

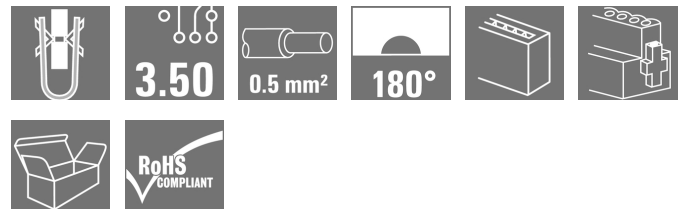
BLIDCB 3.50/03/-F SN OR BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

Similar to illustration

Female connectors for fast processing with insulation displacement connectors (IDC) for connecting wires at 3.50 pitch. They provide space for labelling and can be coded.

General ordering data

Version	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 3, 90°/270°, IDC terminal, Clamping range, max. : 0.5 mm², Box
Order No.	1751460000
Type	BLIDCB 3.50/03/-F SN OR BX
GTIN (EAN)	4032248174393
Qty.	10 pc(s).
Product data	IEC: 250 V / 6 A / 0.35 - 0.5 mm² UL: 300 V / 7 A / AWG 22 - AWG 20
Packaging	Box

Creation date March 25, 2021 2:35:51 AM CET

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Technical data**Dimensions and weights**

Depth	21.2 mm	Depth (inches)	0.835 inch
Height	12.5 mm	Height (inches)	0.492 inch
Net weight	4.9 g		

System Parameters

Product family	OMNIMATE Signal - series BL/SL 3.50		
Type of connection	Field connection		
Wire connection method	IDC terminal		
Pitch in mm (P)	3.5 mm		
Pitch in inches (P)	0.138 inch		
Conductor outlet direction	90°/270°		
Number of poles	3		
L1 in mm	7 mm		
L1 in inches	0.276 inch		
Number of rows	1		
Pin series quantity	1		
Rated cross-section	0.5 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		
Screwdriver blade	0.4 x 2.5		
Screwdriver blade standard	DIN 5264-A		
Plugging cycles	25		
Plugging force/pole, max.	7.5 N		
Pulling force/pole, max.	5.5 N		
Tightening torque	Torque type	Screw flange	
	Usage information	Tightening torque	min. 0.15 Nm max. 0.2 Nm

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	CuSn
Contact surface	tinned	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	80 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	80 °C		

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Technical data**Conductors suitable for connection**

Clamping range, min.	0.32 mm ²	Clamping range, max.	0.5 mm ²
Wire connection cross section AWG, min.	AWG 22	Wire connection cross section AWG, max.	AWG 20
Solid, min. H05(07) V-U	0.35 mm ²	Solid, max. H05(07) V-U	0.5 mm ²
Flexible, min. H05(07) V-K	0.35 mm ²	Flexible, max. H05(07) V-K	0.5 mm ²
Outer diameter of insulation, max.	2.1 mm		
		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)	6 A
Rated current, max. number of poles (Tu=20°C)	6 A	Rated current, min. number of poles (Tu=40°C)	6 A
Rated current, max. number of poles (Tu=40°C)	5 A	Rated voltage for surge voltage class / pollution degree II/2	250 V
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated voltage for surge voltage class / pollution degree III/3	160 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV	Short-time withstand current resistance	3 x 1s with 60 A

Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	200039-1068660
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	7 A	Rated current (Use group D / CSA)	7 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 20
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)	7 A	Rated current (Use group D / UL 1059)	7 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 20
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

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Technical data**Packing**

Packaging	Box	VPE length	35 mm
VPE width	70 mm	VPE height	90 mm

Type tests

Test: Durability of markings	Standard	draft DIN VDE 0627 section 6.2.2 / 09.91
	Test	mark of origin, type identification, type of material
	Evaluation	available
	Test	durability
	Evaluation	passed

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

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.
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Notes	• Additional colours on request • Rated current related to rated cross-section & min. No. of poles. • For IDC contact 0.5: cable acc. to DIN EN 60352-4 • AWG conductor: solid, 7 or 19 strands only • Temperature range -20 to +80 °C • BLIDC 3.5 and BLIDCB 3.5 conductors "solid"/"flexible" to DIN 47726 • 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
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Approvals

Approvals



ROHS	Conform
UL File Number Search	E60693

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Technical data

Downloads

Approval/Certificate/Document of
Conformity

[Declaration of the Manufacturer](#)

