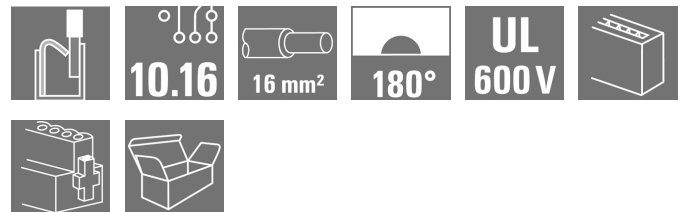


**OMNIMATE Power - series BU/SU 10.16  
BUF 10.16IT/04/180F AG BK BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Product image**

Device connectivity | OMNIMATE® Power BUF 10.16  
 PUSH IN PCB connector, 16mm<sup>2</sup>, with wire-ready  
 function

- PUSH IN technology with settable wire-ready contact point simplifies the connection of stranded wires without wire-end ferrules and wires with particularly rigid insulation
- Direct and tool-free connection of solid wires and wires with crimped wire-end ferrules for fast and safe wiring
- Single-hand operation of the plug-in connector and automatic connection thanks to the middle flange with snap-on mechanism and optionally with additional screw fastening

**General ordering data**

Type	BUF 10.16IT/04/180F AG BK BX
Order No.	<a href="#">2493320000</a>
Version	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 4, 180°, PUSH IN with actuator, Clamping range, max.: 16 mm <sup>2</sup> , Box
GTIN (EAN)	4050118503104
Qty.	20 pc(s).
Product data	IEC: 1000 V / 76 A / 2.5 - 16 mm <sup>2</sup> UL:
Packaging	Box

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**Technical data****Dimensions and weights**

Net weight	14 g
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**system parameters**

Product family		Type of connection	
OMNIMATE Power - series BU/SU 10.16		Field connection	
Wire connection method	PUSH IN with actuator	Pitch in mm (P)	10.16 mm
Pitch in inches (P)	0.4 inch	Conductor outlet direction	180°
No. of poles	4	L1 in mm	30.48 mm
L1 in inches	1.2 inch	Number of rows	1
Pin series quantity	1	Rated cross-section	16 mm <sup>2</sup>
Touch-safe protection acc. to DIN VDE 57 106		Touch-safe protection acc. to DIN VDE 0470	
Safe from finger touch		IP 20	
Can be coded	Yes	Stripping length	18 mm
Actuating force actuating element, max.	120 N	Screwdriver blade	0.8 x 4.0
Screwdriver blade standard	DIN 5264	Plugging cycles	25
Plugging force/pole, max.	15 N	Pulling force/pole, max.	15 N

**Material data**

Insulating material	PA GF	Colour	black
Colour of operational elements	red, grey	Material of operational elements	PA 66/6, PBT
Colour chart (similar)	RAL 9011	Insulating material group	II
CTI	≥ 400	Insulation strength	≥ 10 <sup>8</sup> Ω
UL 94 flammability rating	V-0	GWFI	960 °C
Contact material	Copper alloy	Contact surface	silver-plated
Layer structure of plug contact	3- μm Ag	Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C	Max. relative humidity during storage	80 %
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C

**Conductors suitable for connection**

Clamping range, min.	2.5 mm <sup>2</sup>
Clamping range, max.	16 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 12
Wire connection cross section AWG, max.	AWG 4
Solid, min. H05(07) V-U	2.5 mm <sup>2</sup>
Solid, max. H05(07) V-U	10 mm <sup>2</sup>
Stranded, min. H07V-R	10 mm <sup>2</sup>
Stranded, max. H07V-R	16 mm <sup>2</sup>
Flexible, min. H05(07) V-K	2.5 mm <sup>2</sup>
Flexible, max. H05(07) V-K	16 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm <sup>2</sup> min.	
w. plastic collar ferrule, DIN 46228 pt 4, 16 mm <sup>2</sup> max.	
w. wire end ferrule, DIN 46228 pt 1, min 2.5 mm <sup>2</sup>	
w. wire end ferrule, DIN 46228 pt 1, 16 mm <sup>2</sup> max.	

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**Technical data**

Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	2.5 mm <sup>2</sup>
	AEH	Stripping length	nominal 20 mm
		Stripping length	nominal 18 mm
	Cross-section for conductor connection	Type	fine-wired
		nominal	4 mm <sup>2</sup>
	AEH	Stripping length	nominal 20 mm
		Stripping length	nominal 18 mm
	Cross-section for conductor connection	Type	fine-wired
		nominal	6 mm <sup>2</sup>
AEH	Stripping length	nominal 20 mm	
	Stripping length	nominal 18 mm	
Cross-section for conductor connection	Type	fine-wired	
	nominal	10 mm <sup>2</sup>	
AEH	Stripping length	nominal 21 mm	
	Stripping length	nominal 18 mm	
Cross-section for conductor connection	Type	fine-wired	
	nominal	16 mm <sup>2</sup>	
AEH	Stripping length	nominal 21 mm	
	Stripping length	nominal 18 mm	

Max. clamping range 16 mm<sup>2</sup>

**Rated data acc. to IEC**

Rated current, min. no. of poles (Tu=20°C)	76 A	Rated current, max. no. of poles (Tu=20°C)	71 A
Rated current, min. no. of poles (Tu=40°C)	70 A	Rated current, max. no. of poles (Tu=40°C)	62 A
Rated voltage for surge voltage class / pollution degree II/2	1,000 V	Rated voltage for surge voltage class / pollution degree III/2	1,000 V
Rated voltage for surge voltage class / pollution degree III/3	1,000 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	8 kV
Rated impulse voltage for surge voltage class/ pollution degree III/2	8 kV	Rated impulse voltage for surge voltage class/ contamination degree III/3	8 kV
Short-time withstand current resistance 3 x 1s with 800A			

