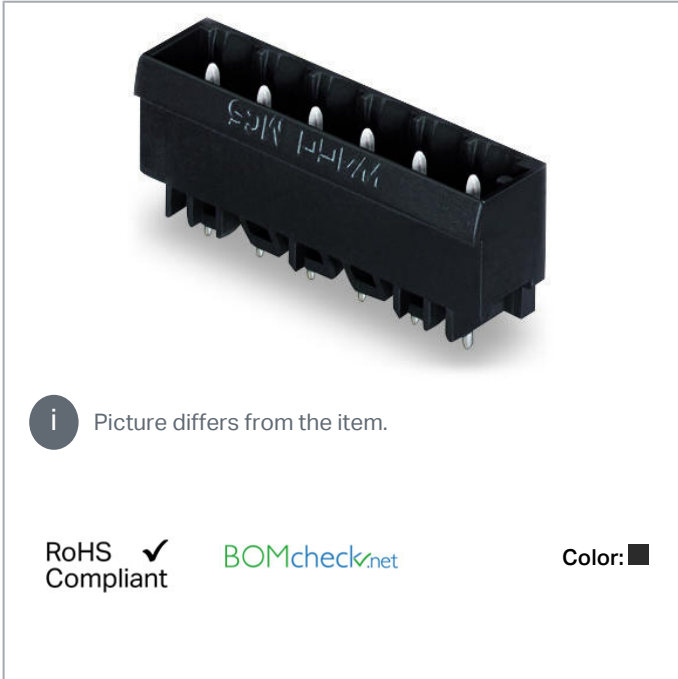


# Data sheet | Item number: 231-141/001-000/105-604

THR male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 11-pole; black



[www.wago.com/231-141/001-000/105-604](http://www.wago.com/231-141/001-000/105-604)

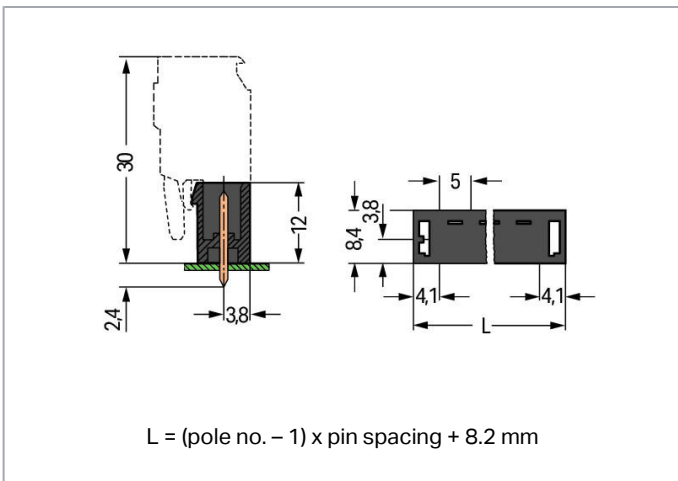
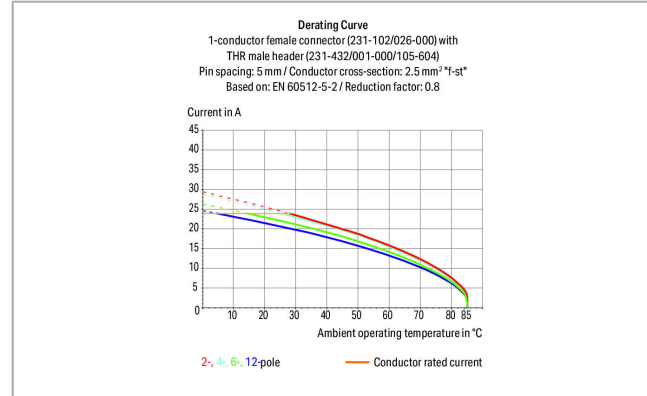


**i** Picture differs from the item.

RoHS  Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color:



## Item description

- THR male headers for reflow soldering in SMT applications
- Available in tape-and-reel packaging for automated pick-and-place PCB assembly
- Also available in bulk packaging for manual placement

Subject to changes. Please also observe the further product documentation!

