



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com













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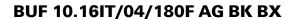
Device connectivity | OMNIMATE® Power BUF 10.16 PUSH IN PCB connector, 16mm², with wire-ready function

- 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

Version	PCB plug-in connector, female plug, 10.16 mm, Number of poles: 4, 180°, PUSH IN with actuator, Clamping range, max. : 16 mm², Box
Order No.	<u>2493320000</u>
Туре	BUF 10.16IT/04/180F AG BK BX
GTIN (EAN)	4050118503104
Qty.	20 items
Product data	IEC: 1000 V / 76 A / 2.5 - 16 mm ² UL: 600 V / 51 A / AWG 12 - AWG 6
Packaging	Вох







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Technical data

Approval	s
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Approvals	c FL *us
ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (cURus)	E60693

Dimensions and weights

Depth	39.5 mm	Depth (inches)	1.5551 inch
Height	28.9 mm	Height (inches)	1.1378 inch
Width	60.96 mm	Width (inches)	2.4 inch
Net weight	14 g		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	

System Parameters

Product family	OMNIMATE Power - series BU/SU 10.16	Type of connection	Field connection
Wire connection method	PUSH IN with actuator	Pitch in mm (P)	10.16 mm
Pitch in inches (P)	0.400 "	Conductor outlet direction	180°
Number of poles	4	L1 in mm	30.48 mm
L1 in inches	1.200 "	Number of rows	1
Pin series quantity	1	Rated cross-section	16 mm²
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	Can be coded	Yes
Stripping length	18 mm	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 chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 400	Insulation resistance	≥ 108 Ω
Moisture Level (MSL)		UL 94 flammability rating	V-0
Contact material	Cu-alloy	Contact surface	silver-plated
Layer structure of plug contact	≥ 3 µm Ag	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	120 °C		

Conductors suitable for connection

Clamping range, min.	2.5 mm ²
Clamping range, max.	16 mm ²
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 ²
Solid, max. H05(07) V-U	10 mm ²

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Stranded, min. H07V-R	10 mm²		
Stranded, max. H07V-R	16 mm²		
Flexible, min. H05(07) V-K	2.5 mm ²		
Flexible, max. H05(07) V-K	16 mm²		
w. plastic collar ferrule, DIN 4622			
min.	.ο ρι 4, 2.5 mm²		
w. plastic collar ferrule, DIN 4622	8 nt 4 16 mm ²		
max.	ο ρι 4, το πιπ		
w. wire end ferrule, DIN 46228 pt	t 1. 2.5 mm²		
min.	•		
w. wire end ferrule, DIN 46228 pt	t 1, 16 mm²		
max.			
Clampable conductor	Cross-section for conductor connection	Type fine-wired	
		nominal 2.5 mm ²	
	wire end ferrule	Stripping length nominal 20	mm
		Recommended wire- H2,5/25D BL	
		end ferrule	
		Stripping length nominal 18	mm
		Recommended wire- H2,5/18 end ferrule	
	Cross-section for conductor connection	Type fine-wired	
		nominal 4 mm ²	
	wire end ferrule	Stripping length nominal 20	mm
		Recommended wire- H4,0/26D GR end ferrule	
		Stripping length nominal 18	mm
		Recommended wire- H4.0/18 end ferrule	
	Cross-section for conductor connection	Type fine-wired	
		nominal 6 mm ²	
	wire end ferrule	Stripping length nominal 20	mm
		Recommended wire- H6,0/26 SW	
		end ferrule	
		Stripping length nominal 18	mm
		Recommended wire- H6,0/18 end ferrule	
	Cross-section for conductor connection	Type fine-wired	
		nominal 10 mm ²	
	wire end ferrule	Stripping length nominal 21	mm
		Recommended wire- H10,0/28 EB end ferrule	
			mm
		Recommended wire- H10,0/18 end ferrule	
	Cross-section for conductor connection	Type fine-wired	
		nominal 16 mm ²	
	wire end ferrule		mm
		Recommended wire- end ferrule	
			mm
		Recommended wire- H16,0/18	
		and formula	

Rated data acc. to IEC

Reference text

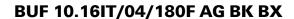
Rated current, min. number of poles (Tu=20°C)	76 A	Rated current, max. number of poles (Tu=20°C)	71 A
Rated current, min. number of poles (Tu=40°C)	70 A	Rated current, max. number of poles (Tu=40°C)	62 A

