



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















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Just as reliable as the millionfold proven original and featuring innovative details:

The BLF 5.00HC PUSH IN version of the BLZ 5.00HC female connector features a new connection system and a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current. In terms of versatility, the BLF 5.00HC offers just as much as the older versions:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user

General ordering data

Version	PCB plug-in connector, female plug, 5.00 mm,
	Number of poles: 17, 90°, PUSH IN with actuator,
	Clamping range, max.: 3.31 mm², Box
Order No.	<u>1979420000</u>
Туре	BLF 5.00HC/17/90 SN BK BX
GTIN (EAN)	4032248674626
Qty.	18 items
Product data	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²
	UL: 300 V / 18.5 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	26.2 mm	Depth (inches)	1.0315 inch
Height	20.8 mm	Height (inches)	0.8189 inch
Width	85 mm	Width (inches)	3.3464 inch
Net weight	37.33 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	PUSH IN with actuator	Pitch in mm (P)	5.00 mm
Pitch in inches (P)	0.197 "	Conductor outlet direction	90°
Number of poles	17	L1 in mm	80.00 mm
L1 in inches	3.152 "	Number of rows	1
Pin series quantity	1	Rated cross-section	2.5 mm ²
Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand 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	10 mm
Screwdriver blade	0.6 x 3.5	Screwdriver blade standard	DIN 5264
Plugging cycles	25	Plugging force/pole, max.	7 N
Pulling force/pole, max.	5.5 N		

Material data

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	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.	-30 °C	Temperature range, installation, max.	100 °C

Conductors suitable for connection

Clamping range, min.	0.13 mm ²
Clamping range, max.	3.31 mm ²
Wire connection cross section AWG,	AWG 26
min.	

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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	
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		
min.		
w. plastic collar ferrule, DIN 46228 pt max.		
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm²	
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 2.0 mm	
Clampable conductor	Cross-section for conductor connection	Type fine-wired
		nominal 0.5 mm ²
	wire end ferrule	Stripping length nominal 12 mm
		Recommended wire- H0,5/16 OR end ferrule
		Stripping length nominal 10 mm
		Recommended wire- H0.5/10 end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 0.75 mm ²
	wire end ferrule	Stripping length nominal 12 mm
		Recommended wire- H0,75/16 W end ferrule
		Stripping length nominal 10 mm
		Recommended wire- H0,75/10 end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 1 mm ²
	wire end ferrule	Stripping length nominal 12 mm
		Recommended wire- H1,0/16D R end ferrule
		Stripping length nominal 10 mm
		Recommended wire- H1.0/10 end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 1.5 mm ²
	wire end ferrule	Stripping length nominal 10 mm
		Recommended wire- H1,5/10 end ferrule
		Stripping length nominal 12 mm
		Recommended wire- H1,5/16 R end ferrule
	Cross-section for conductor connection	
	Gross-section for conductor connection	Type fine-wired nominal 2.5 mm ²
	wire end ferrule	
	wite etta tetrale	Stripping length nominal 10 mm Recommended wire- H2,5/10
B. (<u> </u>	end ferrule
Reference text	is to be chosen depending on the product and	ld not be larger than the pitch (P), Length of ferrul the rated voltage.

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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)	24 A	
Rated current, max. number of poles (Tu=20°C)	19 A	Rated current, min. number of poles (Tu=40°C)	21 A	
Rated current, max. number of poles (Tu=40°C)	16.5 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 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 12	Wire cross-section, AWG, max.	AWG 26
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)	18.5 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	350.00 mm
VPE width	135.00 mm	VPE height	30.00 mm

Type tests

T (D 100) (10	0	IFO 01004
Test: Durability of markings	Standard	IEC 61984 section 6.2 and 7.3.2 / 10.08 taking
		pattern from IEC 60068-2-70 / 12.95
	Test	mark of origin, type identification, pitch, type of
		material, date clock
	Evaluation	available
	Test	durability
	Evaluation	passed
Test: Misengagement (Non-	Standard	IEC 61984 section 6.3 and 6.9.1 / 10.08, IEC
interchangeability)		60512-13-5 / 02.06
	Test	180° turned with coding elements
	Evaluation	passed
	Test	visual examination
	Evaluation	passed
Test: Clampable cross section	Standard	IEC 60999-1 section 7 and 9.1 / 11.99, IEC
·		60947-1 section 8.2.4.5.1 / 06.07
	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 ² and conductor cross-section
		Type of conductor solid 2.5 mm² and conductor cross-section
		Type of conductor stranded 2.5 mm ² and conductor cross-section
		Type of conductor AWG 26/1 and conductor cross-section
		Type of conductor AWG 26/19 and conductor cross-section
		Type of conductor AWG 14/1 and conductor cross-section
		Type of conductor AWG 14/19 and conductor cross-section
	Evaluation	passed
Test for damage to and accidental	Standard	IEC 60999-1 section 9.4 / 11.99
loosening of conductors	Requirement	0.2 kg
	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 H05V-U0.5 and conductor cross-section
		Type of conductor H05V-K0.5 and conductor cross-section
	Evaluation	passed
	Requirement	0.7 kg
	Conductor type	Type of conductor H07V-U2.5 and conductor cross-section
		Type of conductor H07V-K2.5 and conductor cross-section
		Type of conductor AWG 14/1 and conductor cross-section
		Type of conductor AWG 14/19 and conductor cross-section
	Evaluation	passed
Pull-out test	Standard	IEC 60999-1 section 9.5 / 11.99
	Requirement	≥10 N
	Conductor type	Type of conductor AWG 26/1 and conductor cross-section
		Type of conductor AWG 26/19 and conductor cross-section
		00011011
	Evaluation	passed



