



Klingenbergstraße 26 D-32758 Detmold Germany

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#### **Product image**















1











Female plugs with clamping-yoke connection for connecting wires with a right-angle (90° or 270°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. They also provide an integrated plus/minus screw, protection against faulty insertion of the wire, and they are delivered with open clamping yokes. HC = High Current.

#### **General ordering data**

Version	PCB plug-in connector, female plug, 5.00 mm,
	Number of poles: 5, 90°, Clamping yoke connec-
	tion, Clamping range, max.: 4 mm², Box
Order No.	1958620000
Туре	BLZP 5.00HC/05/90 SN BK BX
GTIN (EAN)	4032248637355
Qty.	72 items
Product data	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>
	UL: 300 V / 20 A / AWG 26 - AWG 12
Packaging	Вох







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# **Technical data**

#### **Approvals**

Approvals



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

#### **Dimensions and weights**

Depth	27.2 mm	Depth (inches)	1.0709 inch
Height	14.1 mm	Height (inches)	0.5551 inch
Width	25 mm	Width (inches)	0.9842 inch
Net weight	9.78 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 5.00			
Type of connection	Field connection			
Wire connection method	Clamping yoke connection			
Pitch in mm (P)	5.00 mm			
Pitch in inches (P)	0.197 "			
Conductor outlet direction	90°			
Number of poles	5			
L1 in mm	20.00 mm			
L1 in inches	0.788 "			
Number of rows	1			
Pin series quantity	1			
Rated cross-section	4 mm²			
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			
Protection degree	IP20			
Volume resistance	≤5 mΩ			
Can be coded	Yes			
Stripping length	7 mm			
Clamping screw	M 2.5			
Screwdriver blade	0.6 x 3.5, PH 1, PZ 1			
Screwdriver blade standard	DIN 5264, ISO 8764/2-PH, ISO 8764/2-PZ			
Plugging cycles	25			
Plugging force/pole, max.	10 N			
Pulling force/pole, max.	9 N			
Tightening torque	Torque type	Wire connection		
	Usage information	Tightening torque	min.	0.4 Nm
			max.	0.5 Nm





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# **Technical data**

#### **Material data**

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 200	Insulation resistance	≥ 108 Ω
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.	100 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	100 °C		

#### **Conductors suitable for connection**

Clamping range, min.	0.13 mm <sup>2</sup>		
Clamping range, max.	4 mm <sup>2</sup>		
Wire connection cross section AWG,	AWG 30		
min.			
Wire connection cross section AWG,	AWG 12		
max.			
Solid, min. H05(07) V-U	0.2 mm <sup>2</sup>		
Solid, max. H05(07) V-U	4 mm <sup>2</sup>		
Flexible, min. H05(07) V-K	0.2 mm <sup>2</sup>		
Flexible, max. H05(07) V-K	4 mm²		
w. plastic collar ferrule, DIN 46228 pt 4	I, 0.2 mm²		
min.			
w. plastic collar ferrule, DIN 46228 pt 4	l, 2.5 mm²		
max.			
w. wire end ferrule, DIN 46228 pt 1,	0.2 mm <sup>2</sup>		
min.			
w. wire end ferrule, DIN 46228 pt 1,	4 mm <sup>2</sup>		
max.			
Plug gauge in accordance with EN 60999 a x b; ø	2.8 mm x 2.4 mm		
Clampable conductor	Cross-section for conductor connection	Type	fine-wired
•			

Cross-section for conductor connection	Туре	fine-wired	
	nominal	0.5 mm <sup>2</sup>	
wire end ferrule	Stripping length	nominal	6 mm
	Recommended wire- end ferrule	H0,5/6	
Cross-section for conductor connection	Туре	fine-wired	
	nominal	1 mm²	
wire end ferrule	Stripping length	nominal	6 mm
	Recommended wire- end ferrule	H1,0/6	
Cross-section for conductor connection	Туре	fine-wired	
	nominal	1.5 mm <sup>2</sup>	
wire end ferrule	Stripping length	nominal	7 mm
	Recommended wire- end ferrule	<u>H1,5/7</u>	
Cross-section for conductor connection	Туре	fine-wired	
	nominal	2.5 mm <sup>2</sup>	
wire end ferrule	Stripping length	nominal	7 mm
	Recommended wire- end ferrule	H2,5/7	
Cross-section for conductor connection	Туре	fine-wired	
	nominal	0.75 mm <sup>2</sup>	
wire end ferrule	Stripping length	nominal	6 mm
	Recommended wire- end ferrule	H0,75/6	



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# **Technical data**

Reference text	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)	23 A
Rated current, max. number of poles (Tu=20°C)	18 A	Rated current, min. number of poles (Tu=40°C)	21 A
Rated current, max. number of poles (Tu=40°C)	16 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 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 C / CSA)	50 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	20 A
Rated current (Use group D / CSA)	20 A	Wire cross-section, AWG, min.	AWG 30
Wire cross-section, AWG, max.	AWG 12	Reference to approval values	Specifications are maximum values, details - see approval certificate.

#### Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	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)	20 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

#### **Packing**

Packaging	Box	VPE length	349.00 mm
VPE width	137.00 mm	VPE height	32.00 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><li>Additional variants on request</li><li>Gold-plated contact surfaces on request</li></ul>

- 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

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# **Technical data**

#### 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		





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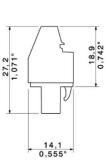
# **Drawings**

#### **Product image**



### **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

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

#### **Slotted screwdriver**



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

#### **General ordering data**

Туре	SDS 0.6X3.5X100	Version
Order No.	<u>2749340000</u>	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118895568	thickness (A): 0.6 mm
Qty.	1 ST	
Туре	SDIS 0.6X3.5X100	Version
Order No.	2749810000	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118897012	thickness (A): 0.6 mm
Qty.	1 ST	

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# Accessories

#### **Crosshead screwdriver Phillips**



Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip

#### General ordering data

Туре SDK PH1 X 80 Order No. 2749410000 GTIN (EAN)

4050118895636

Qty.

Version

Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1

#### **Crosshead screwdriver Pozidriv**



Crosshead screwdriver, Pozidriv, SDK PZ DIN 5262, ISO 8764/2-PZ, output to ISO 8764/1-PZ, ChromTop tip, SoftFinish grip

#### **General ordering data**

SDK PZ1 X 80 Туре Order No. 2749440000 GTIN (EAN) 4050118895667 Qty. 1 ST

Version

Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1

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# Counterpart

#### SL 5.00/135



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 5.00/05/135 3.2SN OR...
 Version

 Order No.
 1630280000
 PCB plug-in connector, male header, open side, THT solder

 GTIN (EAN)
 4008190203702
 connection, 5.00 mm, Number of poles: 5, 135°, Solder pin length (I):

 Qty.
 50 ST
 3.2 mm, tinned, orange, Box

#### SL 5.00/135B



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**

Туре	SL 5.00/05/135B 3.2SN O	Version
Order No.	<u>1630510000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190203931	solder connection, 5.00 mm, Number of poles: 5, 135°, Solder pin
Qty.	50 ST	length (I): 3.2 mm, tinned, orange, Box

#### SL 5.00/180



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**

Туре	SL 5.00/05/180 3.2SN OR	Version
Order No.	<u>1581350000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190125011	connection, 5.00 mm, Number of poles: 5, 180°, Solder pin length (I):
Qty.	50 ST	3.2 mm, tinned, orange, Box

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# Counterpart

#### **SL 5.00/180B**



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 5.00/05/180B 3.2SN O	Version
Order No.	<u>1581810000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190007935	solder connection, 5.00 mm, Number of poles: 5, 180°, Solder pin
Qty.	50 ST	length (I): 3.2 mm, tinned, orange, Box

#### SL 5.00/90



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**

Туре	SL 5.00/05/90 3.2SN OR	Version	
Order No.	<u>1571160000</u>	PCB plug-in connector, male header, open side, THT solder	
GTIN (EAN)	4008190128463	connection, 5.00 mm, Number of poles: 5, 90°, Solder pin length (I):	
Qty.	50 ST	3.2 mm, tinned, orange, Box	
Type	SL 5.00/05/90 4.5SN BK	Version	
Type Order No.	SL 5.00/05/90 4.5SN BK 1626020000	Version PCB plug-in connector, male header, open side, THT solder	
	, ,		

#### SL 5.00/90B



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.