Length of ferrules is to be chosen depending on the product and the rated voltage.

end ferrule

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Rated voltage for surge voltage class / 1000 V pollution degree II/2	Rated voltage for surge voltage class / 1000 V pollution degree III/2
Rated voltage for surge voltage class / 1000 V pollution degree III/3	Rated impulse voltage for surge voltage 8 kV class/ pollution degree II/2
Rated impulse voltage for surge voltage 8 kV class/ pollution degree III/2	Rated impulse voltage for surge voltage 8 kV class/ contamination degree III/3
Short-time withstand current resistance 3 x 1s with 800A	

Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	600 V	Rated voltage (Use group C / UL 1059)	600 V
Rated current (Use group B / UL 1059)	51 A	Rated current (Use group C / UL 1059)	51 A
Wire cross-section, AWG, min.	AWG 12	Wire cross-section, AWG, max.	AWG 6
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	356.00 mm
VPE width	186.00 mm	VPE height	75.00 mm

Type tests

Test: Durability of markings	Standard	IEC 60068-2-70 / 12.95		
	Test	mark of origin, type identification, pitch, durability, stripping length		
	Evaluation	available		
Test: Clampable cross section	Standard	IEC 60999-1:1999-11 section 9.1, IEC 60947-1:2011-03 section 8.2.4.5.1		
	Conductor type	Type of conductor stranded 2.5 mm ² and conductor cross-section		
		Type of conductor solid 2.5 mm ² and conductor cross-section		
		Type of conductor stranded 16 mm ² and conductor cross-section		
		Type of conductor solid 10 mm ² and conductor cross-section		
		Type of conductor AWG 12/1 and conductor cross-section		
		Type of conductor AWG 12/19 and conductor cross-section		
		Type of conductor AWG 4/1 and conductor cross-section		
		Type of conductor AWG 4/19 and conductor cross-section		
	Evaluation	passed		
Test for damage to and accidental loosening of conductors	Standard	IEC 60999-1:1999-11 section 9.4 bzw. section 8.10		
	Requirement	0.7 kg		
	Conductor type	Type of conductor H07V-K2.5 and conductor cross-section		

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		Type of conductor H07V-U2.5 and conductor cross-section
		Type of conductor AWG 14/1 and conductor cross-section
		Type of conductor AWG 14/19 and conductor cross-section
	Evaluation	passed
	Requirement	2.9 kg
	Conductor type	Type of conductor H07V-K16 and conductor cross-section
		Type of conductor H07V-U16 and conductor cross-section
	Evaluation	passed
	Requirement	4,5 kg
	Conductor type	Type of conductor AWG 4/7 and conductor cross-section
		Type of conductor AWG 4/19 and conductor cross-section
ull-out test	Standard	IEC 60999-1:1999-11 section 9.5
	Requirement	≥50 N
	Conductor type	Type of conductor AWG 14/1 and conductor cross-section
		Type of conductor AWG 14/19 and conductor cross-section
		Type of conductor H07V-K2.5 and conductor cross-section
		Type of conductor H07V-U2.5 and conductor cross-section
	Evaluation	passed
	Requirement	≥100 N
	Conductor type	Type of conductor H07V-K16 and conductor cross-section
		Type of conductor H07V-U16 and conductor cross-section
	Evaluation	passed
	Requirement	≥ 135 N
	Conductor type	Type of conductor AWG 4/7 and conductor cross-section
		Type of conductor AWG4/19 and conductor cross-section
	Evaluation	passed

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 variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- 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.
- 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.
- In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	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
ECLASS 13.0	27-46-02-02	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		



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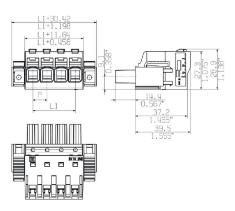
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Drawings

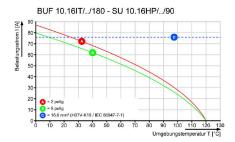
Product image

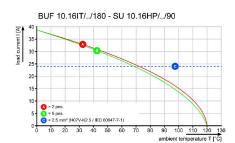


Dimensional drawing



Graph Graph





Product benefits



Easy connection of conductorsWIRE READY

Product benefits



Quick wiring



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Drawings

Product benefits



Single-handed operationAutomatic latching