



Klingenbergstraße 26 D-32758 Detmold Germany

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Product image















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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, 5.08 mm, Number of poles: 18, 90°, Clamping yoke connec- tion, Clamping range, max. : 4 mm², Box
Order No.	1949960000
Туре	BLZP 5.08HC/18/90F SN OR BX
GTIN (EAN)	4032248627899
Qty.	18 items
Product data	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 26 - AWG 12
Packaging	Вох



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Technical data

Approvals

Approvals	70 <u></u> 21	
Approvais	⊕ '47 ."	KEMA

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

Dimensions and weights

Depth	27.1 mm	Depth (inches)	1.0669 inch
Height	14.1 mm	Height (inches)	0.5551 inch
Width	101.24 mm	Width (inches)	3.9858 inch
Net weight	34.45 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	90°			
Number of poles	18			
L1 in mm	86.36 mm			
L1 in inches	3.400 "			
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
	Torque type	Screw flange		
	Usage information	Tightening torque	min.	0.2 Nm
			max.	0.25 Nm





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M	ate	rial	l ds	ıta

Insulating material	PBT	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.	100 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	100 °C

Conductors suitable for conn	ection		
Clamping range, min.	0.13 mm ²		
Clamping range, max.	4 mm ²		
	AWG 30		
Wire connection cross section AWG, min.	AVVG 30		
Wire connection cross section AWG.	AWG 12		
max.	AVVG 12		
Solid, min. H05(07) V-U	0.2 mm ²		
Solid, max. H05(07) V-U	4 mm ²		
Flexible, min. H05(07) V-K	0.2 mm ²		
lexible, max. H05(07) V-K	4 mm²		
v. plastic collar ferrule, DIN 46228 pt nin.	4, 0.2 mm ²		
v. plastic collar ferrule, DIN 46228 pt nax.	4, 2.5 mm²		
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm ²		
w. wire end ferrule, DIN 46228 pt 1, max.	4 mm ²		
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	nominal	0.5 mm ²
	wire end ferrule	Stripping length	nominal 6 mm
		Recommended wire- end ferrule	H0,5/6
		Stripping length	nominal 8 mm
		Recommended wire- end ferrule	H0,5/12 OR
	Cross-section for conductor connection	nominal	1 mm ²
	wire end ferrule	Stripping length	nominal 6 mm
		Recommended wire- end ferrule	H1,0/6
	Cross-section for conductor connection	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	nominal	2.5 mm ²
	wire end ferrule	Stripping length	nominal 7 mm
		Recommended wire- end ferrule	H2,5/7
		Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H2,5/15D BL
Reference text	The outside diameter of the plastic collar shows is to be chosen depending on the product and		itch (P), Length of ferr

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Technical data

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	347.00 mm
VPE width	135.00 mm	VPE height	32.00 mm

Type tests

Test: Durability of markings	Standard	DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96
	Test	mark of origin, rated voltage, rated cross-section, type of material
	Evaluation	available
	Test	durability
	Evaluation	passed
Test: Misengagement (Non- interchangeability)	Standard	DIN EN 60512-13-5 / 11.06, IEC 60512-13-5 / 02.06
	Test	180° turned with coding elements
	Evaluation	passed
	Test	visual examination
	Evaluation	passed
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.02
	Conductor type	Type of conductor solid 0.2 mm ² and conductor cross-section

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Technical data

		Type of conductor stranded 0.2 mm and conductor cross-section
		Type of conductor solid 2.5 mm ² and conductor cross-section
		Type of conductor stranded 2.5 mm and conductor cross-section
		Type of conductor AWG 26/1 and conductor cross-section
		Type of conductor AWG 26/19 and conductor cross-section
	Evaluation	passed
est for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00
osening of conductors	Requirement	0.2 kg
Ü	Conductor type	Type of conductor AWG 26/1 and conductor cross-section
		Type of conductor AWG 26/19 and conductor cross-section
	Evaluation	passed
	Requirement	0.3 kg
	Conductor type	Type of conductor solid 0.5 mm ² and conductor cross-section
		Type of conductor stranded 0.5 mm and conductor cross-section
	Evaluation	passed
	Requirement	0.9 kg
	Conductor type	Type of conductor AWG 12/1 and conductor cross-section
		Type of conductor AWG 12/19 and conductor cross-section
	Evaluation	passed
ull-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00
	Requirement Conductor type	≥10 N Type of conductor AWG 26/1 and conductor cross- section
		Type of conductor AWG 26/19 and conductor cross-section
	Evaluation	passed
	Requirement	≥20 N
	Conductor type	Type of conductor H05V-U0.5 and conductor cross-section
		Type of conductor H05V-K0.5 and conductor cross-section
	Evaluation	passed
	Requirement	≥60 N
	Conductor type	Type of conductor H07V-U4.0 and conductor cross-section





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Technical data

	Type of conductor and conductor cross-section	H07V-K4.0
	Type of conductor and conductor cross-section	AWG 12/1
	Type of conductor and conductor cross-section	AWG 12/19
Evaluation	passed	

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
- 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
- \bullet 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		



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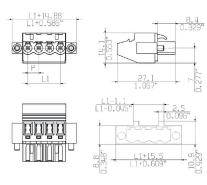
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Drawings

