



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## **Product image**















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Male plug with PUSH IN wire connection and straight outlet direction, when used with BLF 5.08HC as wire-to-wire application for panel feed-through The male plugs provide space for labelling and can be coded.

#### **General ordering data**

Version	PCB plug-in connector, male plug, 5.08 mm, Num-
	ber of poles: 12, 180°, PUSH IN with actuator,
	Clamping range, max. : 3.31 mm <sup>2</sup> , Box
Order No.	1335550000
Туре	SLF 5.08/12/180B SN OR BX
GTIN (EAN)	4050118138917
Qty.	24 items
Product data	IEC: 400 V / 25.9 A / 0.2 - 2.5 mm <sup>2</sup>
	UL: 300 V / 14 A / AWG 26 - AWG 12
Packaging	Box



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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	30 mm	Depth (inches)	1.1811 inch
Height	14.2 mm	Height (inches)	0.5591 inch
Net weight	24.54 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	12	L1 in mm	55.88 mm
L1 in inches	2.200 "	Number of rows	1
Pin series quantity	1	Rated cross-section	2.5 mm <sup>2</sup>
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**

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Copper 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.	-25 ℃	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>

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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, 0.2 mm²		
min.			
w. plastic collar ferrule, DIN 46228 pt 4 max.	4, 2.5 mm²		
v. wire end ferrule, DIN 46228 pt 1,	0.2 mm <sup>2</sup>		
nin.	○· <u>-</u>		
v. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm <sup>2</sup>		
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	Туре	fine-wired
		nominal	0.5 mm <sup>2</sup>
	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 <sup>2</sup>
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H0,75/16 W
		Stripping length	nominal 10 mm
		Recommended wire-	H0,75/10
	Cross-section for conductor connection	Туре	fine-wired
	Cross section for confidence confidence	nominal	1 mm <sup>2</sup>
	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
	5.555 555 ion for conductor confliction	nominal	1.5 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
	VIII ON IOTAIO	Recommended wire-	H1,5/10
		end ferrule	111,0/10
		Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H1,5/16 R
	Cross-section for conductor connection	Туре	fine-wired
	5.555 5561611 161 GG1144G161 GG1111GG1G11	nominal	2.5 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
	Will old fortule	Recommended wire-	H2,5/14DS BL
deference text	The outside diameter of the plastic collar sho		

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)	25.9 A
Rated current, max. number of poles (Tu=20°C)	21.7 A	Rated current, min. number of poles (Tu=40°C)	22.5 A

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# **Technical data**

Rated current, max. number of poles 18.5 A	Rated voltage for surge voltage class / 400 V
(Tu=40°C)	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 4000 V 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 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details -		

## 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)	14 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	139.00 mm	VPE height	38.00 mm

## Type tests

Test: Durability of markings	Standard	IEC 61984 section 6.2 and 7.3.2 / 10.11, IEC 60068-2-70 / 12.95	
	Test	mark of origin, type identification, pitch, date clock, type of material	
	Evaluation	available	
	Test	durability	
	Evaluation	passed	
Test: Misengagement (Non- interchangeability)	Standard	IEC 61984 section 6.3 and 6.9.1 / 10.11, 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 / 03.11	
	Conductor type	Type of conductor solid 0.5 mm <sup>2</sup> and conductor cross- section	
		Type of conductor stranded 0.5 mm <sup>2</sup> and conductor cross-section	
		Type of conductor stranded 1.0 mm <sup>2</sup> and conductor cross-section	

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		Type of conductor solid 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	
st 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-K2.5 and conductor cross-section	
		Type of conductor H07V-U2.5 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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Evaluation	passed		
Requirement	≥50 N		
Conductor type	Type of conductor H07V-K2.5 and conductor cross-section		
	Type of conductor H07V-U2.5 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

	<u>'</u>		
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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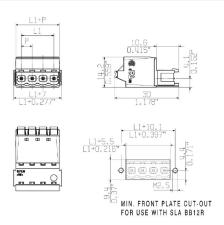
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# **Drawings**

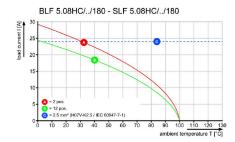
#### **Product image**

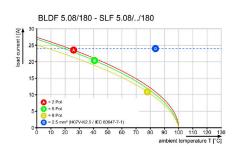


## **Dimensional drawing**



**Graph** Graph





#### **Product benefits**



Uncompromising functionalityHigh vibration resistance

#### **Product benefits**



Solid PUSH IN contactSafe and durable



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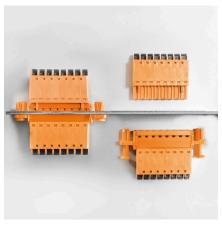
# **Drawings**

#### **Product benefits**



Lower assembly costsSecure in a matter of seconds

#### **Product benefits**



Easy handlingNo implementation framework necessary