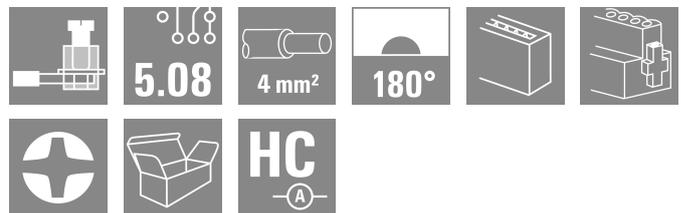


SP-BLZP 5.08 16P CLAMSHELL KIT

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

www.weidmueller.com

Product image



General ordering data

Version	PCB plug-in connector, Hood, female plug, 5.08 mm, Number of poles: 16, 180°, Clamping range, max. : 4 mm ² , Box
Order No.	2697690000
Type	SP-BLZP 5.08 16P CLAMSHELL KIT
GTIN (EAN)	4050118704464
Qty.	1 items
Product data	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 26 - AWG 12
Packaging	Box

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Technical data

Approvals

ROHS	Conform
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Dimensions and weights

Depth	18.5 mm	Depth (inches)	0.7283 inch
Height	72.4 mm	Height (inches)	2.8504 inch
Width	91.1 mm	Width (inches)	3.5866 inch
Net weight	90 g		

Environmental Product Compliance

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

System Parameters

Product family	OMNIMATE Signal - series BL/SL 5.08		
Pitch in mm (P)	5.08 mm		
Pitch in inches (P)	0.200 "		
Conductor outlet direction	180°		
Number of poles	16		
Number of rows	1		
Pin series quantity	2		
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch		
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged		
Protection degree	IP20		
Volume resistance	≤5 mΩ		
Can be coded	Yes		
Clamping screw	M 2.5		
Screwdriver blade	0.6 x 3.5, PH 1, PZ 1		
Screwdriver blade standard	DIN 5264, ISO 8764/2-PH, ISO 8764/2-PZ		
Screwdriver blade housing	T8		
Plugging force/pole, max.	10 N		
Pulling force/pole, max.	9 N		
Tightening torque	Torque type		Wire connection
	Usage information		Tightening torque
			min. 0.4 Nm max. 0.5 Nm
	Torque type		Screw flange
	Usage information		Tightening torque
			min. 0.2 Nm max. 0.25 Nm
	Torque type		Housing
	Usage information		Tightening torque
			min. 0.4 Nm max. 0.5 Nm

Material data

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Layer structure of plug contact	4...8 μm Sn hot-dip tinned
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	120 °C

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Conductors suitable for connection

Clamping range, min.	0.13 mm ²			
Clamping range, max.	4 mm ²			
Solid, min. H05(07) V-U	0.2 mm ²			
Solid, max. H05(07) V-U	4 mm ²			
Flexible, min. H05(07) V-K	0.2 mm ²			
Flexible, max. H05(07) V-K	4 mm ²			
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm ²			
w. plastic collar ferrule, DIN 46228 pt 4, max.	2.5 mm ²			
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm ²			
w. wire end ferrule, DIN 46228 pt 1, max.	4 mm ²			
Plug gauge in accordance with EN 60999 a x b; ø	2.8 mm x 2.4 mm			
Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	0.5 mm ²	
	wire end ferrule	Stripping length	nominal	6 mm
		Recommended wire-end ferrule	H0.5/6	
		Stripping length	nominal	8 mm
		Recommended wire-end ferrule	H0.5/12 OR	
	Cross-section for conductor connection	Type	fine-wired	
		nominal	1 mm ²	
	wire end ferrule	Stripping length	nominal	6 mm
		Recommended wire-end ferrule	H1.0/6	
		Stripping length	nominal	7 mm
	Cross-section for conductor connection	Type	fine-wired	
		nominal	1.5 mm ²	
	wire end ferrule	Stripping length	nominal	7 mm
		Recommended wire-end ferrule	H1.5/7	
		Stripping length	nominal	10 mm
	Cross-section for conductor connection	Type	fine-wired	
		nominal	2.5 mm ²	
	wire end ferrule	Stripping length	nominal	7 mm
		Recommended wire-end ferrule	H2.5/7	
Stripping length		nominal	10 mm	
Recommended wire-end ferrule		H2.5/15D BL		

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.