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Technical data

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	≥50 N	
Conductor type	Type of conductor H07V-U2.5 and conductor cross-section	
	Type of conductor H07V-K2.5 and conductor cross-section	
	Type of conductor AWG 14/1 and conductor cross-section	
	Type of conductor AWG 14/19 and conductor cross-section	
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
- Crimping shape "A" for wire end ferrules with PZ 6/5 crimping tool recommended.
- The test point can only be used as potential-pickup point.
- 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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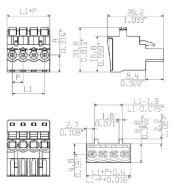
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Drawings

Product image



Dimensional drawing



MIN. FRONT PLATE CUT-OUT

Uncompromising functionalityHigh vibration resistance

Product benefits



Uncompromising functionalityHigh vibration resistance

Product benefits



Solid PUSH IN contactSafe and durable



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Drawings

Product benefits



Cost-effective wiringQuick and intuitive operation

Product benefits



Wide clamping rangeTool-free wire connection



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Accessories



Coding elements Only connects what is supposed to be connected: the

and operation

right connection at the right place. Coding elements and locking devices clearly assign connecting elements during the manufacturing process

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 BK BX	Version
Order No.	<u>1545710000</u>	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4008190087142	of poles: 1
Qty.	50 ST	
Туре	BLZ/SL KO OR BX	Version
Type Order No.	BLZ/SL KO OR BX 1573010000	Version PCB plug-in connector, Accessories, Coding element, orange, 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.	9008330000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056286	
Qty.	1 ST	
Туре	SDS 0.6X3.5X200	Version
Order No.	9010110000	Screwdriver, Screwdriver
GTIN (EAN)	4032248300754	
Qty.	1 ST	
Туре	SDIS 0.6X3.5X100	Version
Order No.	9008390000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056354	
Qty.	1 ST	

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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 5.00/17/135 3.2SN OR...
 Version

 Order No.
 1630400000
 PCB plug-in connector, male header, open side, THT solder

 GTIN (EAN)
 4008190203825
 connection, 5.00 mm, Number of poles: 17, 135°, Solder pin length

Qty. 20 ST (I): 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 5.00/17/135B 3.2SN O	Version
Order No.	<u>1630630000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4032248198825	solder connection, 5.00 mm, Number of poles: 17, 135°, Solder pin
Qty.	20 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

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Туре	SL 5.00/17/180 3.2SN OR	Version
Order No.	<u>1581470000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190060787	connection, 5.00 mm, Number of poles: 17, 180°, Solder pin length
Qty.	20 ST	(I): 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 5.00/17/180B 3.2SN 0...
 Version

 Order No.
 1581930000
 PCB plug-in connector, male header, Dovetails for fixing blocks, THT

 GTIN (EAN)
 4008190066857
 solder connection, 5.00 mm, Number of poles: 17, 180°, Solder pin

 Qty.
 20 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 5.00/17/90 3.2SN OR	Version
Order No.	<u>1571270000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190100421	connection, 5.00 mm, Number of poles: 17, 90°, Solder pin length (I):
Qty.	20 ST	3.2 mm, tinned, orange, Box

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.

General ordering data

Туре	SL 5.00/17/90B 3.2SN OR	Version
	, ,	
	<u>1581010000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190181499	solder connection, 5.00 mm, Number of poles: 17, 90°, Solder pin
Qty.	20 ST	length (I): 3.2 mm, tinned, orange, Box

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Counterpart

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 5.00/34/180G 3.2SN ... Version

Order No. 1614960000 PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN) 4008190041106 connection, 5.00 mm, Number of poles: 34, 180°, Solder pin length

Qty. 10 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

Type SLD 5.00/34/90G 3.2 SN ... Version
Order No. 1614500000 PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN) 4008190031435 connection, 5.00 mm, Number of poles: 34, 90°, Solder pin length (I):
Oty. 10 ST 3.2 mm, tinned, orange, Box

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

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Туре	SL-SMT 5.00HC/17/180 3	Version
Order No.	<u>1841080000</u>	PCB plug-in connector, male header, open side, THT/THR solder
GTIN (EAN)	4032248351961	connection, 5.00 mm, Number of poles: 17, 180°, Solder pin length
Qty.	20 ST	(I): 3.2 mm, tinned, black, Box



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Counterpart

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.

General ordering data

Type SL-SMT 5.00HC/17/180G 3... Version
Order No. 1841310000 PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN) 4032248352210 connection, 5.00 mm, Number of poles: 17, 180°, Solder pin length
Oty. 20 ST (I): 3.2 mm, tinned, black, Box

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

 Type
 SL-SMT 5.00HC/17/90 3.2...
 Version

 Order No.
 1840040000
 PCB plug-in connector, male header, open side, THT/THR solder

 GTIN (EAN)
 4032248350780
 connection, 5.00 mm, Number of poles: 17, 90°, Solder pin length (I):

 Qty.
 20 ST
 3.2 mm, tinned, black, Box

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

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Туре	SL-SMT 5.00HC/17/90G 3	Version
Order No.	1840270000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248351015	connection, 5.00 mm, Number of poles: 17, 90°, Solder pin length (I):
Qty.	20 ST	3.2 mm, tinned, black, Box