

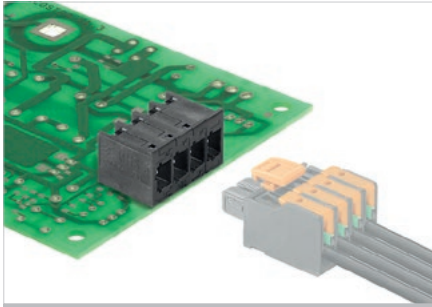
# OMNIMATE<sup>®</sup> 4.0

Signal Series



**Weidmüller** 

### MHS 5 - horizontal



Modular male headers in 5.00 mm pitch with 90° outgoing elbow made of high performance material PA9T, which can be used for both reflow and wave soldering process.

- 90° outgoing elbow for horizontal PCB connection
- Suitable for reflow and wave soldering processes
- Compliance with Moisture Level 1
- Available prepared engineering data (EDA)

### Technical data

#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>26.8</b>	<b>23.1</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>250</b>	<b>320 400</b>
Rated impulse voltage	kV	4	4 4
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300</b>
<b>Rated current</b>	<b>A</b>	<b>14</b>	<b>10</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA 9T	
UL 94 flammability rating		V-0	
Contact base material		CuMg	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

### Product data

IEC: 400 V / 26.8 A  
UL: 300 V / 14 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

#### Note:

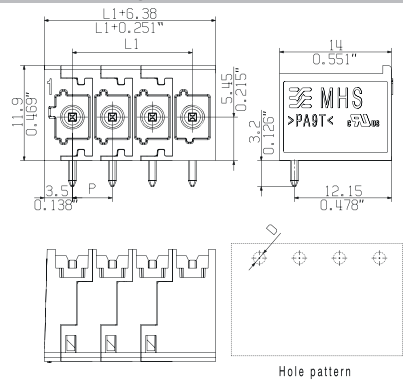
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Diameter of solder eyelet D = 1.4+0.1mm
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### MHS 5/.. H T3 B T

#### Tube packaging



#### Dimensioned drawing



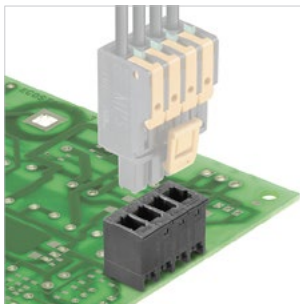
### Ordering data

Solder pin length		3.2 mm		
Colour		black		
Pitch		5.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	5.00	0.197	48	2741400000
3	10.00	0.394	33	2741420000
4	15.00	0.591	25	2741430000
5	20.00	0.787	20	2741440000
6	25.00	0.984	17	2741450000
7	30.00	1.181	15	2741460000
8	35.00	1.378	13	2741470000
9	40.00	1.575	11	2741480000
10	45.00	1.772	10	2741490000
11	50.00	1.969	9	2741500000
12	55.00	2.165	8	2741510000

5.00

90°

### MHS 5 - vertical



Modular male headers in 5.00 mm pitch with 180° outgoing elbow made of high performance material PA9T, which can be used for both reflow and wave soldering process.

- 180° outgoing elbow for vertical PCB connection
- Suitable for reflow and wave soldering processes
- Compliance with Moisture Level 1
- Available prepared engineering data (EDA)

### Product data

IEC: 400 V / 25.3 A  
UL: 300 V / 14 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

#### Note:

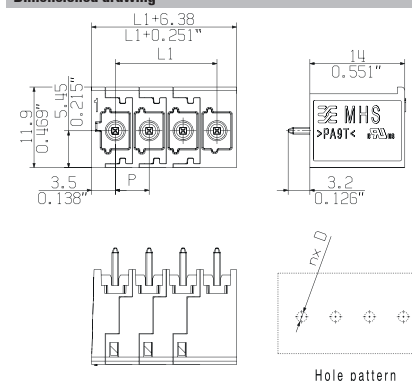
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Diameter of solder eyelet  $D = 1.4 \pm 0.1 \text{ mm}$
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### MHS 5/.. V T3 B T

#### Tube packaging



#### Dimensioned drawing



### Technical data

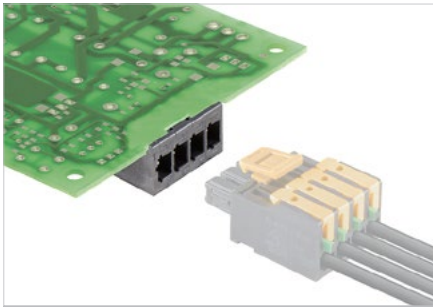
#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with ferrule collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>25.3</b>	<b>21.8</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>250</b>	<b>320 400</b>
Rated impulse voltage	kV	4	4 4
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300</b>
<b>Rated current</b>	<b>A</b>	<b>14</b>	<b>10</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA 9T	
UL 94 flammability rating		V-0	
Contact base material		CuMg	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

