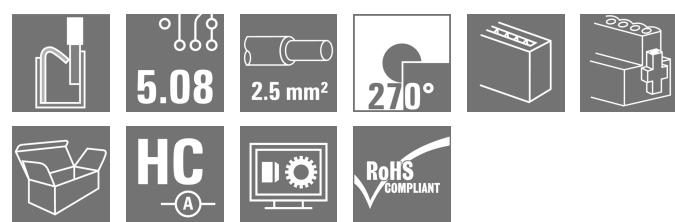


## BLF 5.08HC/06/270F SN OR BX

Weidmüller Interface GmbH & Co. KG  
Klingenbergsstraße 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: 6, 270°, PUSH IN with actuator, Clamping range, max. : 3.31 mm <sup>2</sup> , Box
Order No.	<a href="#">1982930000</a>
Type	BLF 5.08HC/06/270F SN OR BX
GTIN (EAN)	4032248687022
Qty.	42 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	Box

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## Technical data

## Approvals

## Approvals



RoHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate No. (cURus)	E60693

## Dimensions and weights

Depth	26.2 mm	Depth (inches)	1.0315 inch
Height	20.6 mm	Height (inches)	0.811 inch
Width	40.28 mm	Width (inches)	1.5858 inch
Net weight	12.55 g		

## Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%
Product Carbon Footprint	Cradle to gate 0,521 kg CO2 eq.

## 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	270°		
Number of poles	6		
L1 in mm	25.40 mm		
L1 in inches	1.000 "		
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	Screw flange	
	Usage information	Tightening torque	min. 0.2 Nm
			max. 0.25 Nm

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## Material data

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
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	4...8 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, min.	AWG 26
Wire connection cross section AWG, max.	AWG 12
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>
w. plastic collar ferrule, DIN 46228 pt 4, 0.25 mm <sup>2</sup> min.	
w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm <sup>2</sup> max.	
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm <sup>2</sup>
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 <sup>2</sup>	
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire-end ferrule	<a href="#">H0,5/16 OR</a>
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	<a href="#">H0,5/10</a>
	Cross-section for conductor connection	Type	fine-wired
	nominal	0.75 mm <sup>2</sup>	
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire-end ferrule	<a href="#">H0,75/16 W</a>
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	<a href="#">H0,75/10</a>
	Cross-section for conductor connection	Type	fine-wired
	nominal	1 mm <sup>2</sup>	
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire-end ferrule	<a href="#">H1,0/16D R</a>
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	<a href="#">H1,0/10</a>
	Cross-section for conductor connection	Type	fine-wired
	nominal	1.5 mm <sup>2</sup>	
	wire end ferrule	Stripping length	nominal 10 mm

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	Recommended wire-end ferrule	<a href="#">H1,5/10</a>
	Stripping length	nominal 12 mm
	Recommended wire-end ferrule	<a href="#">H1,5/16 R</a>
Cross-section for conductor connection	nominal	2.5 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 10 mm
	Recommended wire-end ferrule	<a href="#">H2,5/10</a>
	Stripping length	nominal 13 mm
	Recommended wire-end ferrule	<a href="#">H2,5/16DS BL</a>

