



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 clamping yoke connection system. The principle of the vibration-proof screw connection and the Unimate range pin arrangement provides a unique security during operation. Also available with dovetail (B) for convenient attachment of fixing blocks. The BLA has a labelling panel and can be coded. Supplied in cardboard box.

#### **General ordering data**

Version	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 12, 180°, Clamping yoke con- nection, Clamping range, max.: 1.5 mm², Box
Order No.	<u>1282760000</u>
Туре	BLA 12 SN OR
GTIN (EAN)	4008190053178
Qty.	30 items
Product data	IEC: 400 V / 17.5 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 16
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 23.11.2025 04:23:38 MEZ





#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# **Technical data**

Approvals
-----------

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

## **Dimensions and weights**

Depth	20 mm	Depth (inches)	0.7874 inch
Height	15.2 mm	Height (inches)	0.5984 inch
Width	60.96 mm	Width (inches)	2.4 inch
Net weight	21.68 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	Clamping yoke connection	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.200 "	Conductor outlet direction	180°
Number of poles	12	L1 in mm	55.88 mm
L1 in inches	2.200 "	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	finger-safe unplugged/ back-of-hand-safe plugged	Touch-safe protection acc. to DIN VDE 0470	IP 20
Protection degree	IP20	Volume resistance	5.50 mΩ
Can be coded	Yes	Stripping length	7 mm
Tightening torque, min.	0.4 Nm	Tightening torque, max.	0.5 Nm
Clamping screw	M 2.5	Screwdriver blade	0.6 x 3.5
Screwdriver blade standard	DIN 5264	Plugging cycles	25
·	DIN 3207	r ragging cycles	

### **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
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.	120 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	120 °C

### **Conductors suitable for connection**

Clamping range, min.	0.13 mm <sup>2</sup>	Clamping range, max.	1.5 mm <sup>2</sup>
Wire connection cross section AWG,	AWG 28	Wire connection cross section AWG,	AWG 16
min.		max.	
Solid, min. H05(07) V-U	0.2 mm <sup>2</sup>	Solid, max. H05(07) V-U	1.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.2 mm <sup>2</sup>	Flexible, max. H05(07) V-K	1.5 mm <sup>2</sup>

Creation date 23.11.2025 04:23:38 MEZ



#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# **Technical data**

w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm² min.		w. plastic collar ferrule, DIN 46228 pt 4, 1.5 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.	1.5 mm <sup>2</sup>	
Plug gauge in accordance with EN 60999 a x b; Ø	2.4 mm x 1.5 mm	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.	

## Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	17.5 A
Rated current, max. number of poles (Tu=20°C)	12.5 A	Rated current, min. number of poles (Tu=40°C)	16 A
Rated current, max. number of poles (Tu=40°C)	11 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 100 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 28	Wire cross-section, AWG, max.	AWG 16
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 28	Wire cross-section, AWG, max.	AWG 16
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

## **Packing**

Packaging	Box	VPE length	348.00 mm
VPE width	136.00 mm	VPE height	31.00 mm

## **Important note**

portaint noto	
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> <li>Additional variants on request</li> <li>Gold-plated contact surfaces on request</li> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>Wire end ferrule without plastic collar to DIN 46228/1</li> </ul>

Creation date 23.11.2025 04:23:38 MEZ



#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# **Technical data**

- Wire end ferrule with plastic collar to DIN 46228/4
- 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 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		

**Data sheet** 

## **BLA 12 SN OR**



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Drawings	www.woldindollol.com
	Dimensional drawing



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

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

#### **Cover hoods**

Effective protection, optimised ergonomics and closed design:

From the strain relief on the connected conductors and the visual/contact protection and the disconnection aid: the optional retrofit hoods perform mechanical, visual and haptic functions.

The two half shells clip together securely, enclose the plug completely and offer the following functions:

- Cable ties or integrated cable clips provide strain relief.
- Marked with dekafix labels or adhesive strips
- Mounting side by side without losing poles or displacing the pitch
- Compatible: suitable for plugs with or without a flange or mounting bracket
- Flexible: 1-3 cable outlets leading in different directions available depending on the size

Weidmüller hoods offer added stability, better identification, complete compatibility and versatility. The result: maximum reliability and user-friendliness in any application.

