

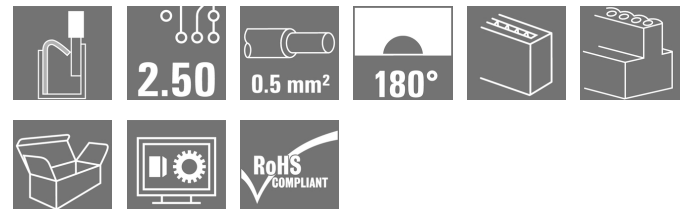
BLF 2.50/03/180 SN BK BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

Similar to illustration

PUSH IN - Weidmüller's innovative connection system simplifies the wire connection process.

The benefits for users and applications:

- High component density because of small pitch. Simply insert the prepared wire - and you're done
- Simplified processing, thanks to integrated push buttons for opening the terminal point
- Intuitive handling – since the conductor entry and handling areas are clearly separated

General ordering data

Version	PCB plug-in connector, female plug, Pitch in mm (P): 2.50 mm, Number of poles: 3, Box
Order No.	2439650000
Type	BLF 2.50/03/180 SN BK BX
GTIN (EAN)	4050118454628
Qty.	250 pc(s).
Product data	IEC: 320 V / 6 A / 0.08 - 0.5 mm ² UL: 150 V / 5 A / AWG 28 - AWG 20
Packaging	Box

Creation date September 17, 2022 10:26:40 PM CEST

BLF 2.50/03/180 SN BK BX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Dimensions and weights

Depth	19.2 mm	Depth (inches)	0.756 inch
Height	11.75 mm	Height (inches)	0.463 inch
Width	8.1 mm	Width (inches)	0.319 inch
Net weight	2.172 g		

System Parameters

Product family	OMNIMATE Signal - series BL/SL 2.50	Type of connection	Field connection
Wire connection method	PUSH IN with actuator, Tension-clamp connection	Pitch in mm (P)	2.5 mm
Pitch in inches (P)	0.098 inch	Conductor outlet direction	180°
Number of poles	3	L1 in mm	5 mm
L1 in inches	1.968 inch	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Touch-safe protection acc. to DIN VDE 0470	IP 20	Protection degree	IP20
Volume resistance	<10 mΩ	Stripping length	8 mm
Screwdriver blade standard	DIN 5264	Plugging cycles	25

Material data

Insulating material	PA	Colour	black
Colour chart (similar)	RAL 9011	Comparative Tracking Index (CTI)	≥ 600
UL 94 flammability rating	V-0	Contact material	Copper alloy
Contact surface	tinned	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-40 °C
Operating temperature, max.	105 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	105 °C		

Conductors suitable for connection

Clamping range, min.	0.08 mm ²	Clamping range, max.	0.5 mm ²
Wire connection cross section AWG, min.	AWG 28	Wire connection cross section AWG, max.	AWG 20
Solid, min. H05(07) V-U	0.08 mm ²	Solid, max. H05(07) V-U	0.5 mm ²
Stranded, min. H07V-R	0.08 mm ²	Stranded, max. H07V-R	0.5 mm ²
Flexible, min. H05(07) V-K	0.08 mm ²	Flexible, max. H05(07) V-K	0.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	0.34 mm ²
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.		

BLF 2.50/03/180 SN BK BX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Rated data acc. to IEC

tested acc. to standard	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)	6 A	Rated voltage for surge voltage class / pollution degree II/2	320 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	80 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		

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	150 V	Rated current (Use group B / CSA)	5 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 20

Packing

Packaging	Box	VPE length	360 mm
VPE width	115 mm	VPE height	110 mm

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
ETIM 8.0	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

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	- Rated current related to rated cross-section & min. No. of poles. - P on drawing = pitch - Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended. - 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	UL Website
Certificate No. (cURus)	E60693

Creation date September 17, 2022 10:26:40 PM CEST

Catalogue status 09.09.2022 / We reserve the right to make technical changes.

