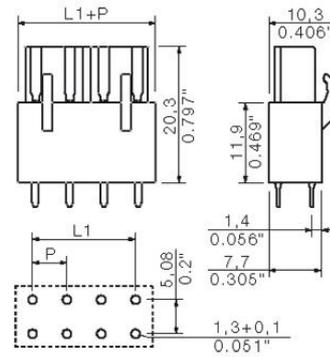
Coding elements

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

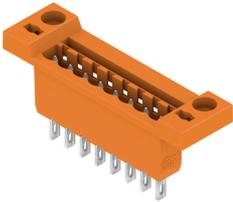| Type	BLZ/SL KO BK BX	Version
Order No.	1545710000	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4008190087142	of poles: 1
Qty.	50 ST	
Type	BLZ/SL KO OR BX	Version
Order No.	1573010000	PCB plug-in connector, Accessories, Coding element, orange, Number
GTIN (EAN)	4008190048396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

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BLL 5.08/16/180 3.2 SN OR BX

Counterpart

SLDF 5.08

Male connector for through-panel mounting with optional locking function. Internal connection as flat-blade or solder connection. These male connectors provide space for labelling and can be coded.

General ordering data

Type	SLDF 5.08 L/F 16 SN OR ...	Version
Order No.	1599270000	PCB plug-in connector, male header, 5.08 mm, Number of poles: 16,
GTIN (EAN)	4008190066826	180°, Flat-blade connection, Solder connection, Box
Qty.	18 ST	

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 5.08/16/135 3.2SN OR...	Version
Order No.	1603200000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190123635	connection, 5.08 mm, Number of poles: 16, 135°, Solder pin length
Qty.	50 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 5.08/16/135B 3.2SN O...	Version
Order No.	1605670000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190153816	solder connection, 5.08 mm, Number of poles: 16, 135°, Solder pin
Qty.	50 ST	length (l): 3.2 mm, tinned, orange, Box

Creation date 16.03.2026 01:54:27 MEZ

BLL 5.08/16/180 3.2 SN OR BX

Counterpart

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 5.08/16/180 3.2SN OR...	Version
Order No.	1518660000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190083304	connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length
Qty.	50 ST	(l): 3.2 mm, tinned, orange, Box

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

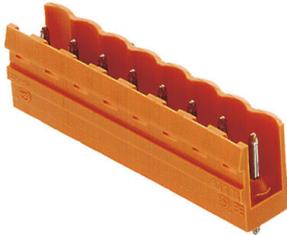| Type	SL 5.08/16/180B 3.2SN O...	Version
Order No.	1520960000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190145149	solder connection, 5.08 mm, Number of poles: 16, 180°, Solder pin
Qty.	50 ST	length (l): 3.2 mm, tinned, orange, Box

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 5.08/16/90 3.2SN OR ...	Version
Order No.	1509460000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190147464	connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	50 ST	3.2 mm, tinned, orange, Box

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BLL 5.08/16/180 3.2 SN OR BX
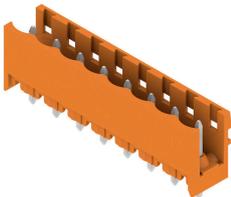
Counterpart

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 5.08/16/90B 3.2SN OR...	Version
Order No.	1511760000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190020552	solder connection, 5.08 mm, Number of poles: 16, 90°, Solder pin
Qty.	50 ST	length (l): 3.2 mm, tinned, orange, Box

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

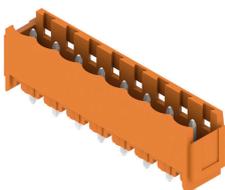| Type	SL 5.08HC/16/180 3.2SN ...	Version
Order No.	1148410000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4032248934867	connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length
Qty.	50 ST	(l): 3.2 mm, tinned, black, Box
Type	SL 5.08HC/16/180 3.2SN ...	Version
Order No.	1146610000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4032248933518	connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length
Qty.	50 ST	(l): 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.

BLL 5.08/16/180 3.2 SN OR BX

Counterpart

General ordering data

Type	SL 5.08HC/16/180B 3.2SN...	Version
Order No.	1149870000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4032248934263	solder connection, 5.08 mm, Number of poles: 16, 180°, Solder pin
Qty.	50 ST	length (I): 3.2 mm, tinned, black, Box
Type	SL 5.08HC/16/180B 3.2SN...	Version
Order No.	1147770000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4032248933747	solder connection, 5.08 mm, Number of poles: 16, 180°, Solder pin
Qty.	50 ST	length (I): 3.2 mm, tinned, orange, Box

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/16/180G 3.2SN...	Version
Order No.	1149100000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4032248935017	connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length
Qty.	50 ST	(I): 3.2 mm, tinned, black, Box
Type	SL 5.08HC/16/180G 3.2SN...	Version
Order No.	1147040000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4032248934065	connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length
Qty.	50 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.
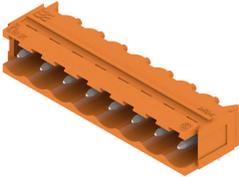
General ordering data

Type	SL 5.08HC/16/90 3.2SN B...	Version
Order No.	1155200000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4050118050677	connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (I):
Qty.	50 ST	3.2 mm, tinned, black, Box
Type	SL 5.08HC/16/90 3.2SN O...	Version
Order No.	1147030000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4050118051360	connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (I):
Qty.	50 ST	3.2 mm, tinned, orange, Box

Creation date 16.03.2026 01:54:27 MEZ

BLL 5.08/16/180 3.2 SN OR BX

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.
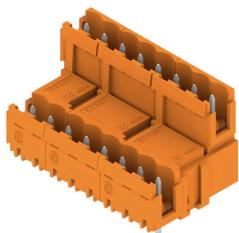
General ordering data

