



Klingenbergstraße 26 D-32758 Detmold Germany

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Product image















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Female plug with clamping-yoke screw system for connecting wires with straight (180°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. The 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

PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4, 180°, Clamping yoke connec- tion, Clamping range, max. : 4 mm², Box
<u>1954470000</u>
BLZP 5.00HC/04/180 SN OR BX
4032248633180
90 items
IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 26 - AWG 12
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	20.1 mm	Depth (inches)	0.7913 inch
Height	16 mm	Height (inches)	0.6299 inch
Width	20 mm	Width (inches)	0.7874 inch
Net weight	6.66 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	180°			
Number of poles	4			
L1 in mm	15.00 mm			
L1 in inches	0.591 "			
Number of rows	1			
Pin series quantity	1			
Rated cross-section	4 mm ²			
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	orange
Colour chart (similar)	RAL 2000	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		

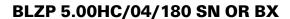
Conductors suitable for connection

Clamping range, min.	0.13 mm ²		
Clamping range, max.	4 mm ²		
Wire connection cross section AWG, min.	AWG 30		
Wire connection cross section AWG, max.	AWG 12		
Solid, min. H05(07) V-U	0.2 mm ²		
Solid, max. H05(07) V-U	4 mm ²		·
Stranded, min. H07V-R	0.2 mm ²		<u> </u>
Stranded, max. H07V-R	4 mm ²		
Flexible, min. H05(07) V-K	0.2 mm ²		
Flexible, max. H05(07) V-K	4 mm ²		
w. plastic collar ferrule, DIN 46228 pt min.	4, 0.2 mm²		
w. plastic collar ferrule, DIN 46228 pt max.	4, 2.5 mm ²		
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		
Plug gauge in accordance with EN 60999 a x b; ø	2.8 mm x 2.4 mm		
Clampable aandustar	Cross section for conductor connection	Tuna	fine wired

Clampable conducto	r

Cross-section for conductor connection	Туре	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	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 mm²	
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 ²	
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 ²	
wire end ferrule	Stripping length	nominal	6 mm







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Technical data

		end ferru	le	e- <u>H0,75/6</u>
Reference text		plastic collar should not be larg n the product and the rated volt		e pitch (P), Length of ferrule
Rated data acc. to IEC				
tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number o (Tu=20°C)		23 A
Rated current, max. number of poles (Tu=20°C)	18 A	Rated current, min. number o (Tu=40°C)	•	21 A
Rated current, max. number of poles Tu=40°C)	16 A	Rated voltage for surge voltage pollution degree II/2	ge class /	400 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage pollution degree III/3	ge class /	250 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated impulse voltage for sur class/ pollution degree III/2	ge voltage	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 /		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, mir	٦.	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)		Rated voltage (Use group D /		
Rated current (Use group B / UL 1059)		Rated current (Use group D /		
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, ma	IX.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.			
Packing				
Packaging	Roy	VPE length		3/18 00 mm
Packaging VPE width	136.00 mm	VPE length VPE height		348.00 mm 30.00 mm
Important note	130.00 11111	vre neight		30.00 11111
important note				
IPC conformity	recognized standards and no	e developed, manufactured and orms and comply with the assur n accordance with IPC-A-610 "C	ed propert	ies in the data sheet resp.
Notes	 Wire end ferrule without p Wire end ferrule with plas P on drawing = pitch Rated data refer only to th 	es on request ted cross-section & min. No. of plastic collar to DIN 46228/1	ınd creepa	

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Catalogue status / Drawings 4

disengaged when live or under load

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





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Technical data

- Long term storage of the product with average temperature of 50 $^{\circ}\text{C}$ 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		



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Drawings

Product image











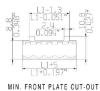
MIN. FRONT PLATE CUT-OUT

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

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

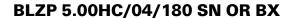


Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

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
Type Order No.	SDIS 0.6X3.5X100 2749810000	Version Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade

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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 5.00/04/135 3.2SN OR...
 Version

 Order No.
 1630270000
 PCB plug-in connector, male header, open side, THT solder

 GTIN (EAN)
 4008190203696
 connection, 5.00 mm, Number of poles: 4, 135°, Solder pin length (I):

 Oty.
 100 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

Type SL 5.00/04/135B 3.2SN O... Version
Order No. 1630500000 PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN) 4008190203924 solder connection, 5.00 mm, Number of poles: 4, 135°, Solder pin
Oty. 100 ST length (I): 3.2 mm, tinned, orange, Box

SL 5.00/180

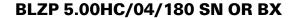


Male connectors with straight outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

General ordering data

Туре	SL 5.00/04/180 3.2SN OR	Version
Order No.	<u>1581340000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190141196	connection, 5.00 mm, Number of poles: 4, 180°, Solder pin length (I):
Qty.	100 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

