

**SHL-SMT 5.00/02GR 4.2RL**

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

[www.weidmueller.com](http://www.weidmueller.com)

**Product image**

High-temperature-resistant, straight, open pin header. Packed in box or tape. On tape and with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

**General ordering data**

Version	PCB plug-in connector, Connection element, right, male header, open side, THT/THR solder connection, 5.00 mm, Number of poles: 2, 90°, Solder pin length (l): 1.5 mm, tinned, black, Tape
Order No.	<a href="#">1069580000</a>
Type	SHL-SMT 5.00/02GR 4.2RL
GTIN (EAN)	4032248824687
Qty.	260 items
Product data	IEC: 400 V UL: 300 V / 9 A / AWG 26 - AWG 12
Packaging	Tape

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## Technical data

## Approvals

## Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate No. (cURus)	E60693

## Dimensions and weights

Depth	22 mm
Height	14.4 mm
Height of lowest version	6.2 mm
Width (inches)	0.4094 inch
Net weight	3.01 g

Depth (inches)	0.8661 inch
Height (inches)	0.5669 inch
Width	10.4 mm
Length	0 mm

## Environmental Product Compliance

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

## System Parameters

Product family	OMNIMATE Housing - series CH20M
Pitch in mm (P)	5.00 mm
Number of poles	2
L1 in inches	0.197 "
Pin series quantity	1
Volume resistance	≤5 mΩ

Type of connection	Board connection
Pitch in inches (P)	0.197 "
L1 in mm	5.00 mm
Number of rows	1
Protection degree	IP20
Can be coded	Yes

## Material data

Insulating material	LCP
Colour chart (similar)	RAL 9011
Comparative Tracking Index (CTI)	175 ≤ CTI <400
UL 94 flammability rating	V-0
Contact surface	tinned
Storage temperature, max.	70 °C
Operating temperature, max.	120 °C
Temperature range, installation, max.	120 °C

Colour	black
Insulating material group	IIIa
Moisture Level (MSL)	1
Contact material	Copper alloy
Storage temperature, min.	-40 °C
Operating temperature, min.	-40 °C
Temperature range, installation, min.	-30 °C

## Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984
Rated current, max. number of poles (Tu=40°C)	9 A
Rated voltage for surge voltage class / pollution degree III/2	320 V
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 current, max. number of poles (Tu=20°C)	10 A
Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/3	250 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV

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**Technical data****Rated data acc. to CSA**

Institute (CSA)	CSA	Certificate No. (CSA)	200039-70153051
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	50 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	9 A
Rated current (Use group C / CSA)	9 A	Rated current (Use group D / CSA)	9 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

**Rated data acc. to UL 1059**

Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	50 V
Rated voltage (Use group D / UL 1059)	300 V	Rated current (Use group B / UL 1059)	9 A
Rated current (Use group C / UL 1059)	9 A	Rated current (Use group D / UL 1059)	9 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

**Material data**

UL 94 flammability rating	V-0	Insulating material	LCP
Insulating material group	IIIa	Comparative Tracking Index (CTI)	175 ≤ CTI <400

**General data**

Colour	black	Protection degree	IP20
Colour chart (similar)	RAL 9011	Encapsulation option	No

**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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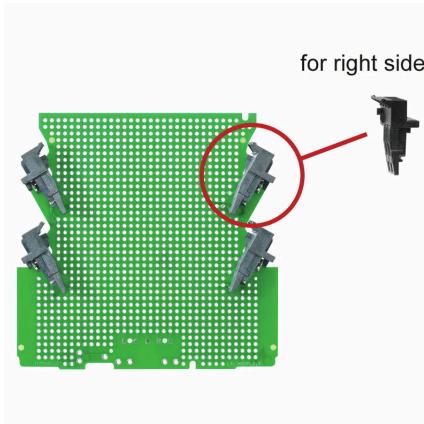
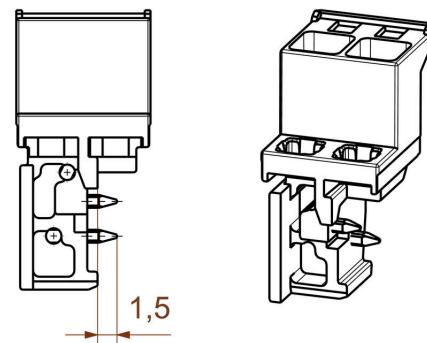
**Classifications**

ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

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**Drawings****Example of use****Dimensioned drawing****Example of use**

delivery

**Example of use**

delivery

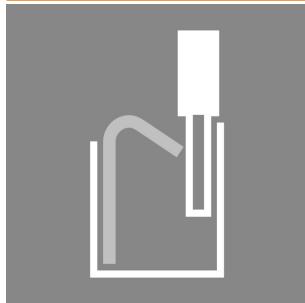
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## Counterpart

## Female plugs - PUSH IN spring connection



The optimum framework for function and innovation: The connection technology for the modular CH20M housing offers you numerous advantages that can make your projects more efficient. With our PCB terminal blocks and connectors, you benefit from flexible and reliable connection technology.

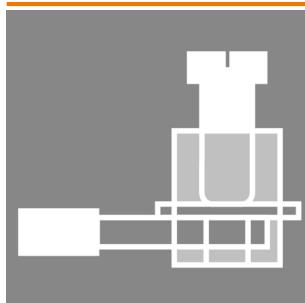
Thanks to automated production processes such as THT and THR soldering and reel packaging, we can guarantee high quality and precision. This enables fast and uncomplicated integration into your systems.

In addition, we offer you a wide range of colors as well as various coding and printing options to customize your housings. This allows you to ensure that your products are not only functional, but also visually appealing.

## General ordering data

Type	BHF 5.00/02/180LH BK/OR	Version
Order No.	<a href="#">1988380000</a>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 2,
GTIN (EAN)	4050118534955	180°, PUSH IN with actuator, Box
Qty.	150 ST	
Type	BHF 5.00/02/180LH BK/BL	Version
Order No.	<a href="#">1989220000</a>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 2,
GTIN (EAN)	4050118373721	180°, PUSH IN with actuator, Box
Qty.	150 ST	
Type	BHF 5.00/02/180LH BK/BK	Version
Order No.	<a href="#">1497740000</a>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 2,
GTIN (EAN)	4050118306835	180°, PUSH IN with actuator, Box
Qty.	150 ST	

## Female plugs - Clamping yoke screw connection



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## General ordering data

Type	BHZ 5.00/02/90LH BK/OR	Version
Order No.	<a href="#">1063260000</a>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 2,
GTIN (EAN)	4032248814923	90°, Clamping yoke connection, cod. 02, Box
Qty.	150 ST	

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Type	BHZ 5.00/02/90LH BK/BL	Version
Order No.	<a href="#">1069360000</a>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 2,
GTIN (EAN)	4032248824625	90°, Clamping yoke connection, cod. 02, Box
Qty.	150 ST	
Type	BHZ 5.00/02/90LH BK/BK	Version
Order No.	<a href="#">1069330000</a>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 2,
GTIN (EAN)	4032248824939	90°, Clamping yoke connection, cod. 02, Box
Qty.	150 ST	