

## BLAC 16R OR

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

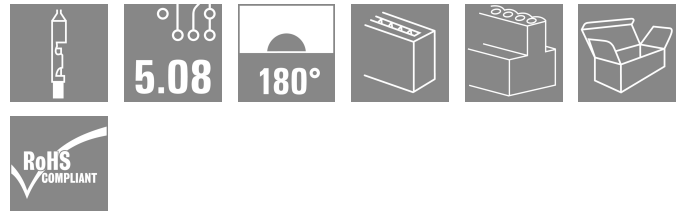
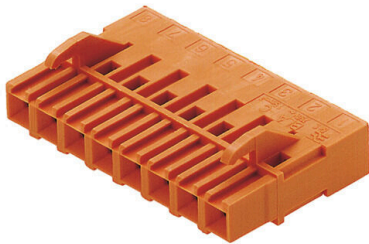
D-32758 Detmold

Germany

www.weidmueller.com

Do not use product for  
new developments

### Product image



Similar to illustration

Female header with crimp connection system enable rational prefabrication of cable looms and guarantee a distinct cost-saving. The BLAC is also available with dove-tail (B) for convenient attachment of fixing blocks. Supplied in cardboard box.

### General ordering data

Version	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 16, 180°, Crimp connection, Clamping range, max. : 2.5 mm <sup>2</sup> , Box
Order No.	<a href="#">1478560000</a>
Type	BLAC 16R OR
GTIN (EAN)	4008190141936
Qty.	50 items
Product data	IEC: 500 V / 20 A UL: 300 V / 10 A / AWG 26 - AWG 14
Packaging	Box
Delivery status	This article will no longer be available in the future.
Available until	2024-09-30T00:00:00+02:00

Creation date 25.02.2026 05:44:21 MEZ

Catalogue status / Drawings

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (UR) E60693

## Dimensions and weights

Depth	24.5 mm	Depth (inches)	0.9646 inch
Height	11.6 mm	Height (inches)	0.4567 inch
Width	81.28 mm	Width (inches)	3.2 inch
Net weight	9.21 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 BLA/SLA 5.08	Type of connection	Field connection
Wire connection method	Crimp connection	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.200 "	Conductor outlet direction	180°
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	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
Can be coded	Yes	Stripping length	5 mm
Plugging cycles	25		

## Material data

Insulating material	PBT GF	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
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.	120 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	120 °C		

## Conductors suitable for connection

Clamping range, min.	0.22 mm <sup>2</sup>	Clamping range, max.	2.5 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 14
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		

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the product and the rated voltage.

### Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	20 A
Rated current, max. number of poles (Tu=20°C)	12.5 A	Rated current, min. number of poles (Tu=40°C)	17.5 A
Rated current, max. number of poles (Tu=40°C)	11 A	Rated voltage for surge voltage class / pollution degree II/2	500 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)	12400-158
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	10 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 14
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)	10 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 14
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

### Packing

Packaging	Box	VPE length	167.00 mm
VPE width	117.00 mm	VPE height	85.00 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"> <li>• Additional variants on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Rated cross-section depends on crimp contact used.</li> <li>• P on drawing = pitch</li> <li>• 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.</li> <li>• 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</li> <li>• Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul>

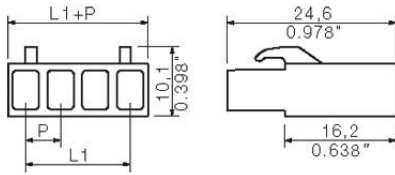
## Technical data

### 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		

**Drawings**

**Dimensional drawing**



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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	SLA KO	Version
Order No.	<a href="#">1323560000</a>	PCB plug-in connector, Accessories, Coding element, white, Number
GTIN (EAN)	4008190428389	of poles: 1
Qty.	100 ST	

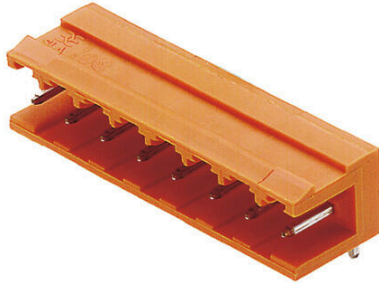
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## Counterpart

## SLA 90

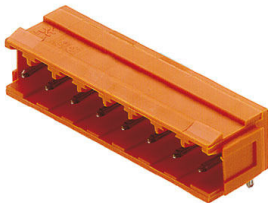


Dimensionally stable, angled, codable male connector from the Unimate range of plugs with integral aid to prevent wrong connections. Available with open or closed sides. Fixing blocks can be attached to the closed version. The solder pin length of 3.2 mm has been optimised for wave soldering. Supplied in cardboard box.