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	23 A
Rated current, max. number of poles (Tu=20°C)	18 A	Rated current, min. number of poles (Tu=40°C)	21 A
Rated current, max. number of poles (Tu=40°C)	16 A	Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	250 V

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Technical data

Rated impulse voltage for surge voltage class/ pollution degree II/2 4 kV

Rated impulse voltage for surge voltage class/ contamination degree III/3 4 kV

Rated impulse voltage for surge voltage class/ pollution degree III/2 4 kV

Short-time withstand current resistance 3 x 1s with 120 A

Rated data acc. to CSA

Rated voltage (Use group B / CSA) 300 V

Rated voltage (Use group D / CSA) 300 V

Rated current (Use group D / CSA) 20 A

Wire cross-section, AWG, max. AWG 12

Rated voltage (Use group C / CSA) 50 V

Rated current (Use group B / CSA) 20 A

Wire cross-section, AWG, min. AWG 30

Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059) 300 V

Rated current (Use group B / UL 1059) 20 A

Wire cross-section, AWG, min. AWG 26

Rated voltage (Use group D / UL 1059) 300 V

Rated current (Use group D / UL 1059) 10 A

Wire cross-section, AWG, max. AWG 12

Packing

Packaging Box VPE length 119.00 mm

VPE width 118.00 mm VPE height 49.00 mm

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.
 - Wire end ferrule without plastic collar to DIN 46228/1
 - Wire end ferrule with plastic collar to DIN 46228/4
 - 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.
 - 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 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		

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Drawings

Product image

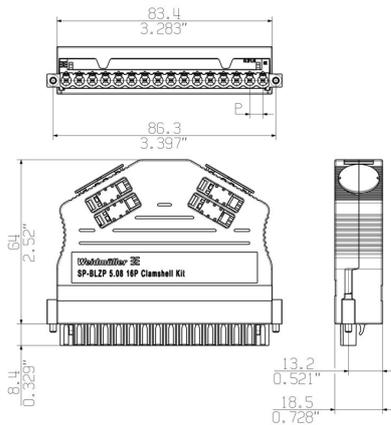


Product image

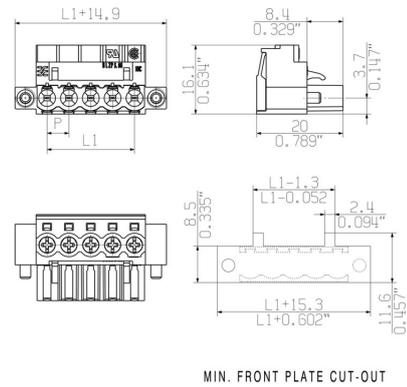


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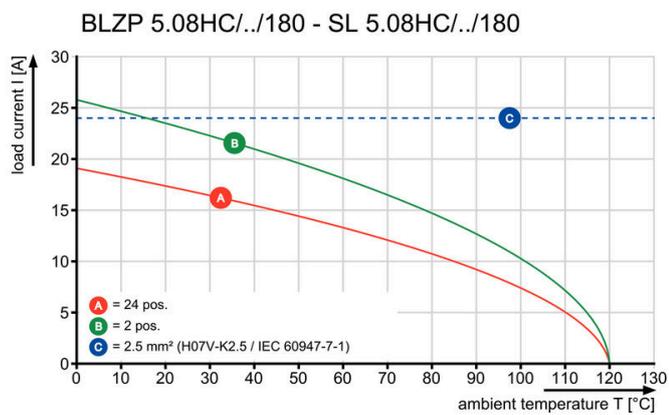
Dimensioned drawing



Dimensional drawing



Graph



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Drawings

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Example of use