Type	SL 5.08HC/16/90B 3.2SN ...	Version
Order No.	1155730000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4050118050219	solder connection, 5.08 mm, Number of poles: 16, 90°, Solder pin
Qty.	50 ST	length (l): 3.2 mm, tinned, black, Box
Type	SL 5.08HC/16/90B 3.2SN ...	Version
Order No.	1154920000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4050118050905	solder connection, 5.08 mm, Number of poles: 16, 90°, Solder pin
Qty.	50 ST	length (l): 3.2 mm, tinned, orange, Box

SLDV 5.08/180
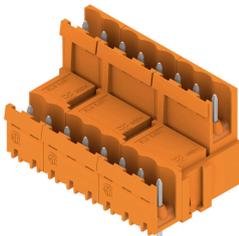
Pin headers with solder pin length optimised for wave flow soldering. The male connectors provide space for labelling and can be coded. HC = High Current.

General ordering data

Type	SLD 5.08V/32/180 3.2SN ...	Version
Order No.	1725790000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4032248062089	connection, 5.08 mm, Number of poles: 32, 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 5.08/16/180 3.2 SN OR BX

Counterpart

General ordering data

Type	SLD 5.08V/32/180B 3.2SN...	Version
Order No.	1726880000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4032248062775	solder connection, 5.08 mm, Number of poles: 32, 180°, Solder pin
Qty.	10 ST	length (l): 3.2 mm, tinned, orange, Box
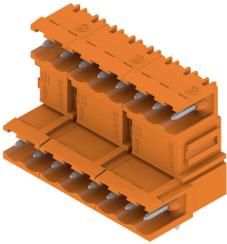
SLDV 5.08/90

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/32/90 3.2 SN ...	Version
Order No.	1725310000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4032248060719	connection, 5.08 mm, Number of poles: 32, 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

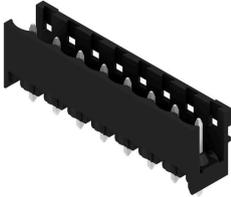| Type	SLD 5.08V/32/90B 3.2 SN...	Version
Order No.	1726420000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4032248061396	solder connection, 5.08 mm, Number of poles: 32, 90°, Solder pin
Qty.	10 ST	length (l): 3.2 mm, tinned, orange, Box

BLL 5.08/16/180 3.2 SN OR BX

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/16/180 3....	Version
Order No.	1838120000	PCB plug-in connector, male header, open side, THT/THR solder
GTIN (EAN)	4032248348183	connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length
Qty.	50 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/16/180G 3...	Version
Order No.	1838350000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248348411	connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length
Qty.	50 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/16/90 1.5...	Version
Order No.	1774902001	PCB plug-in connector, male header, open side, THT/THR solder
GTIN (EAN)	4032248155842	connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (I):
Qty.	50 ST	1.5 mm, tinned, black, Box

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BLL 5.08/16/180 3.2 SN OR BX

Counterpart

| Type	SL-SMT 5.08HC/16/90 3.2...	Version
Order No.	1780090000	PCB plug-in connector, male header, open side, THT/THR solder
GTIN (EAN)	4032248165414	connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	50 ST	3.2 mm, tinned, black, Box

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/16/90G 3....	Version
Order No.	1780320000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248165643	connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	50 ST	3.2 mm, tinned, black, Box

SLT 5.08B
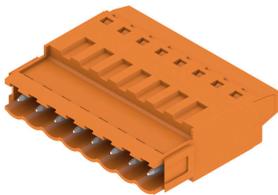
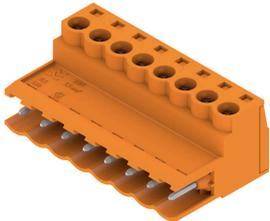Male plugs with screw TOP wire connection. The male plug provides space for labelling and can be coded.

General ordering data

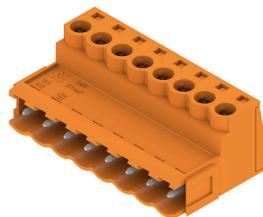| Type	SLT 5.08/16/180B SN OR ...	Version
Order No.	1611850000	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 16,
GTIN (EAN)	4008190192730	180°, TOP connection, Clamping range, max. : 2.5 mm², Box
Qty.	50 ST	

Creation date 16.03.2026 01:54:27 MEZ

BLL 5.08/16/180 3.2 SN OR BX

Counterpart

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 5.08/16/180 SN OR BX	Version
Order No.	1627230000	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 16,
GTIN (EAN)	4008190199746	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 5.08/16/180B SN OR ...	Version
Order No.	1627380000	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 16,
GTIN (EAN)	4008190199890	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,
Qty.	18 ST	Box

SLS 5.08TB KF35

Male plugs with clamping-yoke screw wire-connect system. With clip-on feet for attaching the male plugs on rail. The male plugs provide space for labelling and can be coded.

General ordering data

Type	SLS 5.08/16/180TB KF SN...	Version
Order No.	1846180000	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 16,
GTIN (EAN)	4032248362462	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,
Qty.	5 ST	Box

Creation date 16.03.2026 01:54:27 MEZ

BLL 5.08/16/180 3.2 SN OR BX

Counterpart

SLS 5.08TB RF15

Male plugs with clamping-yoke screw wire-connect system. With clip-on feet for attaching the male plugs on rail. The male plugs provide space for labelling and can be coded.

General ordering data

Type	SLS 5.08/16/180TB RF15 ...	Version
Order No.	1846100000	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 16,
GTIN (EAN)	4032248362387	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,
Qty.	5 ST	Box