



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: 10, 180°, Clamping yoke con- nection, Clamping range, max.: 1.5 mm², Box
Order No.	<u>1282560000</u>
Туре	BLA 10 SN OR
GTIN (EAN)	4008190087043
Qty.	36 items
Product data	IEC: 400 V / 17.5 A / 0.2 - 1.5 mm ² 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 11:13:06 MEZ





Weidmüller Interface GmbH & Co. KG

2

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Α	p	p	r	o	ν	a	I	s

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	50.8 mm	Width (inches)	2 inch
Net weight	18.5 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	10	L1 in mm	45.72 mm
L1 in inches	1.800 "	Number of rows	1
Pin series quantity	1	Rated cross-section	2.5 mm ²
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
C	DIN FOOA	Di	25
Screwdriver blade standard	DIN 5264	Plugging cycles	25

Material data

Insulating material	PBT GF	Colour	orange
Colour chart (similar)	RAL 2000	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.	120 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	120 °C

Conductors suitable for connection

Clamping range, min.	0.13 mm ²	Clamping range, max.	1.5 mm ²
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 ²	Solid, max. H05(07) V-U	1.5 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²	Flexible, max. H05(07) V-K	1.5 mm ²

Creation date 23.11.2025 11:13:06 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 mm ² min.		w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm² max.		
w. wire end ferrule, DIN 46228 pt 1, 0.2 mm ² min.		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²	
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 -		

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	349.00 mm
VPE width	136.00 mm	VPE height	30.00 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. Wire end ferrule without plastic collar to DIN 46228/1

Creation date 23.11.2025 11:13:06 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 10 SN OR



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Drawings 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.	<u>1323560000</u>	PCB plug-in connector, Accessories, Coding element, white, Number
GTIN (EAI	N) 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 10 GR.1 OR	Version
Order No.	1327360000	PCB plug-in connector, Accessories, Hood, orange, Number of poles:
GTIN (EAN)	4008190071233	10
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 11:13:06 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 10/90B 3.2SN OR BX	Version
Order No.	<u>1241860000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190089856	solder connection, 5.08 mm, Number of poles: 10, 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 10/180B 3.2SN OR BX	Version
Order No.	1243360000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190005832	solder connection, 5.08 mm, Number of poles: 10, 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 10/90B 4.5SN OR BX	Version
Order No.	<u>1352260000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190071936	solder connection, 5.08 mm, Number of poles: 10, 90°, Solder pin
Qty.	50 ST	length (I): 4.5 mm, tinned, orange, Box

Creation date 23.11.2025 11:13:06 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 10/180B 4.5SN OR BX	Version
Order No.	1354560000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190177294	solder connection, 5.08 mm, Number of poles: 10, 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 20/90B 3.2SN OR	Version
Order No.	<u>1389160000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190086824	solder connection, 5.08 mm, Number of poles: 20, 90°, Solder pin
Qty.	20 ST	length (I): 3.2 mm, tinned, orange, Box

SLAD 180B

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

Type	SLAD 20/180B 3.2SN OR	Version
Order No.	1393360000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190126018	solder connection, 5.08 mm, Number of poles: 20, 180°, Solder pin
Qty.	20 ST	length (I): 3.2 mm, tinned, orange, Box

Creation date 23.11.2025 11:13:06 MEZ





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Counterpart

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 10B SN OR	Version
Order No.	<u>1571850000</u>	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 10,
GTIN (EAN)	4008190129422	180°, Clamping yoke connection, Clamping range, max.: 1.5 mm²,
Qty.	30 ST	Вох

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 10B RF15 SN OR	Version
Order No.	<u>1845930000</u>	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 10,
GTIN (EAN)	4032248361953	180°, Clamping yoke connection, Clamping range, max.: 1.5 mm²,
Qty.	20 ST	Box

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 10/90 3.2SN OR BX	Version
Order No.	1238860000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190016777	connection, 5.08 mm, Number of poles: 10, 90°, Solder pin length (I):
Qty.	50 ST	3.2 mm, tinned, orange, Box

Creation date 23.11.2025 11:13:06 MEZ



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

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

Туре	SLA 10/180 3.2SN OR BX	Version
Order No.	1240360000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190094478	connection, 5.08 mm, Number of poles: 10, 180°, Solder pin length
Qty.	50 ST	(I): 3.2 mm, tinned, orange, Box

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 10/90 4.5SN BK BX	Version
Order No.	1347610000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190065119	connection, 5.08 mm, Number of poles: 10, 90°, Solder pin length (I):
Qty.	50 ST	4.5 mm, tinned, black, Box
Туре	SLA 10/90 4.5SN OR BX	Version
Type Order No.	SLA 10/90 4.5SN OR BX 1347660000	Version PCB plug-in connector, male header, open side, THT solder
	· ·	

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.





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Counterpart

General ordering data

Туре	SLA 10/180 4.5SN OR BX	Version
Order No.	1349960000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190010232	connection, 5.08 mm, Number of poles: 10, 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

Туре	SLAD 20/90 3.2SN OR	Version
Order No.	1373060000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190038892	connection, 5.08 mm, Number of poles: 20, 90°, Solder pin length (I):
Qty.	20 ST	3.2 mm, tinned, orange, Box

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

Type	SLAD 20/180 3.2SN OR	Version
Order No.	<u>1375160000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190093761	connection, 5.08 mm, Number of poles: 20, 180°, Solder pin length
Qty.	20 ST	(I): 3.2 mm, tinned, orange, Box
,	-	· · · · · · · · · · · · · · · · · · ·

Creation date 23.11.2025 11:13:06 MEZ





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Counterpart

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 20/90 4.5SN OR	Version
Order No.	<u>1386160000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190165864	connection, 5.08 mm, Number of poles: 20, 90°, Solder pin length (I):
Qty.	20 ST	4.5 mm, tinned, orange, Box