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



- Male headers may be mounted horizontally or vertically
- With coding fingers

**Safety information 1:**

The *MCS – MULTI CONNECTION SYSTEM* includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

**Data****Electrical data****Ratings per IEC/EN**

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Nominal voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
Rated current	12 A
Legend (ratings)	(III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2

**Ratings per UL**

Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A

**Ratings per UL**

Rated voltage UL 1977	600 V
Rated current UL 1977	10 A

**Ratings per CSA**

Approvals per	CSA
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 A

Subject to changes. Please also observe the further product documentation!



Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

### Connection data

Pole No.	11
Total number of potentials	11
Number of connection types	1
Number of levels	1

### Physical data

Pin spacing	5 mm / 0.197 inch
Width	58.2 mm / 2.291 inch
Height	14.4 mm / 0.567 inch
Height from the surface	12 mm / 0.472 inch
Depth	8.4 mm / 0.331 inch
Solder pin length	2.4 mm
Solder pin dimensions	1 x 1 mm
Plated through-hole diameter (THR)	1.4 <sup>(+0.1)</sup> mm

### Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	No
Mating direction to the PCB	90°

### PCB contact

PCB Contact	THR
Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	1

### Material data

Color	black
Material group	I
Insulation material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	

Subject to changes. Please also observe the further product documentation!

Electrolytic copper (E<sub>Cu</sub>)

Contact plating	tin-plated
Weight	3.3 g

### Environmental requirements


Limit temperature range	-60 ... +100 °C
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### Commercial data


Packaging type	BOX
Country of origin	PL
GTIN	4055143695558
Customs tariff number	85366990990

### Approvals / Certificates


#### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CB</b> DEKRA Certification B.V.	IEC 61984	NL-39756
	<b>CSA</b> DEKRA Certification B.V.	C22.2	LR 18677-25

#### Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>ABS</b> American Bureau of Shipping	-	19-HG1869876-PDA

#### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>UL</b> Underwriters Laboratories Inc.	UL 1059	20190731-E45172

Subject to changes. Please also observe the further product documentation!

## Counterpart



Item no. 231-111/026-000

1-conductor female plug; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 11-pole; 2,50 mm<sup>2</sup>; gray

[www.wago.com/231-111/026-000](http://www.wago.com/231-111/026-000)

## Compatible products

### Coding



Item no.: 231-129

Coding key; snap-on type; light gray

[www.wago.com/231-129](http://www.wago.com/231-129)



Item no.: 231-500

Spacer; for formation of groups; light gray

[www.wago.com/231-500](http://www.wago.com/231-500)

## Downloads

### Documentation

#### Additional Information

Technical explanations	3. 4. 2019	pdf 2.0 MB	Download
THR Soldering Process		pdf 548.2 kB	Download

## CAD/CAE-Data

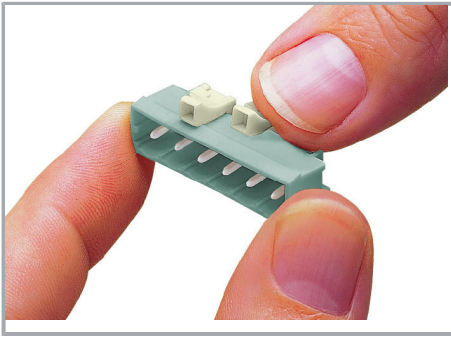
### CAD data

2D/3D Models 231-141/001-000/105-604	URL	Download
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## Installation Notes

### Coding

Subject to changes. Please also observe the further product documentation!



Coding a male header – fitting coding key(s).

## Product family

*MCS* MIDI Classic

[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!