

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image













1







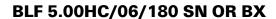
Just as reliable as the millionfold proven original and featuring innovative details:

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: 6, 180°, PUSH IN with actuator,
	Clamping range, max.: 3.31 mm², Box
Order No.	<u>1017910000</u>
Туре	BLF 5.00HC/06/180 SN OR BX
GTIN (EAN)	4032248728633
Qty.	60 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	30 mm	Width (inches)	1.1811 inch
Net weight	11.23 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	6	L1 in mm	25.00 mm
L1 in inches	0.985 "	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

PBT	Colour	orange
RAL 2000	Insulating material group	Illa
≥ 200	Moisture Level (MSL)	
V-0	Contact material	Cu-alloy
tinned	Layer structure of plug contact	48 µm Sn hot-dip tinned
-40 °C	Storage temperature, max.	70 °C
-50 °C	Operating temperature, max.	100 °C
-30 °C	Temperature range, installation, max.	100 °C
	RAL 2000 ≥ 200 V-0 tinned -40 °C -50 °C	RAL 2000 Insulating material group ≥ 200 Moisture Level (MSL) V-0 Contact material tinned Layer structure of plug contact -40 °C Storage temperature, max. -50 °C Operating temperature, max.

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		
max.	·, =	
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²	
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
	Cross section for confidence confidence	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
	1000	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- end ferrule
		Stripping length nominal 12 mm
		Recommended wire- end ferrule
	Cross-section for conductor connection	Type fine-wired
	5.555 555 651 151 551 dd dottor 551 filoddolf	nominal 2.5 mm ²
	wire end ferrule	Stripping length nominal 10 mm
	wile one letture	Recommended wire- end ferrule
Reference text	The outside diameter of the plastic collar sho	I .

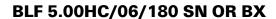
is to be chosen depending on the product and the rated voltage.

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

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Rated current, max. number of poles 16 A (Tu=40°C)	Rated voltage for surge voltage class / 400 V pollution degree II/2
Rated voltage for surge voltage class / 320 V pollution degree III/2	Rated voltage for surge voltage class / 250 V pollution degree III/3
Rated impulse voltage for surge voltage 4 kV class/ pollution degree II/2	Rated impulse voltage for surge voltage 4 kV class/ pollution degree III/2
Rated impulse voltage for surge voltage 4 kV class/ contamination degree III/3	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	Вох	VPE length	352.00 mm
VPE width	137.00 mm	VPE height	38.00 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	
	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	

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		Type of conductor stranded 2.5 m and conductor cross-section	nm²
		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	
st for damage to and accidental	Standard	IEC 60999-1 section 9.4 / 11.99	
sening 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	
ıll-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	
	Evaluation	passed	
	Requirement	≥20 N	
	Conductor type	Type of conductor H05V-U0.5 and conductor cross-section	
		Type of conductor H05V-K0.5 and conductor cross-section	



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Technical data

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
- 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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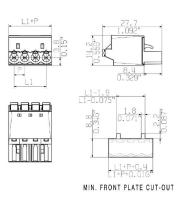
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Drawings

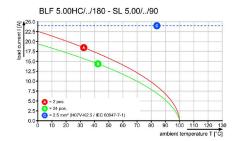
Product image

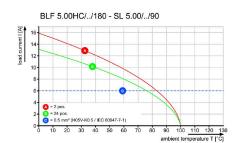


Dimensional drawing



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