

SLS 5.08/12/180TB KF SN OR BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

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

Version	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 12, 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm², Box
Order No.	1846170000
Type	SLS 5.08/12/180TB KF SN OR BX
GTIN (EAN)	4032248362455
Qty.	10 items
Product data	IEC: 400 V / 21.5 A / 0.2 - 2.5 mm² UL: 300 V / 14 A / AWG 26 - AWG 12
Packaging	Box

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Technical data

Approvals

Approvals

ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (UR) E60693

Dimensions and weights

Depth	22.2 mm	Depth (inches)	0.874 inch
Height	15.3 mm	Height (inches)	0.6024 inch
Net weight	33.26 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 BL/SL 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		
Touch-safe protection acc. to DIN VDE 57 106	finger-safe plugged/ back-of-hand-safe unplugged		
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged		
Protection degree	IP20, when fully mounted		
Volume resistance	≤5 mΩ		
Stripping length	7 mm		
Screwdriver blade	0.6 x 3.5		
Screwdriver blade standard	DIN 5264		
Plugging cycles	25		
Tightening torque	Torque type	Wire connection	
	Usage information	Tightening torque	min. 0.4 Nm max. 0.5 Nm

Material data

Insulating material	PBT	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	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.	100 °C

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Conductors suitable for connection

Clamping range, min.	0.13 mm ²				
Clamping range, max.	3.31 mm ²				
Wire connection cross section AWG, min.	AWG 26				
Wire connection cross section AWG, max.	AWG 12				
Solid, min. H05(07) V-U	0.2 mm ²				
Solid, max. H05(07) V-U	2.5 mm ²				
Stranded, min. H07V-R	0.2 mm ²				
Stranded, max. H07V-R	2.5 mm ²				
Flexible, min. H05(07) V-K	0.2 mm ²				
Flexible, max. H05(07) V-K	2.5 mm ²				
w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm ² min.					
w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm ² max.					
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm ²				
w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm ²				
Clampable conductor	Cross-section for conductor connection	Type	fine-wired		
		nominal	0.5 mm ²		
		wire end ferrule	Stripping length	nominal	6 mm
	Recommended wire-end ferrule		H0.5/6		
	Cross-section for conductor connection		Type	fine-wired	
		nominal	1 mm ²		
		wire end ferrule	Stripping length	nominal	6 mm
	Recommended wire-end ferrule		H1.0/6		
	Cross-section for conductor connection		Type	fine-wired	
		nominal	1.5 mm ²		
		wire end ferrule	Stripping length	nominal	7 mm
	Recommended wire-end ferrule		H1.5/7		
	Cross-section for conductor connection		Type	fine-wired	
		nominal	2.5 mm ²		
		wire end ferrule	Stripping length	nominal	7 mm
	Recommended wire-end ferrule		H2.5/7		
	Cross-section for conductor connection		Type	fine-wired	
		nominal	0.75 mm ²		
		wire end ferrule	Stripping length	nominal	6 mm
	Recommended wire-end ferrule		H0.75/6		

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)	21.5 A
Rated current, max. number of poles (Tu=20°C)	16 A	Rated current, min. number of poles (Tu=40°C)	18 A
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

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Technical data

Rated impulse voltage for surge voltage 4 kV
 class/ pollution degree II/2

Rated impulse voltage for surge voltage 4 kV
 class/ contamination degree III/3

Rated impulse voltage for surge voltage 4 kV
 class/ pollution degree III/2

Rated data acc. to CSA

Rated voltage (Use group B / CSA) 300 V

Rated current (Use group B / CSA) 15 A

Wire cross-section, AWG, min. AWG 26

Rated voltage (Use group D / CSA) 300 V

Rated current (Use group D / CSA) 10 A

Wire cross-section, AWG, max. AWG 12

Rated data acc. to UL 1059

Institute (UR) UR

Rated voltage (Use group B / UL 1059) 300 V

Rated current (Use group B / UL 1059) 14 A

Wire cross-section, AWG, min. AWG 26

Reference to approval values
 Specifications are maximum values, details - see approval certificate.

Certificate No. (UR) E60693

Rated voltage (Use group D / UL 1059) 300 V

Rated current (Use group D / UL 1059) 10 A

Wire cross-section, AWG, max. AWG 12

Packing

Packaging Box

VPE width 138.00 mm

VPE length 227.00 mm

VPE height 51.00 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
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- 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 6.0 EC002638

ETIM 8.0 EC002638

ETIM 10.0 EC002638

ECLASS 9.1 27-44-03-09

ECLASS 11.0 27-46-02-02

ECLASS 13.0 27-46-02-02

ECLASS 15.0 27-46-02-02

ETIM 7.0 EC002638

ETIM 9.0 EC002638

ECLASS 9.0 27-44-03-09

ECLASS 10.0 27-44-03-09

ECLASS 12.0 27-46-02-02

ECLASS 14.0 27-46-02-02

Drawings

Product image

Dimensional drawing

Graph

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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	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	
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	

Blocks for PCB mounting

Minor component, major effect:
 Clip-on attachment elements increase the mechanical resilience of the whole plug connection by

- securing the male connectors to the circuit board
- providing a vibration-proof connection between the sockets and the male connectors

Clip-on or pre-assembled - always the right solution:

- Hard-wearing, precise fitting dovetail joint
- Hard-wearing metal threaded inserts
- Suitable for all outlet directions

Maximum stability, minimum effort:

- Extremely resilient for frequent fastening operations
- Complete set for easy selection

The result: soldering points, contacts and overall module are more resilient against mechanical stress such as vibrations and tensile loads.

General ordering data

Type	SLA BB4 OR	Version
Order No.	1571720000	PCB plug-in connector, Accessories, Mounting block, orange, Number
GTIN (EAN)	4008190098995	of poles: 0
Qty.	50 ST	
Type	SLA BB8 RH OR	Version
Order No.	1446060000	PCB plug-in connector, Accessories, Mounting block, orange, Number
GTIN (EAN)	4008190084585	of poles: 0
Qty.	20 ST	

Accessories

Additional accessories

No task is too small when creating the perfect solution. Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but useful details:

- Test plugs - ensure reliable pick-up from diagnostic sockets
- Cross-connectors - ensure a stable electrical distribution contact directly at the connection
- Compartment partition elements - divide a large number of male connectors into several separate socket connector channels
- Locks and clips - optional vibration-resistant clip-on connection or mounting for male and female connectors

In tandem with the manufacturing process and application - more accessories = smaller workload

General ordering data

Type	SL AT OR	Version
Order No.	1598300000	PCB plug-in connector, Accessories, Spacer, orange, Number of poles:
GTIN (EAN)	4008190189266	1
Qty.	100 ST	

Type	SL AT SW	Version
Order No.	1770240000	PCB plug-in connector, Accessories, Spacer, black, Number of poles: 1
GTIN (EAN)	4032248117710	
Qty.	100 ST	