

BLZ 5.00/05/180 SN OR BX
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

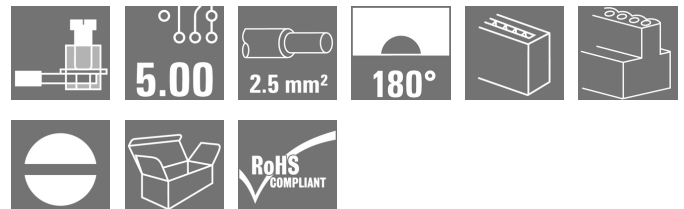
D-32758 Detmold

Germany

www.weidmueller.com
Product image


Similar to illustration

Do not use product for new developments



Female plugs with clamping-yoke screw for wire connection with straight (180°) outlet direction. The female plugs provide space for labelling and can be coded.

General ordering data

Version	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 5, 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm², Box
Order No.	1571380000
Type	BLZ 5.00/05/180 SN OR BX
GTIN (EAN)	4008190183622
Qty.	50 pc(s).
Product data	IEC: 400 V / 19 A / 0.5 - 2.5 mm² UL: 300 V / 15 A / AWG 26 - AWG 12
Packaging	Box

Delivery status: **This article will not be made available in the future.**

Creation date March 24, 2021 6:56:55 AM CET

Available until 2023-12-31

Alternative product [1954460000](#)

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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Technical data**Dimensions and weights**

Depth	20.1 mm	Depth (inches)	0.791 inch
Height	15.2 mm	Height (inches)	0.598 inch
Net weight	7.65 g	Width	25 mm
Width (inches)	0.984 inch		

System Parameters

Product family	OMNIMATE Signal - series BL/SL 5.00	Type of connection	Field connection
Wire connection method	Clamping yoke connection	Pitch in mm (P)	5 mm
Pitch in inches (P)	0.197 inch	Conductor outlet direction	180°
Number of poles	5	L1 in mm	20 mm
L1 in inches	0.788 inch	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 finger touch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Volume resistance	≤5 mΩ	Can be coded	Yes
Stripping length	7 mm	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.5 Nm	Clamping screw	M 2.5
Screwdriver blade	0.6 x 3.5	Screwdriver blade standard	DIN 5264
Plugging cycles	25	Plugging force/pole, max.	10 N
Pulling force/pole, max.	8 N		

Material data

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	Contact material	Copper 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.	-25 °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, min.	AWG 26	Wire connection cross section AWG, max.	AWG 12
Solid, min. H05(07) V-U	0.5 mm ²	Solid, max. H05(07) V-U	2.5 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²	Flexible, max. H05(07) V-K	2.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.5 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	2.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 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		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.
	2.8 mm x 2.0 mm; 2.4 mm		

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Technical data

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	19 A
Rated current, max. number of poles (Tu=20°C)	14.5 A	Rated current, min. number of poles (Tu=40°C)	16 A
Rated current, max. number of poles (Tu=40°C)	12.5 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)		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)	15 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 - see approval certificate.		

Rated data acc. to UL 1059

Institute (UR)		Certificate No. (UR)	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)	15 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	20 mm
VPE width	175 mm	VPE height	185 mm

Classifications

ETIM 6.0	EC002638	ETIM 7.0	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

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www.weidmueller.com**Technical data****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 colours 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 • Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards. • Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Approvals

Approvals



ROHS	Conform
UL File Number Search	E60693

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
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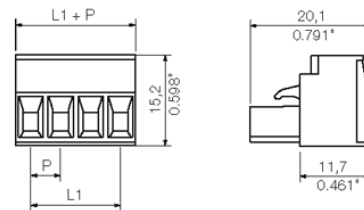
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Drawings

Dimensional drawing



Rev.

Insulation material type	
Insulation material colours	
Insulation material flammability class	UL94
Insulation resistance	MOhm
Contact base material	
Contact plating	

PBT
see order sheet
V-0
$>10^5$
Cu-alloy
tin plated

with counterpart

Pitch P	mm/inch	5.00/0.197	1)
Number of rows		1	1)
Dielectric strength (r.m.s withstand voltage)	kV	>2.21	1)
Mechanical operating cycles acc. to DIN IEC 512		25	
Pull in force (max)	N/pole	10	
Pull out force (max)	N/pole	8	
Through resistance (typical)	mOhm	2.0	
Operating temperature range	°C	-55...+100	2)
Degree of protection acc. to VDE 0106 (plugged/unplugged)		finger safe / finger safe	
Degree of protection acc. to DIN EN 60529 (plugged/unplugged)		IP20 / IP20	
Conductor connection method		clamping yoke	
Screw size		M2.5	
Screw torque max acc. to EN 60999	Nm	0.4	
Screw driver type		SD 0.6 x 3.5	

Coding possibility	yes/no
Joinable without loss of pitch	yes/no
Manual assembly of modules	yes/no
Max number of poles	n

yes (accessory)
yes
no
24

Clamping range	mm ²
"e" solid H05(07) V-U	mm ²
"f" flexible H05(07) V-K	mm ²
"f" with ferrule acc. to DIN 46228/1	mm ²
... with plastic collar acc. to DIN 46228/4	mm ²
Conductor insulation stripping length	mm/inch
Conductor insulation diameter max.	mm
Two wire clamping range	mm ²
Gauge to EN 60999 (a x b ; Ø)	mm

0.08...2.5
0.5...2.5
0.5...2.5
0.5...2.5
0.5...1.5
7/0.276
n.a.
n.a.
2.8 x 2.4; 2.4