Engineering Data

[STEP](#)

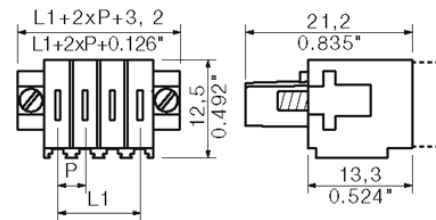
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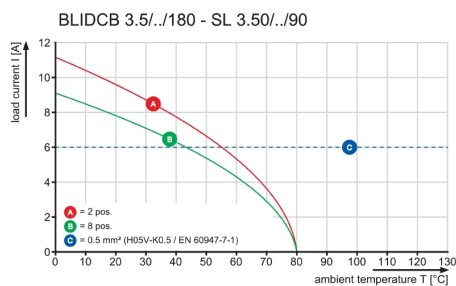
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Drawings

Dimensional drawing



Graph



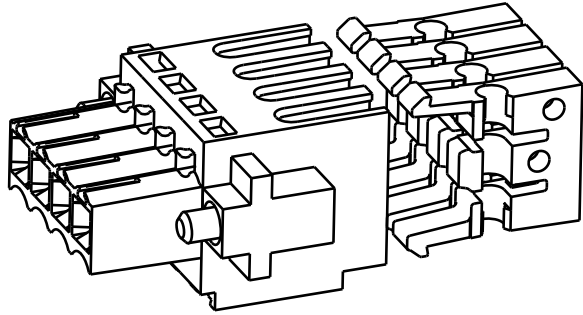
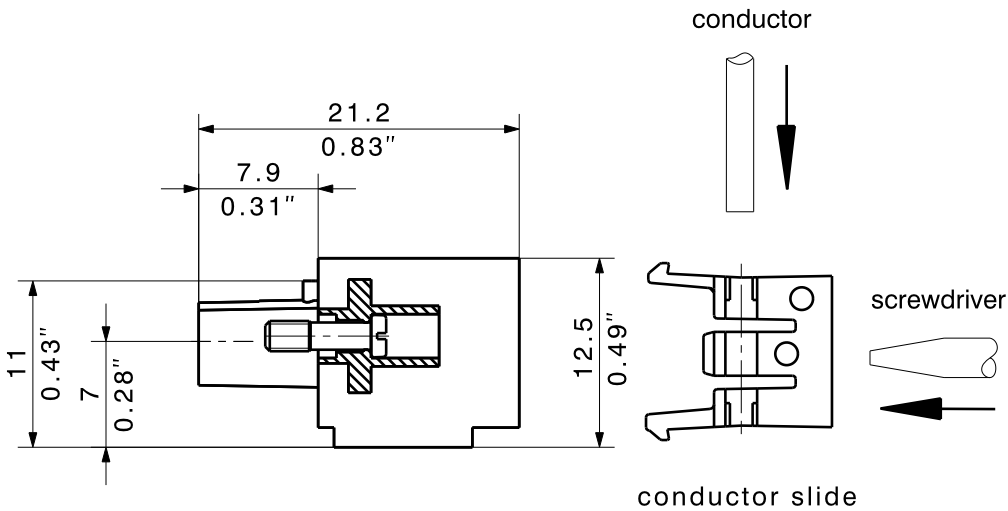
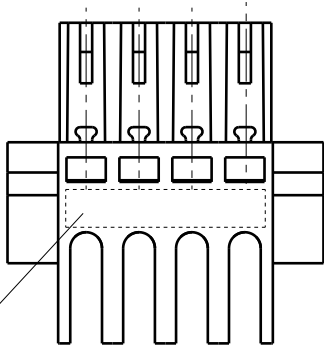
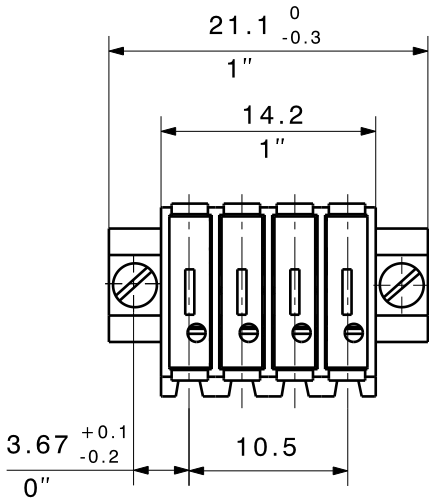
Technical Data