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# Counterpart

**BLZP 5.00HC/05/90 SN BK BX** 

#### **General ordering data**

Туре SL 5.00/05/90B 3.2SN OR... Version Order No. 1580890000 PCB plug-in connector, male header, Dovetails for fixing blocks, THT GTIN (EAN) 4008190042578 solder connection, 5.00 mm, Number of poles: 5, 90°, Solder pin Qty. 50 ST length (I): 3.2 mm, tinned, orange, Box

#### **SLD 5.00/180G**



2-tier male header with parallel pin arrangement. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

#### **General ordering data**

SLD 5.00/10/180G 3.2SN ... Туре 1614840000 Order No. PCB plug-in connector, male header, closed side, THT solder GTIN (EAN) 4008190039202 connection, 5.00 mm, Number of poles: 10, 180°, Solder pin length Qty. 50 ST (I): 3.2 mm, tinned, orange, Box

#### **SLD 5.00/90G**



2-tier male header with parallel pin arrangement. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

#### **General ordering data**

Туре	SLD 5.00/10/90G 3.2 SN	Version
Order No.	<u>1614380000</u>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190029593	connection, 5.00 mm, Number of poles: 10, 90°, Solder pin length (I):
Qty.	50 ST	3.2 mm, tinned, orange, Box



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# Counterpart

#### **SL-SMT 5.00HC/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 5.00HC/05/180 1	Version
Order No.	<u>1796510000</u>	PCB plug-in connector, male header, open side, THT/THR solder
GTIN (EAN)	4032248237043	connection, 5.00 mm, Number of poles: 5, 180°, Solder pin length (I):
Qty.	50 ST	1.5 mm, tinned, black, Box
Туре	SL-SMT 5.00HC/05/180 3	Version
Type Order No.	SL-SMT 5.00HC/05/180 3 1840950000	Version PCB plug-in connector, male header, open side, THT/THR solder
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#### **SL-SMT 5.00HC/180 Tape**



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**

Туре	SL-SMT 5.00HC/05/180 1	Version
Order No.	<u>1797830000</u>	PCB plug-in connector, male header, open side, THT/THR solder
GTIN (EAN)	4032248239832	connection, 5.00 mm, Number of poles: 5, 180°, Solder pin length (I):
Qty.	250 ST	1.5 mm, tinned, black, Tape

#### **SL-SMT 5.00HC/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.



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# Counterpart

#### **General ordering data**

Type	SL-SMT 5.00HC/05/180G 1	Version
Order No.	<u>1796660000</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248237289	connection, 5.00 mm, Number of poles: 5, 180°, Solder pin length (I):
Qty.	50 ST	1.5 mm, tinned, black, Box
Туре	SL-SMT 5.00HC/05/180G 3	Version
Type Order No.	SL-SMT 5.00HC/05/180G 3 1841190000	Version PCB plug-in connector, male header, closed side, THT/THR solder
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#### **SL-SMT 5.00HC/180G Tape**



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**

Туре	SL-SMT 5.00HC/05/180G 1	Version
Order No.	<u>1797900000</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248239900	connection, 5.00 mm, Number of poles: 5, 180°, Solder pin length (I):
Qty.	250 ST	1.5 mm, tinned, black, Tape

#### **SL-SMT 5.00HC/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**

Туре	SL-SMT 5.00HC/05/90 1.5	Version
Order No.	<u>1796960000</u>	PCB plug-in connector, male header, open side, THT/THR solder
GTIN (EAN)	4032248237746	connection, 5.00 mm, Number of poles: 5, 90°, Solder pin length (I):
Qty.	50 ST	1.5 mm, tinned, black, Box
Туре	SL-SMT 5.00HC/05/90 3.2	Version
Type Order No.	SL-SMT 5.00HC/05/90 3.2 1839920000	Version PCB plug-in connector, male header, open side, THT/THR solder
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# Counterpart

#### SL-SMT 5.00HC/90 Tape



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 5.00HC/05/90 1.5...
 Version

 Order No.
 1797650000
 PCB plug-in connector, male header, open side, THT/THR solder

 GTIN (EAN)
 4032248239658
 connection, 5.00 mm, Number of poles: 5, 90°, Solder pin length (I):

 Qty.
 350 ST
 1.5 mm, tinned, black, Tape

#### **SL-SMT 5.00HC/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 5.00HC/05/90G 3.... Version
Order No. 1840 150000 PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN) 4032248350896 connection, 5.00 mm, Number of poles: 5, 90°, Solder pin length (I):
Oty. 50 ST 3.2 mm, tinned, black, Box

### SL-SMT 5.00HC/90G Tape



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**

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Туре	SL-SMT 5.00HC/05/90G 1	Version
Order No.	<u>1797720000</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248239726	connection, 5.00 mm, Number of poles: 5, 90°, Solder pin length (I):
Qty.	350 ST	1.5 mm, tinned, black, Tape