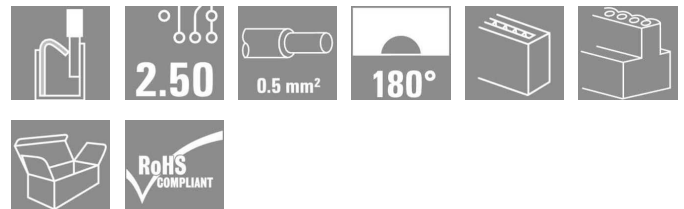


OMNIMATE Signal - series BL/SL 2.50 BLF 2.50/04/180 SN BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com



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

Type	BLF 2.50/04/180 SN BK BX
Order No.	2439670000
Version	PCB plug-in connector, female plug, Pitch in mm (P): 2.50 mm, No. of poles: 4, Box
GTIN (EAN)	4050118454741
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

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Technical data
Dimensions and weights

Net weight 2.76 g

System parameters

Product family	OMNIMATE Signal - series BL/SL 2.50	Type of connection	PUSH IN direct insertion
Wire connection method	PUSH IN	Pitch in mm (P)	2.5 mm
Pitch in inches (P)	0.984 inch	Conductor outlet direction	180°
No. of poles	4	L1 in mm	7.5 mm
L1 in inches	2.952 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	Volume resistance	< 10 mΩ
Stripping length	8 mm	Screwdriver blade standard	DIN 5264
Plugging cycles	25	Packaging	Box

Material data

Insulating material	PA	Colour	Black
Colour chart (similar)	RAL 9011	CTI	≥ 600
UL 94 flammability rating	V-0	Contact material	Cu-Leg
Contact surface	tinned	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, rated connection, min.	0.08 mm ²	Clamping range, rated connection, 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

Rated data acc. to IEC

tested acc. to standard	IEC 61984	Rated current, min. no. of poles (Ta = 20°C)	6 A
Rated current, max. no. of poles (Ta = 20°C)	6 A	Rated current, min. no. of poles (Ta = 40°C)	6 A
Rated current, max. no. of poles (Ta = 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)	150 V	Rated current (use group B)	5 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 20


Data sheet

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Technical data

Rated data acc. to UL 1059

Institute (cURus)			Certificate No. (cURus)	E60693
Rated voltage (use group B)	150 V	Rated current (use group B)	5 A	
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 20	
Reference to approval values	Specifications are maximum values, details - see approval certificate.			

Classifications

ETIM 6.0	EC002637	eClass 6.2	27-26-07-04
eClass 9.1	27-44-04-02		

Notes

Notes	<ul style="list-style-type: none"> • 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.
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IPC conformity	The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.
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Approvals

Approvals	
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Downloads

Safety notice	Safety indication
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Drawings