### Ordering data

Solder pin length		3.2 mm	
Colour		black	
<b>Pitch 5.00 mm</b>			
Pol.	L1	(inch)	Qty. Order No.
2	5.00	0.197	48 <b>8000072425</b>
3	10.00	0.394	33 <b>8000072430</b>
4	15.00	0.591	25 <b>8000072431</b>
5	20.00	0.787	20 <b>8000072435</b>
6	25.00	0.984	17 <b>8000072438</b>
7	30.00	1.181	15 <b>8000072450</b>
8	35.00	1.378	13 <b>8000072453</b>
9	40.00	1.575	11 <b>8000072454</b>
10	45.00	1.772	10 <b>8000072456</b>
11	50.00	1.969	9 <b>8000072461</b>
12	55.00	2.165	8 <b>8000072470</b>

### MHS 5 - horizontal inverted



Modular male headers in 5.00 mm pitch with 270° outgoing elbow made of high performance material PA9T, which can be used for both reflow and wave soldering process.

- 270° outgoing elbow for horizontal inverted PCB connection
- Suitable for reflow and wave soldering processes
- Compliance with Moisture Level 1
- Available prepared engineering data (EDA)

### Product data

IEC: 400 V / 26.8 A  
UL: 300 V / 14 A



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

#### Note:

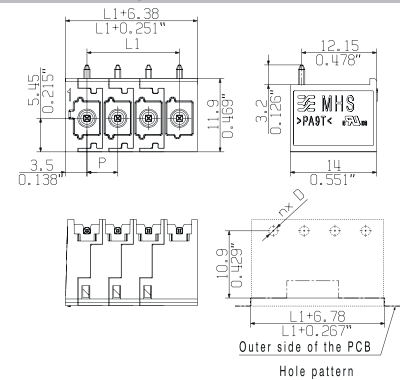
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Diameter of solder eyelet D = 1.4+0.1mm
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### MHS 5/.. W T3 B T

#### Tube packaging



#### Dimensioned drawing



### Technical data

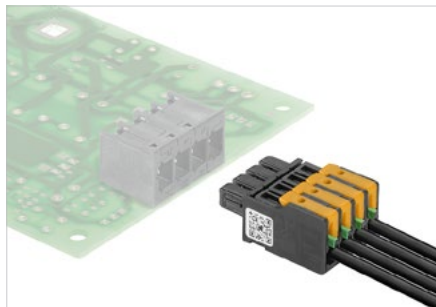
#### In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
<b>Solid core H05(07) V-U</b>			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>26.8</b>	<b>23.1</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>250</b>	<b>320 400</b>
Rated impulse voltage	kV	4	4 4
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300</b>
<b>Rated current</b>	<b>A</b>	<b>14</b>	<b>10</b>
<b>AWG conductor</b>	<b>AWG</b>		-
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG		-
<b>General data</b>			
Type of insulation material		PA 9T	
UL 94 flammability rating		V-0	
Contact base material		CuMg	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.4	
Solder eyelet Ø tolerance	mm	+ 0,1	

### Ordering data

Solder pin length		3.2 mm		
Colour		black		
<b>Pitch</b>		<b>5.00 mm</b>		
Pol.	L1	(inch)	Qty.	Order No.
2	5.00	0.197	48	8000072497
3	10.00	0.394	33	8000072503
4	15.00	0.591	25	8000072506
5	20.00	0.787	20	8000072508
6	25.00	0.984	17	8000072509
7	30.00	1.181	15	8000072510
8	35.00	1.378	13	8000072511
9	40.00	1.575	11	8000072512
10	45.00	1.772	10	8000072513
11	50.00	1.969	9	8000072514
12	55.00	2.165	8	8000072515

## MPS 5 - straight



OMNIMATE® 4.0 signal connectors combine three innovations in one product: the fastest connection technology SNAP IN, a modular product design with flexible configuration options, and the fastest possible delivery.

- Particularly fast, safe and tool-free wiring thanks to SNAP IN connection
- Optical and acoustic feedback indicates proper wiring
- Tool-free rewiring via lever operation
- Individual color and font marking in the configurator

## Product data

IEC: 400 V / 26.8 A / 0.5 - 4 mm<sup>2</sup>  
UL: 300 V / 14 A / AWG 18 - 14



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

### Note:

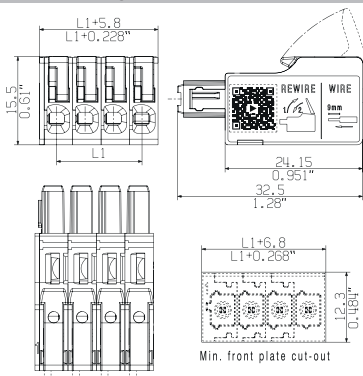
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Wire end ferrule without plastic collar to DIN 46228/1
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