BLF 2.50/03/180 SN BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD
Catalogues	Catalogues in PDF-format
Brochures	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FL INDUSTR.CONTROLS EN FL MACHINE SAFETY EN FL HEATING ELECTR EN FL APPL INVERTER EN FL_BASE_STATION_EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN

BLF 2.50/03/180 SN BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings

Product image

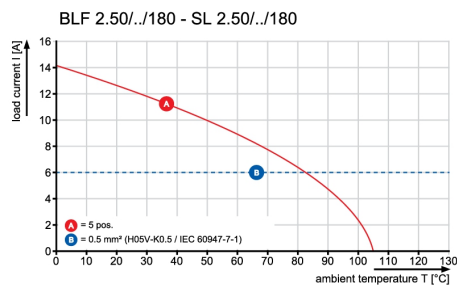


Similar to illustration

Dimensional drawing



Graph

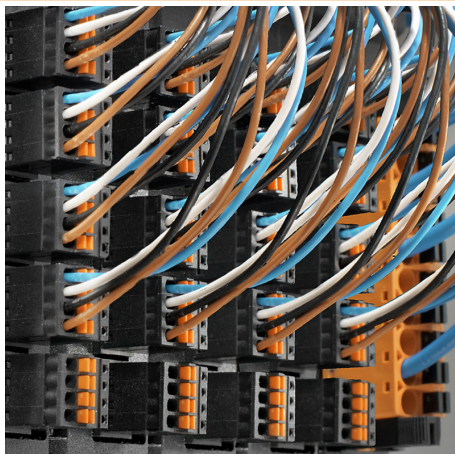


Product benefits



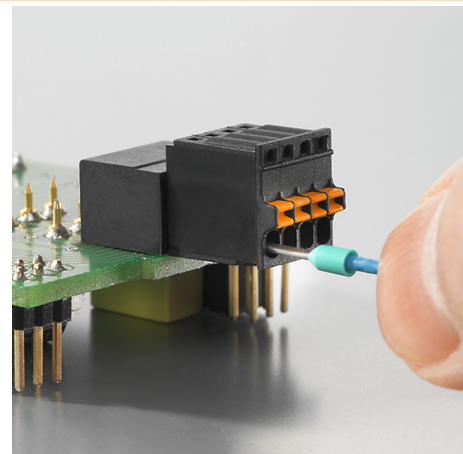
Flexible application
Outlet direction: 90° and 180°

Product benefits



High component density
Small and compact pitch

Product benefits



PUSH IN connection up to 0.5 mm²
Reliable and space-saving

BLF 2.50/03/180 SN BK BX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Drawings

Product benefits

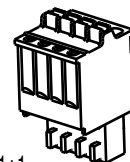


Operating safety
Through PUSH IN connection system

DIE DEUTSCHE VERSION IST VERBINDLICH
THE GERMAN VERSION IS BINDING



Diagram illustrating the direction of the screwdriver and conductor. The screwdriver is shown pointing towards the right, and the conductor is shown pointing towards the left.



1:1

SHOWN: BLF 2.50/04/180

P= 2.50mm RASTER
0,098" PITCH

n = POLZAHL/NO OF POLS

$$L1 = (n-1) \times P$$

12	27,50	1,083
11	25,00	0,984
10	22,50	0,886
9	20,00	0,787
8	17,50	0,689
7	15,00	0,591
6	12,50	0,492
5	10,00	0,394
4	7,50	0,295
3	5,00	0,197
2	2,50	0,098
n	L1 [mm]	L [Inch]

Weidmüller 

CAT.NO.: .

C 63331

00

DRAWING NO.

ISSUE NO.

SHEET 00

OF 00 SHEETS

SHEETS



	DATE	NAME
--	------	------

DRAWN	18.02.2016	AMANN A
-------	------------	---------

RESPONSIBLE		AMANN A
-------------	--	---------

CHECKED	02.03.2016	HELIS MA
---------	------------	----------

APPROVED

BLF 2.50/02-12/180..
BUCHSENSTECKER
FEMALE PLUG

SCALE: 2:1

SUPERSEDES: .

PRODUCT FILE: SL/BLF 2.50

7414



WEITERGABE SOWIE Vervielfältigung dieses Dokuments, Verwertung und Mitteilung seines Inhalts sind verboten, soweit nicht ausdrücklich gestattet. Zuwiderhandlungen verpflichten zu Schadenersatz. Alle Rechte für den Fall der Patent-, Gebrauchsmuster- oder Geschmacksuntereintragung vorbehalten.

THE REPRODUCTION, DISTRIBUTION AND UTILIZATION OF THIS DOCUMENT AS WELL AS THE COMMUNICATION OF ITS CONTENTS TO OTHERS WITHOUT EXPLICIT AUTHORIZATION IS PROHIBITED. OFFENDERS WILL BE HELD LIABLE FOR THE PAYMENT OF DAMAGES. WEIDMUELLER EXCLUSIVELY RESERVES THE RIGHT TO FILE FOR PATENTS, UTILITY MODELS OR DESIGNS.

 WEIDMUELLER INTERFACE GmbH & Co.KG