



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image























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: 16, 180°, PUSH IN with actua-
	tor, Clamping range, max. : 3.31 mm², Box
Order No.	<u>1017390000</u>
Туре	BLF 5.00HC/16/180F SN BK BX
GTIN (EAN)	4032248728138
Qty.	18 items
Product data	IEC: 400 V / 23 A / 0.2 - 2.5 mm ²
	UL: 300 V / 18.5 A / AWG 26 - AWG 12
Packaging	Вох





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Approvals

Approvals



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

Dimensions and weights

Depth	27.6 mm	Depth (inches)	1.0866 inch
Height	14.2 mm	Height (inches)	0.5591 inch
Width	85.1 mm	Width (inches)	3.3504 inch
Net weight	32.94 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	180°			
Number of poles	16			
L1 in mm	75.00 mm			
L1 in inches	2.955 "			_
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			
Tightening torque	Torque type	Screw flange		
	Usage information	Tightening torque	min.	0.2 Nm
			max.	0.25 Nm

Material data

Insulating material	PBT	Colour	black	
Colour chart (similar)	RAL 9011	Insulating material group	Illa	

Creation date 30.11.2025 12:13:56 MEZ





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

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.			
Wire connection cross section AWG,	AWG 12		
max.			
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 4,	2.5 mm ²		
max.			
w. wire end ferrule, DIN 46228 pt 1,	0.25 mm ²		
min.			
w. wire end ferrule, DIN 46228 pt 1,	2.5 mm ²		
max.			
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	Туре	fine-wired

Clampable	conductor
-----------	-----------

Cross-section for conductor connection	Туре	fine-wired
	nominal	0.5 mm ²
wire end ferrule	Stripping length	nominal 12 mm
	Recommended wire- end ferrule	H0,5/16 OR
	Stripping length	nominal 10 mm
	Recommended wire- end ferrule	<u>H0,5/10</u>
Cross-section for conductor connection	Type	fine-wired
	nominal	0.75 mm ²
wire end ferrule	Stripping length	nominal 12 mm
	Recommended wire- end ferrule	H0,75/16 W
	Stripping length	nominal 10 mm
	Recommended wire- end ferrule	H0,75/10
Cross-section for conductor connection	Туре	fine-wired
	nominal	1 mm ²
wire end ferrule	Stripping length	nominal 12 mm
	Recommended wire- end ferrule	H1,0/16D R
	Stripping length	nominal 10 mm
	Recommended wire- end ferrule	H1,0/10
Cross-section for conductor connection	Type	fine-wired
	nominal	1.5 mm ²
wire end ferrule	Stripping length	nominal 10 mm
	Recommended wire- end ferrule	H1,5/10
	Stripping length	nominal 12 mm
	Recommended wire- end ferrule	H1,5/16 R
Cross-section for conductor connection	Type	fine-wired







Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

		nominal	2.5 mm ²	
	wire end ferrule	Stripping length	nominal 10 mm	
		Recommended wire-	H2,5/10	
		end ferrule		
Reference text	•	The outside diameter of the plastic collar should not be larger than the pitch (P), Length of ferr 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 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

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- interchangeability)	Standard	IEC 61984 section 6.3 and 6.9.1 / 10.08, IEC 60512-13-5 / 02.06
	Test	180° turned with coding elements
	Evaluation	passed

Creation date 30.11.2025 12:13:56 MEZ





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

	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
		Type of conductor stranded 0.2 mm ² and conductor cross-section
		Type of conductor solid 2.5 mm ² 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
est for damage to and accidental	Standard	IEC 60999-1 section 9.4 / 11.99
osening 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
'ull-out test	Standard	IEC 60999-1 section 9.5 / 11.99
	Requirement	≥10 N



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Conductor type	Type of conductor and conductor cross-section	AWG 26/1
	Type of conductor and conductor cross-section	AWG 26/19
Evaluation	passed	
Requirement	≥20 N	
Conductor type	Type of conductor and conductor cross-section	H05V-U0.5
	Type of conductor and conductor cross-section	H05V-K0.5
Evaluation	passed	
Requirement	≥50 N	
Conductor type	Type of conductor and conductor cross-section	H07V-U2.5
	Type of conductor and conductor cross-section	H07V-K2.5
	Type of conductor and conductor cross-section	AWG 14/1
	Type of conductor and conductor cross-section	AWG 14/19
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
- 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
- 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		

Creation date 30.11.2025 12:13:56 MEZ



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

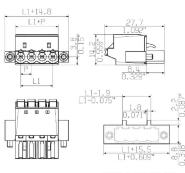
www.weidmueller.com

Drawings

Product image

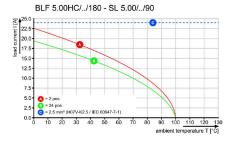


Dimensional drawing

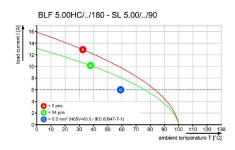


FRONT PLATE CUT-OUT

Graph



Graph



Uncompromising functionalityHigh vibration resistance

Product benefits



Uncompromising functionalityHigh vibration resistance

Product benefits



Solid PUSH IN contactSafe and durable



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Drawings

Product benefits



Cost-effective wiringQuick and intuitive operation

Product benefits



Wide clamping rangeTool-free wire connection



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

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 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	

Creation date 30.11.2025 12:13:56 MEZ



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Counterpart

SL-SMT 5.00HC/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 5.00HC/16/180LF	Version
Order No.	<u>1796920000</u>	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248237548	connection, 5.00 mm, Number of poles: 16, 180°, Solder pin length
Qty.	18 ST	(I): 1.5 mm, tinned, black, Box
Туре	SL-SMT 5.00HC/16/180LF	Version
Type Order No.	SL-SMT 5.00HC/16/180LF 1841530000	Version PCB plug-in connector, male header, Solder flange, THT/THR solder

SL-SMT 5.00HC/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

Туре	SL-SMT 5.00HC/16/90LF 1	Version
Order No.	<u>1797370000</u>	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248238156	connection, 5.00 mm, Number of poles: 16, 90°, Solder pin length (I):
Qty.	18 ST	1.5 mm, tinned, black, Box
Туре	SL-SMT 5.00HC/16/90LF 3	Version
Type Order No.	SL-SMT 5.00HC/16/90LF 3 1840490000	Version PCB plug-in connector, male header, Solder flange, THT/THR solder
	, ,	

Creation date 30.11.2025 12:13:56 MEZ



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Counterpart

SLDV-THR 5.00/180F



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

Type SLDV-THR 5.00/32/180F 3... Version
Order No. 1881400000 PCB plug-in connector, male header, Flange, THT/THR solder

GTIN (EAN) 4032248482740 connection, 5.00 mm, Number of poles: 32, 180°, Solder pin length

Qty. 10 ST (I): 3.2 mm, tinned, black, Box

SLDV-THR 5.00/180FLF



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

Type SLDV-THR 5.00/32/180FLF... Version

Order No. 1895600000 PCB plug-in connector, male header, Flange / Solder flange, THT/THR

GTIN (EAN) 4032248510344 solder connection, 5.00 mm, Number of poles: 32, 180°, Solder pin

Oty. 10 ST length (I): 1.5 mm, tinned, black, Box