## MPS 5/.. S TN B

### Box packaging



### Dimensioned drawing



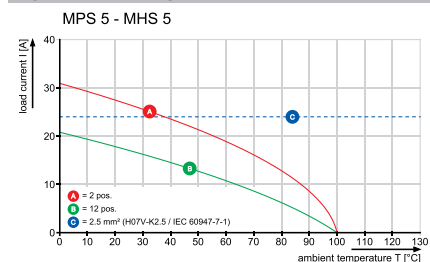
## Ordering data

Solder pin length				
Colour	black			
Pitch	5.00 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	5.00	0.197	168	2741560000
3	10.00	0.394	114	2741570000
4	15.00	0.591	84	2741580000
5	20.00	0.787	72	2741590000
6	25.00	0.984	60	2741600000
7	30.00	1.181	48	2741610000
8	35.00	1.378	42	2741620000
9	40.00	1.575	36	2741630000
10	45.00	1.772	36	2741640000
11	50.00	1.969	30	2741650000
12	55.00	2.165	30	2741660000

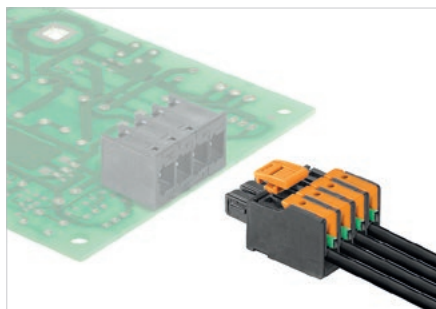
## Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...2.5	
<b>Solid core H05(07) V-U</b>	mm <sup>2</sup>	<b>0.5...2.5</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...4	
Flexible with ferrule	mm <sup>2</sup>	0.5...2.5	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...2.5	
Stripping length	mm	9	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>26.8</b>	<b>23.1</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>250</b>	<b>320 400</b>
Rated impulse voltage	kV	4	4 4
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300</b>
<b>Rated current</b>	<b>A</b>	<b>14</b>	<b>10</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>18-14</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG	-	
<b>General data</b>			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

## Representative deratings curve



### MPS 5 - straight, top flange



OMNIMATE® 4.0 signal connectors combine three innovations in one product: the fastest connection technology SNAP IN, a modular product design with flexible configuration options, and the fastest possible delivery.

- Particularly fast, safe and tool-free wiring thanks to SNAP IN connection
- Optical and acoustic feedback indicates proper wiring
- Tool-free operation thanks to lever and top fixation
- Individual color and font marking in the configurator

### Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm <sup>2</sup>	0.5...2.5	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...2.5</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...4	
Flexible with ferrule	mm <sup>2</sup>	0.5...2.5	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...2.5	
Stripping length	mm	9	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>26.8</b>	<b>23.1</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>250</b>	<b>320 400</b>
Rated impulse voltage	kV	4	4 4
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>300</b>
<b>Rated current</b>	<b>A</b>	<b>14</b>	<b>10</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>18-14</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V		
Rated current	A		
AWG conductor	AWG	-	
General data			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

### Product data

IEC: 400 V / 26.8 A / 0.5 - 4 mm<sup>2</sup>  
UL: 300 V / 14 A / AWG 18 - 14



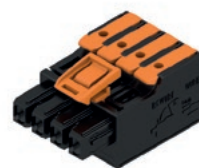
For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

#### Note:

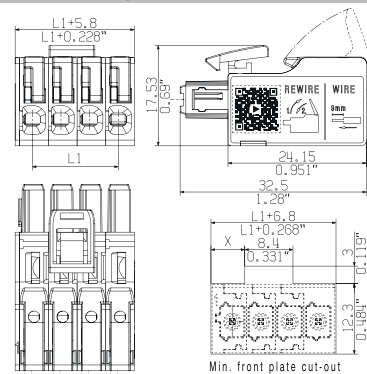
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Wire end ferrule without plastic collar to DIN 46228/1
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

### MPS 5/.. S F.. TN B

#### Box packaging



#### Dimensioned drawing



### Ordering data

Solder pin length				
Colour				black
Pitch 5.00 mm				
Pol.	L1	(inch)	Qty.	Order No.
2	5.00	0.197	168	2741670000
3	10.00	0.394	114	2741680000
4	15.00	0.591	84	2741690000
5	20.00	0.787	72	2741700000
6	25.00	0.984	60	2741710000
7	30.00	1.181	48	2741720000
8	35.00	1.378	42	2741730000
9	40.00	1.575	36	2741740000
10	45.00	1.772	36	2741750000
11	50.00	1.969	30	2741760000
12	55.00	2.165	30	2741770000

### Representative deratings curve