Product image



Dimensional drawing



MIN. FRONT PLATE CUT-OUT



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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 5.08HC/180F



Pin headers in glass-fibre-reinforced plastic with straight wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

General ordering data

Туре	SL 5.08HC/18/180F 3.2SN	Version
Order No.	<u>1148990000</u>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4032248932382	5.08 mm, Number of poles: 18, 180°, Solder pin length (I): 3.2 mm,
Qty.	18 ST	tinned, black, Box
Туре	SL 5.08HC/18/180F 3.2SN	Version
Type Order No.	SL 5.08HC/18/180F 3.2SN 1147650000	Version PCB plug-in connector, male header, Flange, THT solder connection,
	, ,	

SL 5.08HC/180LF



Pin headers in glass-fibre-reinforced plastic with straight wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

General ordering data

Туре	SL 5.08HC/18/180LF 3.2S	Version
Order No.	1149750000	PCB plug-in connector, male header, Solder flange, THT solder
GTIN (EAN)	4032248932504	connection, 5.08 mm, Number of poles: 18, 180°, Solder pin length
Qty.	18 ST	(I): 3.2 mm, tinned, black, Box
Туре	SL 5.08HC/18/180LF 3.2S	Version
Type Order No.	SL 5.08HC/18/180LF 3.2S 1148340000	Version PCB plug-in connector, male header, Solder flange, THT solder

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Counterpart

SL 5.08HC/90F



Pin headers made from glass-fibre-reinforced plastic with 90° wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

General ordering data

Туре	SL 5.08HC/18/90F 3.2SN	Version
Order No.	<u>1150270000</u>	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4032248937189	5.08 mm, Number of poles: 18, 90°, Solder pin length (I): 3.2 mm,
Qty.	18 ST	tinned, black, Box
Туре	SL 5.08HC/18/90F 3.2SN	Version
Type Order No.	SL 5.08HC/18/90F 3.2SN 1149140000	Version PCB plug-in connector, male header, Flange, THT solder connection,
	, ,	

SL 5.08HC/90LF



Pin headers made from glass-fibre-reinforced plastic with 90° wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

General ordering data

Туре	SL 5.08HC/18/90LF 3.2SN	Version
Order No.	1150520000	PCB plug-in connector, male header, Solder flange, THT solder
GTIN (EAN)	4032248937462	connection, 5.08 mm, Number of poles: 18, 90°, Solder pin length (I):
Qty.	18 ST	3.2 mm, tinned, black, Box
Туре	SL 5.08HC/18/90LF 3.2SN	Version
Type Order No.	SL 5.08HC/18/90LF 3.2SN 1149910000	Version PCB plug-in connector, male header, Solder flange, THT solder

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Counterpart

SL-SMT 5.08/180F 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

Туре	SL-SMT 5.08HC/18/180F 3	Version	
Order No.	<u>1820650000</u>	PCB plug-in connector, male header, Flange, THT/THR solder	
GTIN (EAN)	4032248316816	connection, 5.08 mm, Number of poles: 18, 180°, Solder pin length	
Qty.	18 ST	(I): 3.2 mm, tinned, black, Box	

SL-SMT 5.08/180LF 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

Туре	SL-SMT 5.08HC/18/180LF	Version
Order No.	<u>1776522001</u>	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248159406	connection, 5.08 mm, Number of poles: 18, 180°, Solder pin length
Qty.	18 ST	(I): 1.5 mm, tinned, black, Box
Type	SL-SMT 5.08HC/18/180LF	Version
Type Order No.	SL-SMT 5.08HC/18/180LF 1838600000	Version PCB plug-in connector, male header, Solder flange, THT/THR solder
	, ,	

SL-SMT 5.08HC/90F 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 5.08HC/18/90F 3.... Version

Order No. 1837790000 PCB plug-in connector, male header, Flange, THT/THR solder

GTIN (EAN) 4032248347605 connection, 5.08 mm, Number of poles: 18, 90°, Solder pin length (I):

Oty. 18 ST 3.2 mm, tinned, black, Box

SL-SMT 5.08HC/90LF 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 5.08HC/18/90LF 3... Version
Order No. 1780590000 PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN) 4032248165896 connection, 5.08 mm, Number of poles: 18, 90°, Solder pin length (I):
0ty. 18 ST 3.2 mm, tinned, black, Box

SLDV-THR 5.08/180F



High-temperature resistant, double level, laterally offset, male connector with flange or solder flange. 1.5 mm solder pin is 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 5.08/36/180F 3	Version
Order No.	1889370000	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248495719	connection, 5.08 mm, Number of poles: 36, 180°, Solder pin length
Qty.	8 ST	(I): 3.2 mm, tinned, black, Box



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Counterpart

SLDV-THR 5.08/180FLF



High-temperature resistant, double level, laterally offset, male connector with flange or solder flange. 1.5 mm solder pin is 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

General ordering data				
Туре	SLDV-THR 5.08/36/180FLF	Version		
Order No.	<u>1889270000</u>	PCB plug-in connector, male header, Flange / Solder flange, THT/THR		
GTIN (EAN)	4032248495610	solder connection, 5.08 mm, Number of poles: 36, 180°, Solder pin		
Qty.	8 ST	length (I): 3.2 mm, tinned, black, Box		