## General ordering data

Type	SLA 16/90 3.2SN OR BX	Version
Order No.	<a href="#">1239460000</a>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190063559	connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	50 ST	3.2 mm, tinned, orange, Box

## SLA 90B

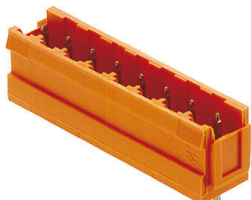


Dimensionally stable, angled, codable male connector from the Unimate range of plugs with integral aid to prevent wrong connections. Available with open or closed sides. Fixing blocks can be attached to the closed version. The solder pin length of 3.2 mm has been optimised for wave soldering. Supplied in cardboard box.

## General ordering data

Type	SLA 16/90B 3.2SN OR BX	Version
Order No.	<a href="#">1242460000</a>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190107871	solder connection, 5.08 mm, Number of poles: 16, 90°, Solder pin
Qty.	50 ST	length (l): 3.2 mm, tinned, orange, Box

## SLA 180B



Dimensionally stable, straight, codable male connector from the Unimate range of plugs with integral aid to prevent wrong connections. Available with open or closed sides. Fixing blocks can be attached to the closed version. The solder pin length of 3.2 mm has been optimised for wave soldering. Supplied in cardboard box.

## General ordering data

Type	SLA 16/180B 3.2SN OR BX	Version
Order No.	<a href="#">1243960000</a>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190148515	solder connection, 5.08 mm, Number of poles: 16, 180°, Solder pin
Qty.	50 ST	length (l): 3.2 mm, tinned, orange, Box

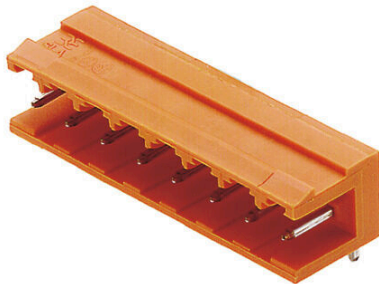
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## Counterpart

## SLA 90

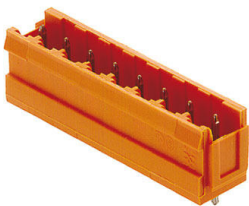


Dimensionally stable, angled, codable male connector from the Unimate range of plugs with integral aid to prevent wrong connections. Available with open or closed sides. Fixing blocks can be attached to the closed version. The solder pin length of 3.2 mm has been optimised for wave soldering. Supplied in cardboard box.

## General ordering data

Type	SLA 16/90 4.5SN OR BX	Version
Order No.	<a href="#">1348260000</a>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190135454	connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (l):
Qty.	50 ST	4.5 mm, tinned, orange, Box

## SLA 180B

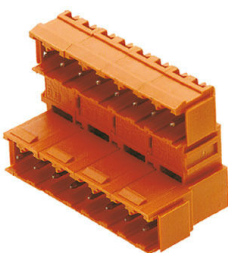


Dimensionally stable, straight, codable male connector from the Unimate range of plugs with integral aid to prevent wrong connections. Available with open or closed sides. Fixing blocks can be attached to the closed version. The solder pin length of 3.2 mm has been optimised for wave soldering. Supplied in cardboard box.

## General ordering data

Type	SLA 16/180B 4.5SN BK BX	Version
Order No.	<a href="#">1355110000</a>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4032248188055	solder connection, 5.08 mm, Number of poles: 16, 180°, Solder pin
Qty.	50 ST	length (l): 4.5 mm, tinned, black, Box
Type	SLA 16/180B 4.5SN OR BX	Version
Order No.	<a href="#">1355160000</a>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190118105	solder connection, 5.08 mm, Number of poles: 16, 180°, Solder pin
Qty.	50 ST	length (l): 4.5 mm, tinned, orange, Box

## SLAD 90B



Dimensionally stable, angled, codable 2-tier male connector from the Unimate range of plugs with integral aid to prevent wrong connections. Available with open or closed sides. Fixing blocks can be attached to the closed version. The solder pin length of 3.2 mm has been optimised for wave soldering. Supplied in cardboard box.

