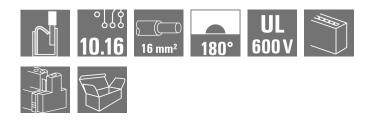


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Product image





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

Including pre-assembled pluggable shield connection for large area shielding in your application.

Directly during the plug-in process itself, the shield connection is attached vibration-proof to the contact area of the metal housing.

General ordering data

Туре	BUF 10.16IT/04/180MF3SH180 AG BK BX
Order No.	<u>2627740000</u>
Version	PCB plug-in connector, female plug, 10.16 mm, Number of poles: 4, 180°, PUSH IN with actuator, Clamping range, max. : 16 mm²
GTIN (EAN)	4050118631739
Qty.	20 pc(s).
Product data	IEC: 1000 V / 76 A / 2.5 - 16 mm² UL: 600 V / 34 A / AWG 12 - AWG 6

Technical data

Dimensions and weights

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Net weight	0 g		
System Parameters			
Product family	OMNIMATE Power - series	Type of connection	
	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)	0.4 inch	Conductor outlet direction	180°
Number of poles	4	L1 in mm	40.64 mm
L1 in inches	1.6 inch	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		Can be coded	Ū
0470	IP 20		Yes
Stripping length	18 mm	Actuating force actuating element, max	. 12 <mark>0 N</mark>
Screwdriver blade	0.8 x 4.0	Screwdriver blade standard	DIN 5264
Plugging cycles	≤ 50	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	1
Comparative Tracking Index (CTI)	≥ 400	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	GWFI	960 °C
Contact material	Copper alloy	Layer structure of plug contact	3- µm Ag
Storage temperature, min.	-25 °C	Storage temperature, max.	50 °C
Max. relative humidity during storage	70 %	Operating temperature, min.	-50 °C
Operating temperature, max.	120 °C		
Conductors suitable for conne	ection		
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		
Stranded, min. H07V-R	10 mm ²		
Stranded, max. H07V-R	16 mm ²		
Flexible, min. H05(07) V-K	2.5 mm ²		
Flexible, max. H05(07) V-K	16 mm²		
w. plastic collar ferrule, DIN 46228 pt 4 min.			
w. plastic collar ferrule, DIN 46228 pt 4 max.			
w. wire end ferrule, DIN 46228 pt 1, min.	2.5 mm ²		
w. wire end ferrule, DIN 46228 pt 1, max.	16 mm²		

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Technical data

Clampable conductor



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Cross-section for conductor connection	Туре	fine-wired
	nominal	2.5 mm ²
wire end ferrule	Stripping length	nominal 20 mm
	Recommended wire- end ferrule	<u>H2,5/25D BL</u>
	Stripping length	nominal 18 mm
	Recommended wire- end ferrule	<u>H2,5/18</u>
Cross-section for conductor connection	Туре	fine-wired
	nominal	4 mm ²
wire end ferrule	Stripping length	nominal 20 mm
	Recommended wire- end ferrule	<u>H4,0/26D GR</u>
	Stripping length	nominal 18 mm
	Recommended wire- end ferrule	<u>H4,0/18</u>
Cross-section for conductor connection	Туре	fine-wired
	nominal	6 mm²
wire end ferrule	Stripping length	nominal 20 mm
	Recommended wire- end ferrule	<u>H6,0/26 SW</u>
	Stripping length	nominal 18 mm
	Recommended wire- end ferrule	<u>H6,0/18</u>
Cross-section for conductor connection	Туре	fine-wired
	nominal	10 mm ²
wire end ferrule	Stripping length	nominal 21 mm
	Recommended wire- end ferrule	<u>H10,0/28 EB</u>
	Stripping length	nominal 18 mm
	Recommended wire- end ferrule	<u>H10,0/18</u>
Cross-section for conductor connection	Туре	fine-wired
	nominal	16 mm ²
wire end ferrule	Stripping length	nominal 21 mm
	Recommended wire- end ferrule	<u>H16,0/28 GN</u>
	Stripping length	nominal 18 mm
	Recommended wire- end ferrule	<u>H16,0/18</u>
Length of ferrules is to be chosen depending or	n the product and the rate	d voltage.

Rated data acc. to IEC

Reference text Max. clamping range

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
Rated voltage for surge voltage class /	70 A	Rated voltage for surge voltage class /	02 A
pollution degree II/2	1,000 V	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	•	Rated impulse voltage for surge voltage	
class/ pollution degree III/2	8 kV	class/ contamination degree III/3	8 kV
Short-time withstand current resistance 3 x 1s with 800A			

