



Klingenbergstraße 26 D-32758 Detmold Germany

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#### **Product image**























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

The BLF 5.08HC PUSH IN version of the BLZP 5.08HC female connector is not only different in terms of connection system; it also has 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.

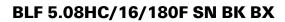
In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 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
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

#### **General ordering data**

Version	PCB plug-in connector, female plug, 5.08 mm,
	Number of poles: 16, 180°, PUSH IN with actua-
	tor, Clamping range, max.: 3.31 mm <sup>2</sup> , Box
Order No.	<u>1012970000</u>
Туре	BLF 5.08HC/16/180F SN BK BX
GTIN (EAN)	4032248720736
Qty.	18 items
Product data	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>
	UL: 300 V / 18.5 A / AWG 26 - AWG 12
Packaging	Вох







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# **Technical data**

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Approvals



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

#### **Dimensions and weights**

Depth	27.7 mm	Depth (inches)	1.0905 inch
Height	14.2 mm	Height (inches)	0.5591 inch
Width	91.08 mm	Width (inches)	3.5858 inch
Net weight	29.39 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	PUSH IN with actuator				
Pitch in mm (P)	5.08 mm				
Pitch in inches (P)	0.200 "				
Conductor outlet direction	180°				
Number of poles	16				
L1 in mm	76.20 mm				
L1 in inches	3.000 "				
Number of rows	1				
Pin series quantity	1				
Rated cross-section	2.5 mm <sup>2</sup>				
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	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	So	crew flange		
	Usage information	7	Fightening 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	

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# **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 <sup>2</sup>				
Clamping range, max.	3.31 mm <sup>2</sup>				
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 <sup>2</sup>				
Solid, max. H05(07) V-U	2.5 mm <sup>2</sup>				
Flexible, min. H05(07) V-K	0.2 mm <sup>2</sup>				
Flexible, max. H05(07) V-K	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>			
w. plastic collar ferrule, DIN 46228 pt	4, 0.25 mm²				
min.					
w. plastic collar ferrule, DIN 46228 pt	4, 2.5 mm²				
max.					
w. wire end ferrule, DIN 46228 pt 1,	0.25 mm <sup>2</sup>				
min.					
w. wire end ferrule, DIN 46228 pt 1,	2.5 mm <sup>2</sup>				
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		
			0.5		

Туре	fine-wired
nominal	0.5 mm <sup>2</sup>
Stripping length	nominal 12 mm
Recommended wire- end ferrule	H0,5/16 OR
Stripping length	nominal 10 mm
Recommended wire- end ferrule	H0,5/10
Туре	fine-wired
nominal	0.75 mm <sup>2</sup>
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
Туре	fine-wired
nominal	1 mm <sup>2</sup>
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
Туре	fine-wired
nominal	1.5 mm <sup>2</sup>
Stripping length	nominal 10 mm
Recommended wire- end ferrule	H1,5/10
	nominal Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule Type nominal Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule Type nominal Stripping length Recommended wire- end ferrule Type nominal Stripping length Recommended wire-



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# **Technical data**

	Recommended wire- end ferrule	H1,5/16 R	
Cross-section for conductor connection	Туре	fine-wired	
	nominal	2.5 mm <sup>2</sup>	
wire end ferrule	Stripping length	nominal	10 mm
	Recommended wire- end ferrule	H2,5/10	
	Stripping length	nominal	10 mm
	Recommended wire- end ferrule	H2,5/14DS	S BL

Reference text

The outside diameter of the plastic collar should not be larger than the pitch (P), Length of ferrules 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)	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 D / CSA)	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.

#### 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	352.00 mm
VPE width	135.00 mm	VPE height	39.00 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, type identification, pitch, type of material, date clock
	Evaluation	available
	Test	durability

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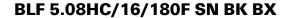
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# **Technical data**

	Evaluation	passed	
Test: Misengagement (Non- interchangeability)	Standard	DIN EN 61984 section 6.3 and 6.9.1 / 09.02, DIN EN 60512-13-5 / 11.08	
	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 / 04.08	
	Conductor type	Type of conductor solid 0.2 mm <sup>2</sup> and conductor cross-section	
		Type of conductor stranded 0.2 mm <sup>2</sup> and conductor cross-section	
		Type of conductor solid 2.5 mm <sup>2</sup> and conductor cross-section	
		Type of conductor stranded 2.5 mm <sup>2</sup> 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	DIN EN 60999-1 section 9.4 / 12.00	
loosening of conductors	Requirement	0.2 kg	
locooning of confidence	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	
	Evaluation	passed	
	Requirement	0.9 kg	
	Conductor type	Type of conductor AWG 12/1 and conductor cross-section	





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## **Technical data**

		Type of conductor AWG 12/19 and conductor cross-section
	Evaluation	passed
Pull-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00
	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
	Evaluation	passed
	Requirement	≥20 N
	Conductor type	Type of conductor H05V-K0.5 and conductor cross- section
		Type of conductor H05V-U0.5 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
	Evaluation	passed
	Requirement	≥60 N
	Conductor type	Type of conductor AWG 12/1 and conductor cross-section
		Type of conductor AWG 12/19 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

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# **Technical data**

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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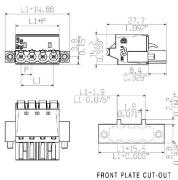
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# **Drawings**

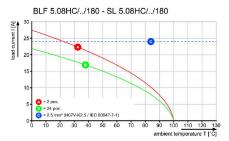
#### **Product image**



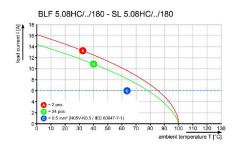
#### **Dimensional drawing**



#### Graph



Graph





Uncompromising functionalityHigh vibration resistance

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# **Drawings**

#### **Product benefits**



Solid PUSH IN contactSafe and durable

#### **Product benefits**



Cost-effective wiringQuick and intuitive operation

#### **Product benefits**



Wide clamping rangeTool-free wire connection