Туре	SL 5.00/04/180B 3.2SN O	Version
Order No.	<u>1581800000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190070229	solder connection, 5.00 mm, Number of poles: 4, 180°, Solder pin
Qty.	100 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

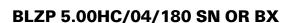
Type	SL 5.00/04/90 3.2SN OR	Version
Order No.	<u>1571150000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190107314	connection, 5.00 mm, Number of poles: 4, 90°, Solder pin length (I):
Qty.	100 ST	3.2 mm, tinned, orange, Box
Туре	SL 5.00/04/90 4.5SN BK	Version
Type Order No.	SL 5.00/04/90 4.5SN BK 1626010000	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

General ordering data

Type SL 5.00/04/90B 3.2SN OR... Version

Order No. 1580880000 PCB plug-in connector, male header, Dovetails for fixing blocks, THT

GTIN (EAN) 4008190044060 solder connection, 5.00 mm, Number of poles: 4, 90°, Solder pin

Oty. 100 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

 Type
 SLD 5.00/08/180G 3.2SN ...
 Version

 Order No.
 1614830000
 PCB plug-in connector, male header, closed side, THT solder

 GTIN (EAN)
 4008190039172
 connection, 5.00 mm, Number of poles: 8, 180°, Solder pin length (I):

 Qty.
 50 ST
 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 5.00/08/90G 3.2 SN	Version
Order No.	<u>1614370000</u>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4008190029524	connection, 5.00 mm, Number of poles: 8, 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/04/180 1	Version
Order No.	<u>1796500000</u>	PCB plug-in connector, male header, open side, THT/THR solder
GTIN (EAN)	4032248237036	connection, 5.00 mm, Number of poles: 4, 180°, Solder pin length (I):
Qty.	100 ST	1.5 mm, tinned, black, Box
Туре	SL-SMT 5.00HC/04/180 3	Version
Type Order No.	SL-SMT 5.00HC/04/180 3 1840940000	Version PCB plug-in connector, male header, open side, THT/THR solder
• •	, ,	

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/04/180 1	Version
Order No.	<u>1797820000</u>	PCB plug-in connector, male header, open side, THT/THR solder
GTIN (EAN)	4032248239825	connection, 5.00 mm, Number of poles: 4, 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

Туре	SL-SMT 5.00HC/04/180G 3	Version
Order No.	<u>1841180000</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248352074	connection, 5.00 mm, Number of poles: 4, 180°, Solder pin length (I):
Qty.	100 ST	3.2 mm, tinned, black, Box

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/04/180G 1	Version
Order No.	<u>1797890000</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248239894	connection, 5.00 mm, Number of poles: 4, 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/04/90 1.5	Version
Order No.	<u>1796950000</u>	PCB plug-in connector, male header, open side, THT/THR solder
GTIN (EAN)	4032248237739	connection, 5.00 mm, Number of poles: 4, 90°, Solder pin length (I):
Qty.	100 ST	1.5 mm, tinned, black, Box
Туре	SL-SMT 5.00HC/04/90 3.2	Version
Order No.	1839910000	PCB plug-in connector, male header, open side, THT/THR solder
GTIN (EAN)	4032248350551	connection, 5.00 mm, Number of poles: 4, 90°, Solder pin length (I):
GIII (LAIV)	4032246330331	connection, 5.00 mm, Number of poles. 4, 90 , Solder pin length (i).

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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/04/90 1.5...
 Version

 Order No.
 1797640000
 PCB plug-in connector, male header, open side, THT/THR solder

 GTIN (EAN)
 4032248239641
 connection, 5.00 mm, Number of poles: 4, 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/04/90G 3.... Version
Order No. 1840 140000 PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN) 4032248350889 connection, 5.00 mm, Number of poles: 4, 90°, Solder pin length (I):
Oty. 100 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/04/90G 1	Version
Order No.	<u>1797710000</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248239719	connection, 5.00 mm, Number of poles: 4, 90°, Solder pin length (I):
Qty.	350 ST	1.5 mm, tinned, black, Tape



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Counterpart

SLDV-THR 5.00/180G



High-temperature resistant, double level, laterally offset, closed ended male header, with solder flange option.

1.5 mm solder pin suitable for reflow soldering. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded.

General ordering data

Туре	SLDV-THR 5.00/08/180G 1	Version
Order No.	<u>1895000000</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248509713	connection, 5.00 mm, Number of poles: 8, 180°, Solder pin length (I):
Qty.	50 ST	1.5 mm, tinned, black, Box
Туре	SLDV-THR 5.00/08/180G 3	Version
Type Order No.	SLDV-THR 5.00/08/180G 3 1862370000	Version PCB plug-in connector, male header, closed side, THT/THR solder
	, ,	