## **General ordering data**

Туре	BLA AH 12 GR.1 OR	Version
Order No.	1327560000	PCB plug-in connector, Accessories, Hood, orange, Number of poles:
GTIN (EAN)	4008190187767	12
Qty.	20 ST	
Туре	BLA AHZH	Version
Type Order No.	BLA AHZH 1340410000	Version PCB plug-in connector, Accessories, Help for pulling cover hood,

Creation date 23.11.2025 04:23:38 MEZ





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# Counterpart

#### **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**

Туре	SLA 12/90B 3.2SN OR BX	Version
Order No.	<u>1242060000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190141646	solder connection, 5.08 mm, Number of poles: 12, 90°, Solder pin
Qty.	50 ST	length (I): 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**

Туре	SLA 12/180B 3.2SN OR BX	Version
Order No.	1243560000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190015206	solder connection, 5.08 mm, Number of poles: 12, 180°, Solder pin
Qty.	50 ST	length (I): 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**

Туре	SLA 12/90B 4.5SN OR BX	Version
Order No.	1352460000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190183936	solder connection, 5.08 mm, Number of poles: 12, 90°, Solder pin
Qty.	50 ST	length (I): 4.5 mm, tinned, orange, Box

Creation date 23.11.2025 04:23:38 MEZ





#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# Counterpart

#### **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**

Туре	SLA 12/180B 4.5SN OR BX	Version
Order No.	1354760000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190107437	solder connection, 5.08 mm, Number of poles: 12, 180°, Solder pin
Qty.	50 ST	length (I): 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.

#### **General ordering data**

Туре	SLAD 24/06/90B 3.2SN OR	Version
Order No.	1389360000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190121624	solder connection, 5.08 mm, Number of poles: 24, 90°, Solder pin
Qty.	10 ST	length (I): 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**

Туре	SLAS 12B SN OR	Version
Order No.	<u>1571860000</u>	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 12,
GTIN (EAN)	4008190070496	180°, Clamping yoke connection, Clamping range, max.: 1.5 mm²,
Qty.	24 ST	Вох

Creation date 23.11.2025 04:23:38 MEZ



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## Counterpart

#### **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**

Туре	SLAS 12B RF15 SN OR	Version
Order No.	1845940000	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 12,
GTIN (EAN)	4032248361960	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm²,
Qty.	16 ST	Вох

#### **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**

Туре	SLA 12/90 3.2SN OR BX	Version
Order No.	<u>1239060000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190044862	connection, 5.08 mm, Number of poles: 12, 90°, Solder pin length (I):
Qty.	50 ST	3.2 mm, tinned, orange, Box

## **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**

Туре	SLA 12/180 3.2SN OR BX	Version
Order No.	1240560000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190044268	connection, 5.08 mm, Number of poles: 12, 180°, Solder pin length
Qty.	50 ST	(I): 3.2 mm, tinned, orange, Box

Creation date 23.11.2025 04:23:38 MEZ





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## 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**

Туре	SLA 12/90 4.5SN OR BX	Version
Order No.	1347860000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190028275	connection, 5.08 mm, Number of poles: 12, 90°, Solder pin length (I):
Qty.	50 ST	4.5 mm, tinned, orange, Box

#### **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**

Туре	SLA 12/180 4.5SN OR BX	Version
Order No.	1350160000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190076252	connection, 5.08 mm, Number of poles: 12, 180°, Solder pin length
Qty.	50 ST	(I): 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 24/06/90 3.2SN OR	Version
Order No.	1373260000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190102777	connection, 5.08 mm, Number of poles: 24, 90°, Solder pin length (I):
Qty.	10 ST	3.2 mm, tinned, orange, Box

Creation date 23.11.2025 04:23:38 MEZ





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## Counterpart

#### **SLAD 180**

Dimensionally stable, straight, 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**

Туре	SLAD 24/6/180 3.2SN OR	Version
Order No.	<u>1375360000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190074487	connection, 5.08 mm, Number of poles: 24, 180°, Solder pin length
Qty.	10 ST	(I): 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**

Туре	SLAD 24/06/90 4.5SN OR	Version
Order No.	<u>1386360000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190106652	connection, 5.08 mm, Number of poles: 24, 90°, Solder pin length (I):
Qty.	10 ST	4.5 mm, tinned, orange, Box

Creation date 23.11.2025 04:23:38 MEZ