Rev.		Material data	
		Insulation material type	PBT
		Insulation material colours	orange
		Insulation material flammability class	UL94 V-0
		Insulation resistance	MOhm >10 ⁵
		Contact base material	Cu-alloy
		Contact plating	tin plated
		System characteristic values	
		with counterpart	
		Pitch P	mm/inch 3.5/0.138
		Number of rows	1
		Dielectric strength (r.m.s withstand voltage)	kV >1.39
		Mechanical operating cycles	acc. to IEC 512 >50
		Plug in force (max.)	N/pole 10 1)
		Pull out force (max.)	N/pole 10 1)
		Through resistance (typical)	mOhm <5,0
		Operating temperature range	°C -20... +80 2)
		Degree of protection acc. to VDE 0106 (plugged/unplugged)	finger safe/back of hands
		Degree of protection acc. to DIN EN 60529 (plugged/unplugged)	IP20/IP10
		Conductor connection method	IDC connection
		Screw size	n.a.
		Screw torque max. acc. to EN 60999	Nm n.a.
		Screw driver type	0.4 x 2.5
		Application notes	
		Coding possibility	yes/no yes (accessory)
		Joinable without loss of pitch	yes/no yes
		Manual assembly of modules	yes/no no
		Max. number of poles	n 12
		Conductor	
		Clamping range	mm ² 0.35 ... 0.5
		"e" solid H05(07) V-U	mm ² 0.5
		"f" flexible H05(07) V-K	mm ² 0.5
		"f" with ferrule acc. to DIN 46228/1	mm ² n.a.
		... with plastic collar acc. to DIN 46228/4	mm ² n.a.
		Conductor insulation stripping length	mm/inch n.a.
		Conductor insulation diameter max.	mm/inch 2.1
		Two wire clamping range	mm ² n.a.
		Gauge to EN 60999 (a x b ; Ø)	mm n.a.
		IEC 664-1 / VDE0110 (4.97) rated data	
		Rated cross section acc. to EN 60999	mm ² 0.5
		Rated current @ 20°C ambient (together with)	A 6 (SL 3.5) 3)
		Rated current @ 40°C ambient (together with)	A 6 (SL 3.5) 3)
		Overvoltage category / Pollution degree	
		Rated voltage	V III/3 III/2 II/2 160 250 320
		Rated impulse voltage	kV 2.5 2.5 2.5
		UL 1059 rated data	
		File No.: E60693	B C D
		Rated voltage	V 300
		Rated current	A 7
		AWG wire range (field wiring / factory wiring)	22 ... 20
		CSA C22.2 rated data	
		File No.: LR12400	B C D
		Rated voltage	V 300
		Rated current	A 7
		AWG wire range (field wiring / factory wiring)	22 ... 20
		Packaging	
			card box
		Downloads	
			www.weidmueller.de

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

n.a. = not applicable

Subject to technical changes



16	52,50	2,067
15	49,00	1,929
14	45,50	1,791
13	42,00	1,654
12	38,50	1,516
11	35,00	1,378
10	31,50	1,240
9	28,00	1,102
8	24,50	0,965
7	21,00	0,827
6	17,50	0,689
5	14,00	0,551
4	10,50	0,413
3	7,00	0,276
2	3,50	0,138
n	L1 [mm]	L1 [inch]

For the mounting of PCBs, it should be noted that the rated data stated here relates only to the PCB components alone.
The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.
The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application.
Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

shown: BLIDCB 3.5/4F

METRIC TOLERANCES:
X. = ±0.3
X.X = ±0.1
X.XX = ±0.05

③ :
② :
① :

MODIFICATION

METRIC/INCH DIMENSIONS

SCALE: 2:1

SUPERSEDES: .

SUPERSEDED BY: .

DRAWN

RESPONSIBLE

CHECKED

APPROVED

DATE

NAME

Lux

Lux

Phillips

Endres

17.12.02

17.12.02

25.09.03

26.09.03

Weidmüller

C 27649

DRAWING NO.

SHEET: 2 OF 2 SHEETS

0

ISSUE NO.

BLIDCB 3.5/2...12/F

Socket Block

PRODUCT FILE: BLIDCB 3.5

Customer Drawing