Rated cross section acc. to EN 60999	mm ²
Rated current @ 20°C ambient (together with SL5.00/2)	A
Rated current @ 40°C ambient (together with SL5.00/2)	A
Overvoltage category / Pollution degree	
Rated voltage	V
Rated impulse voltage	kV

2.5		
18		3)
15		3)
III/3	III/2	II/2
250	320	400
4.0	4.0	4.0

File No.: E60693

Rated voltage	V
Rated current	A
AWG wire range (field wiring / factory wiring)	

B	C	D
300	-	300
15	-	10
22....12		

 File No.: LR12400

Rated voltage	V
Rated current	A
AWG wire range (field wiring / factory wiring)	

B	C	D
300	-	300
15	-	10
26...12		

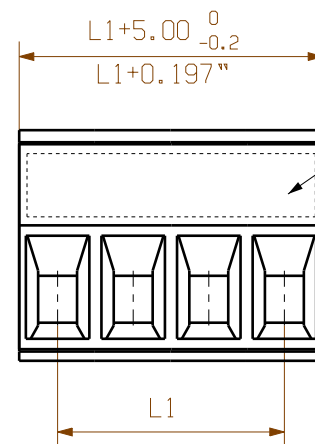
carton

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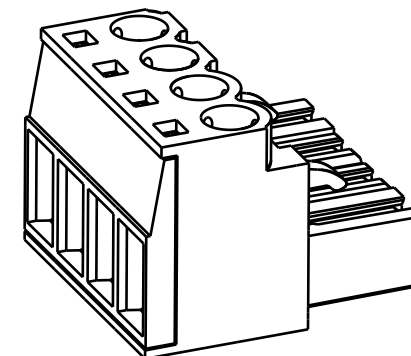
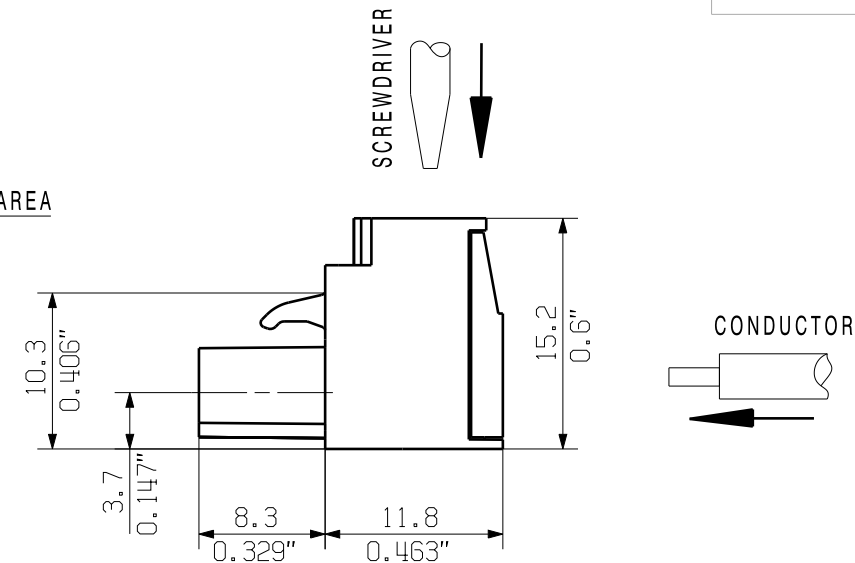
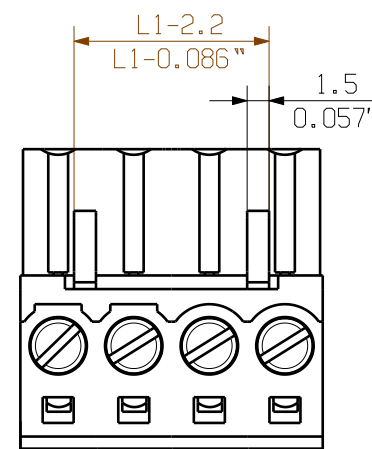
- 1) Without locking latches
- 2) Sum of ambient temperature and temperature rise
- 3) Referred to rated cross section and maximum pole number

n.a. = not applicable

Subject to technical changes



PRINTING AREA



24	115,00	4,531
23	110,00	4,334
22	105,00	4,137
21	100,00	3,940
20	95,00	3,743
19	90,00	3,546
18	85,00	3,349
17	80,00	3,152
16	75,00	2,955
15	70,00	2,758
14	65,00	2,561
13	60,00	2,364
12	55,00	2,167
11	50,00	1,970
10	45,00	1,773
9	40,00	1,576
8	35,00	1,379
7	30,00	1,182
6	25,00	0,985
5	20,00	0,788
4	15,00	0,591
3	10,00	0,394
2	5,00	0,197
n	L1 [mm]	L1 [Inch]

SHOWN: BLZ 5.00/4

 METRIC TOLERANCES: X. = ± 0.3 X.X = ± 0.1 X.XX = ± 0.05					CAT.NO.: . . .	
	43216/5 11.05.09 HELIS_MA	00			C 18227 28	DRAWING NO. SHEET 02 OF 06 SHEETS
	MODIFICATION					
		DATE	NAME	BLZ 5.00/.../ 180 (B) BUCHSENLEISTE SOCKET BLOCK		
	DRAWN	10.12.2007	HELIS_MA			
	RESPONSIBLE		HERTEL_S			
	CHECKED	13.05.2009	HECKERT_M			
SCALE: 2/1						
SUPERSEDES: .	APPROVED		HECKERT_M	PRODUCT FILE: BLZ 5.00		7146

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the connectors are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.