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 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	349.00 mm
VPE width	136.00 mm	VPE height	31.00 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
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Test: Misengagement (Non-interchangeability)	Test	mark of origin, type identification, pitch, type of material, date clock																																
	Evaluation	available																																
	Test	durability																																
	Evaluation	passed																																
Test: Clampable cross section	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	<table> <tr> <td>Type of conductor</td> <td>solid 0.2 mm<sup>2</sup></td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> </table> <table> <tr> <td>Type of conductor</td> <td>stranded 0.2 mm<sup>2</sup></td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> </table> <table> <tr> <td>Type of conductor</td> <td>solid 2.5 mm<sup>2</sup></td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> </table> <table> <tr> <td>Type of conductor</td> <td>stranded 2.5 mm<sup>2</sup></td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> </table> <table> <tr> <td>Type of conductor</td> <td>AWG 26/1</td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> </table> <table> <tr> <td>Type of conductor</td> <td>AWG 26/19</td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> </table> <table> <tr> <td>Type of conductor</td> <td>AWG 14/1</td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> </table> <table> <tr> <td>Type of conductor</td> <td>AWG 14/19</td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> </table>	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	
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Type of conductor	AWG 14/19																																	
and conductor cross-section																																		
	Evaluation	passed																																
Test for damage to and accidental loosening of conductors	Standard	DIN EN 60999-1 section 9.4 / 12.00																																
	Requirement	0.2 kg																																
	Conductor type	<table> <tr> <td>Type of conductor</td> <td>AWG 26/1</td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> </table> <table> <tr> <td>Type of conductor</td> <td>AWG 26/19</td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> </table>	Type of conductor	AWG 26/1	and conductor cross-section		Type of conductor	AWG 26/19	and conductor cross-section																									
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	Evaluation	passed																																
	Requirement	0.7 kg																																
	Conductor type	<table> <tr> <td>Type of conductor</td> <td>H07V-U2.5</td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> </table> <table> <tr> <td>Type of conductor</td> <td>H07V-K2.5</td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> </table>	Type of conductor	H07V-U2.5	and conductor cross-section		Type of conductor	H07V-K2.5	and conductor cross-section																									
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## Technical data

	Requirement	0.9 kg
	Conductor type	Type of conductor and conductor cross-section
		AWG 12/1
		Type of conductor 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 and conductor cross-section
		AWG 26/1
		Type of conductor and conductor cross-section
	Evaluation	passed
	Requirement	≥ 20 N
	Conductor type	Type of conductor and conductor cross-section
		H05V-U0.5
		Type of conductor and conductor cross-section
	Evaluation	passed
	Requirement	≥ 50 N
	Conductor type	Type of conductor and conductor cross-section
		H07V-U2.5
		Type of conductor and conductor cross-section
	Evaluation	passed
	Requirement	≥ 60 N
	Conductor type	Type of conductor and conductor cross-section
		AWG 12/1
		Type of conductor 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	<ul style="list-style-type: none"> <li>Additional variants on request</li> <li>Gold-plated contact surfaces on request</li> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>Wire end ferrule without plastic collar to DIN 46228/1</li> <li>Wire end ferrule with plastic collar to DIN 46228/4</li> <li>P on drawing = pitch</li> <li>Crimping shape "A" for wire end ferrules with PZ 6/5 crimping tool recommended.</li> <li>The test point can only be used as potential-pickup point.</li> <li>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</li> <li>Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul>

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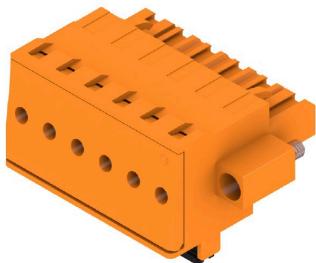
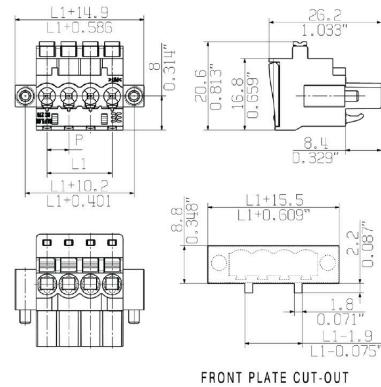
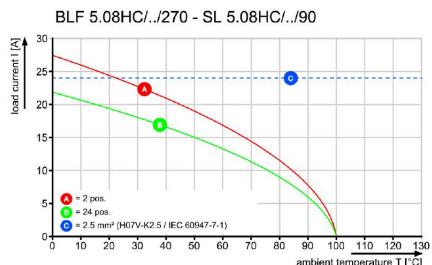
**Technical data****Classifications**

ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		

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**Drawings****Product image****Dimensional drawing****Graph**

Uncompromising functionality High 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