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Technical data

Rated data acc. to UL 1059

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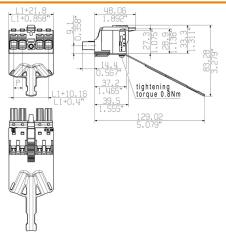
Institute (cURus)		Certificate No. (cURus)	
			E60693
Rated voltage (Use group B / UL 1059)	600 V	Rated voltage (Use group C / UL 1059)	600 V
Rated current (Use group B / UL 1059)		Rated current (Use group C / UL 1059)	
Wire cross-section, AWG, min.	AWG 12	Wire cross-section, AWG, max.	AWG 6
Reference to approval values	Specifications are		
	maximum values, details - see approval certificate.		
Packing			
VPE length	0	VPE width	0
VPE height	0		
Classifications			
ETIM 6.0	EC002637	ETIM 7.0	EC002637
eClass 9.0	27-44-04-02	eClass 9.1	27-44-04-02
eClass 10.0	27-44-04-02		27 44 04 02
Notes			
NOTES			
Notes	Additional colours 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 plas 	tic collar to DIN 46228/1	
	 P on drawing = pitch 		
		omponent itself. Clearance and creepage distan- vith the relevant application standards.	ces to other components are to
	 For all applications with flang self-tapping screw on the boat 	e we recommend to fix the pin header with the ard.	help of the soldering flange or a
IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized		
		ly with the assured properties in the data sheet Class 2". Further claims on the products can be	
Approvals			
A			
Approvals	c Ru s		
Downloads		·	
White paper power electronics	December (1) All 1		
connected correctly	Download Whitepaper		
White paper UL 600 V	Download Whitepaper		

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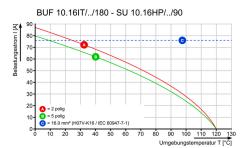
Catalogue status 17.04.2020 / We reserve the right to make technical changes.

Drawings

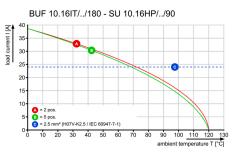
Dimensional drawing



Graph



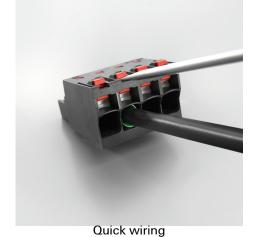
Graph



Product benefits



Product benefits



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Mating connector (fully pluggable)

SU 10.16IT 90MSF





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Male header with middle solder flange fastening in 10.16 pitch for 400-V IT systems according to IEC 61800-5-1. UL approval in compliance with UL840 (600 V) when using leading contact. When used together with the BUZ 10.16 IT, they comply with the expanded requirements for 5.5 mm of touch protection with IT systems (400 V relative to earth), according to IEC 61800-5-1. With its isolated pin tips, the mating profile ensures that more than 1 mm of touch safety is present (also without a socket block) with a finger pressure of 20 N. The middle-flange interlock feature decreases the space required by one pitch width when compared to other standard solutions.

Available on request with screw flange or without flange.

General ordering data

Туре	SU 10.16IT/04/90MSF3 3	Version	Product data
Order No	b. <u>2630170000</u>	PCB plug-in connector, male header, 10.16 mm, Number of poles: 4,	IEC: / 78.3 A
GTIN (EA	N) 4050118633849	Solder pin length (I): 3.5 mm, black	UL:
Qty.	36 pc(s).		

SU 10.16IT 270MSF



Male header with middle solder flange fastening in 10.16 pitch for 400-V IT systems according to IEC 61800-5-1. UL approval in compliance with UL840 (600 V) when using leading contact. When used together with the BUZ 10.16 IT, they comply with the expanded requirements for 5.5 mm of touch protection with IT systems (400 V relative to earth), according to IEC 61800-5-1. With its isolated pin tips, the mating profile ensures that more than 1 mm of touch safety is present (also without a socket block) with a finger pressure of 20 N. The middle-flange interlock feature decreases the space required by one pitch width when compared to other standard solutions.

Available on request with screw flange or without flange.

General ordering data

Туре	SU 10.16IT/04/270MSF3 3	Version	Product data
Order No.	2630240000	PCB plug-in connector, male header, 10.16 mm, Number of poles: 4,	IEC: / 78.3 A
GTIN (EAN)	4050118633917	Solder pin length (I): 3.5 mm, black	UL:
Qty.	36 pc(s).		

Accessories

Coding elements





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Only connects what is supposed to be connected: the right connection at the right place.

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery. Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

Туре	KO BU/SU10.16HP BK	Version	Product data	Packaging
Order No.	<u>1824410000</u>	PCB plug-in connector, Accessories, Coding element, black, Number		Box
GTIN (EAN)	4032248326716	of poles: 1		
Qty.	50 pc(s).			

Slotted screwdriver

Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

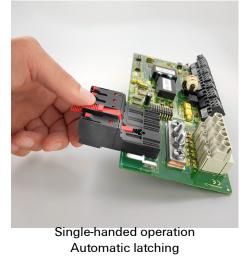


General ordering data

Туре	SDS 0.8X4.5X125	Version
Order No.	<u>9009020000</u>	Screwdriver, Blade width (B): 4.5 mm, Blade length: 125 mm, Blade
GTIN (EAN)	4032248266883	thickness (A): 0.8 mm
Qty.	1 pc(s).	

Drawings

Product benefits





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