**Packing**

Packaging	Box	VPE length	0 m
VPE width	0 m	VPE height	0 m

**Classifications**

ETIM 3.0	EC001284	ETIM 4.0	EC002637
ETIM 5.0	EC002637	ETIM 6.0	EC002637
eClass 6.2	27-26-07-04	eClass 9.0	27-44-04-02
eClass 9.1	27-44-04-02		

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# Technical data

### Notes

- |       |   |
|-------|---|
| Notes | <ul style="list-style-type: none"> <li>• Additional colours on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Wire end ferrule with plastic collar to DIN 46228/4</li> <li>• Wire end ferrule without plastic collar to DIN 46228/1</li> <li>• P on drawing = pitch</li> <li>• 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.</li> <li>• For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.</li> </ul> |
|-------|---|

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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### Downloads

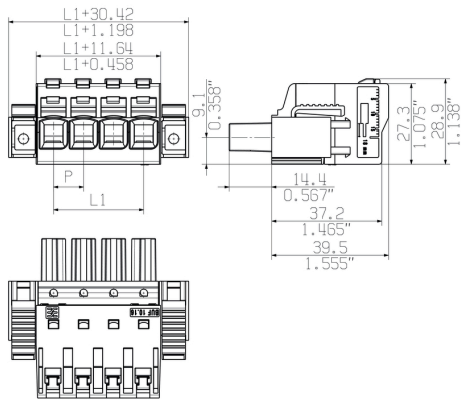
Engineering Data	<a href="#">STEP</a>
Motion controllers white paper	<a href="#">Download Whitepaper</a>
User Documentation	<a href="#">Assembly instructions PUSH IN connector with actuator –BUF 10.16 IT</a> <a href="#">Operating Instruction BUF</a> <a href="#">QR-Code product handling video</a>
White Paper UL 600 V	<a href="#">Download Whitepaper</a>
White Paper wire connection	<a href="#">Download Whitepaper</a>

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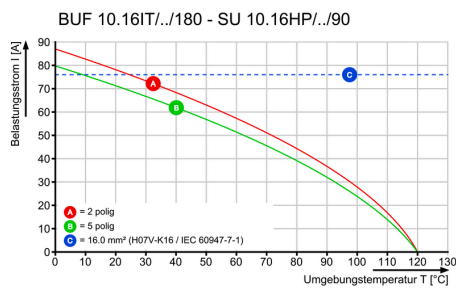
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**Drawings**

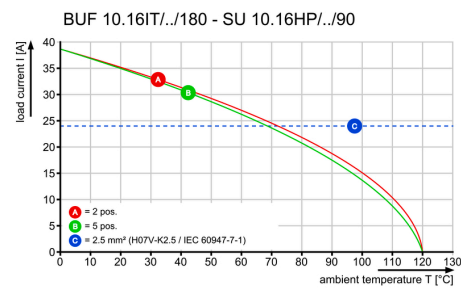
**Dimensional drawing**



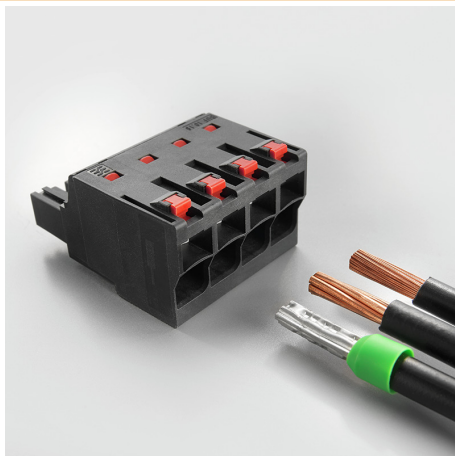
**Graph**



**Graph**

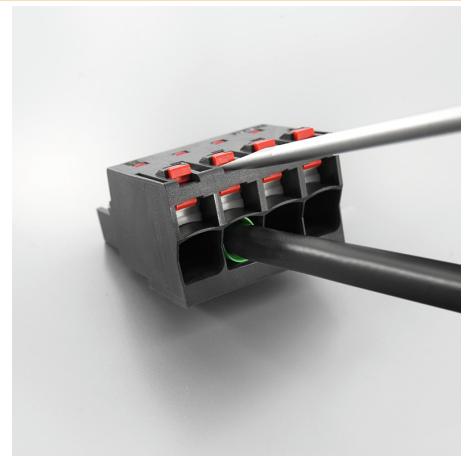


**Product benefits**



Easy connection of conductors  
WIRE READY

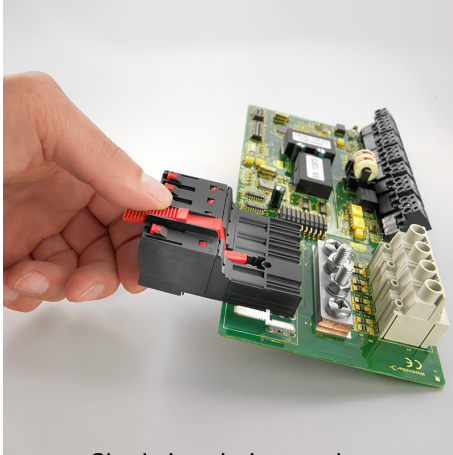
**Product benefits**



Quick wiring

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**Product benefits**

Single-handed operation  
Automatic latching