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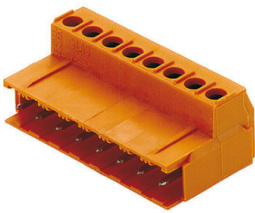
www.weidmueller.com

## Counterpart

## General ordering data

Type	SLAD 32/90B 3.2SN OR	Version
Order No.	<a href="#">1390960000</a>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190037451	solder connection, 5.08 mm, Number of poles: 32, 90°, Solder pin
Qty.	10 ST	length (l): 3.2 mm, tinned, orange, Box

## SLAS TB



Male header with screw conductor connection for flying leads. Clip-on feet for mounting on the terminal rail and fixing blocks are available for this male connector with clamping yoke connection. The SLAS provides space for labelling and can be coded. Supplied in cardboard box.

## General ordering data

Type	SLAS 16B SN OR	Version
Order No.	<a href="#">1571880000</a>	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 16,
GTIN (EAN)	4008190186494	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,
Qty.	18 ST	Box

## SLAS B with RF15



The Unimate range pin arrangement provides a unique security against wrong connections at 5.08 pitch.

- Clamping yoke, TOP and crimp connections
- Good dimensional stability and a high constant operating temperature thanks to glass fibre-reinforced PBT.

## General ordering data

Type	SLAS 16B RF15 SN OR	Version
Order No.	<a href="#">1845950000</a>	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 16,
GTIN (EAN)	4032248361977	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm <sup>2</sup> ,
Qty.	12 ST	Box

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## Counterpart

## SLA 180



Dimensionally stable, straight, codable male connector from the Unimate range of plugs with integral aid to prevent wrong connections. Available with open or closed sides. Fixing blocks can be attached to the closed version. The solder pin length of 3.2 mm has been optimised for wave soldering. Supplied in cardboard box.

## General ordering data

Type	SLA 16/180 3.2SN OR BX	Version
Order No.	<a href="#">1240960000</a>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190143008	connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length
Qty.	50 ST	(l): 3.2 mm, tinned, orange, Box

## SLAD 90

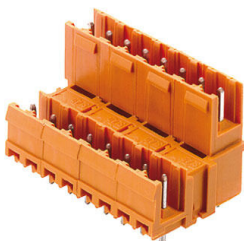


Dimensionally stable, angled, codable 2-tier male connector from the Unimate range of plugs with integral aid to prevent wrong connections. Available with open or closed sides. Fixing blocks can be attached to the closed version. The solder pin length of 3.2 mm has been optimised for wave soldering. Supplied in cardboard box.

## General ordering data

Type	SLAD 32/90 3.2SN OR	Version
Order No.	<a href="#">1373660000</a>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190153618	connection, 5.08 mm, Number of poles: 32, 90°, Solder pin length (l):
Qty.	10 ST	3.2 mm, tinned, orange, Box

## SLAD 180



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## General ordering data

Type	SLAD 32/180 3.2SN OR	Version
Order No.	<a href="#">1375760000</a>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190151447	connection, 5.08 mm, Number of poles: 32, 180°, Solder pin length
Qty.	10 ST	(l): 3.2 mm, tinned, orange, Box

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## Counterpart

Type	SLAD 32/180 4.5SN OR	Version
Order No.	<a href="#">1384660000</a>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190046743	connection, 5.08 mm, Number of poles: 32, 180°, Solder pin length
Qty.	10 ST	(l): 4.5 mm, tinned, orange, Box

## SLAD 90



Dimensionally stable, angled, codable 2-tier male connector from the Unimate range of plugs with integral aid to prevent wrong connections. Available with open or closed sides. Fixing blocks can be attached to the closed version. The solder pin length of 3.2 mm has been optimised for wave soldering. Supplied in cardboard box.

## General ordering data

Type	SLAD 32/90 4.5SN OR	Version
Order No.	<a href="#">1386760000</a>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190100735	connection, 5.08 mm, Number of poles: 32, 90°, Solder pin length (l):
Qty.	10 ST	4.5 mm, tinned, orange, Box