



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:

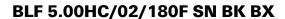
The BLF 5.00HC PUSH IN version of the BLZ 5.00HC female connector features a new connection system and a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current. In terms of versatility, the BLF 5.00HC 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: 2, 180°, PUSH IN with actuator,
	Clamping range, max.: 3.31 mm ² , Box
Order No.	<u>1017240000</u>
Туре	BLF 5.00HC/02/180F SN BK BX
GTIN (EAN)	4032248728275
Qty.	90 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







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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	27.6 mm	Depth (inches)	1.0866 inch
Height	14.2 mm	Height (inches)	0.5591 inch
Width	15.1 mm	Width (inches)	0.5945 inch
Net weight	4.97 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	2			
L1 in mm	5.00 mm			
L1 in inches	0.197 "			
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	

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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	1, 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	2.8 mm x 2.0 mm				
60999 a x b; ø					
Clampable conductor	Cross-section for conductor connection	Type	fine-wired		

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	H0,5/10
Cross-section for conductor connection	Туре	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	Туре	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	Туре	fine-wired

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	nominal	2.5 mm ²
wire end ferrule	Stripping length	nominal 10 mm
	Recommended wire- end ferrule	H2,5/10
The outside diameter of the plastic collar should not be larger than the pitch (P), Length of ferrule is to be chosen depending on the product and the rated voltage.		tch (P), Length of ferrules

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	351.00 mm
VPE width	136.00 mm	VPE height	38.00 mm

Type tests

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
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
	Test Evaluation Test Evaluation Standard Test

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	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	
oosening 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	



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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		

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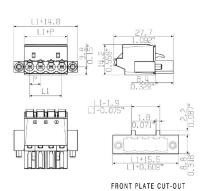
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Drawings

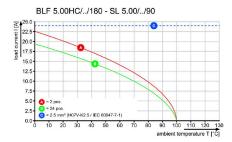
Product image

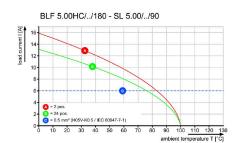


Dimensional drawing



Graph Graph





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