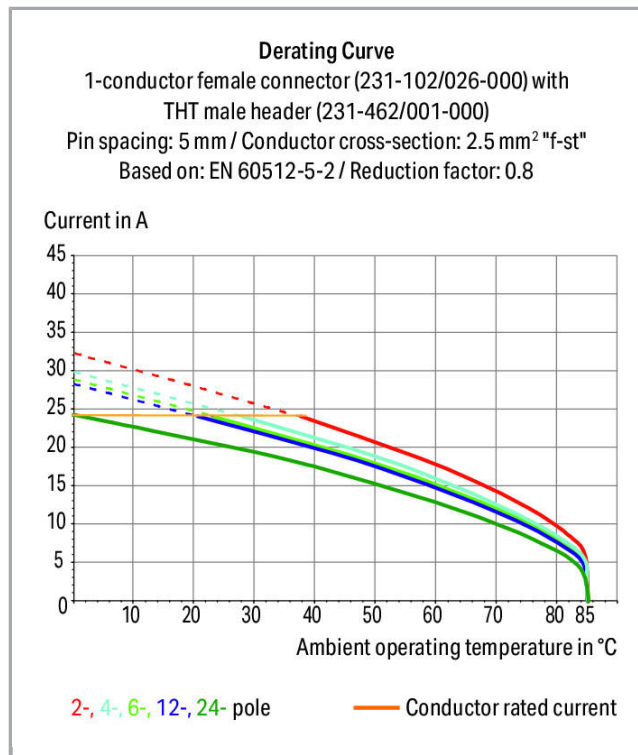
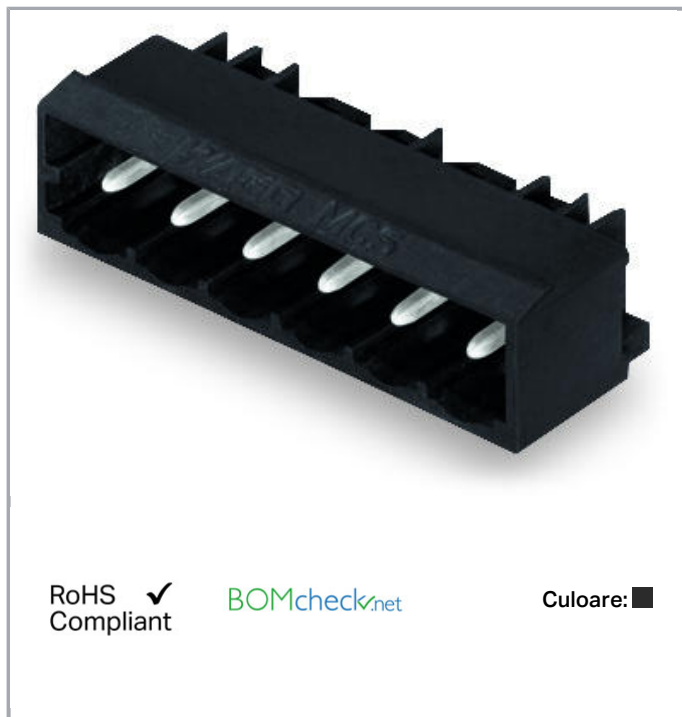


Fișă tehnică | Număr articol: 231-465/001-000/105-604

THR male header; 1.2 x 1.2 mm solder pin; angled; Pin spacing 5 mm; 5-pole;  
black



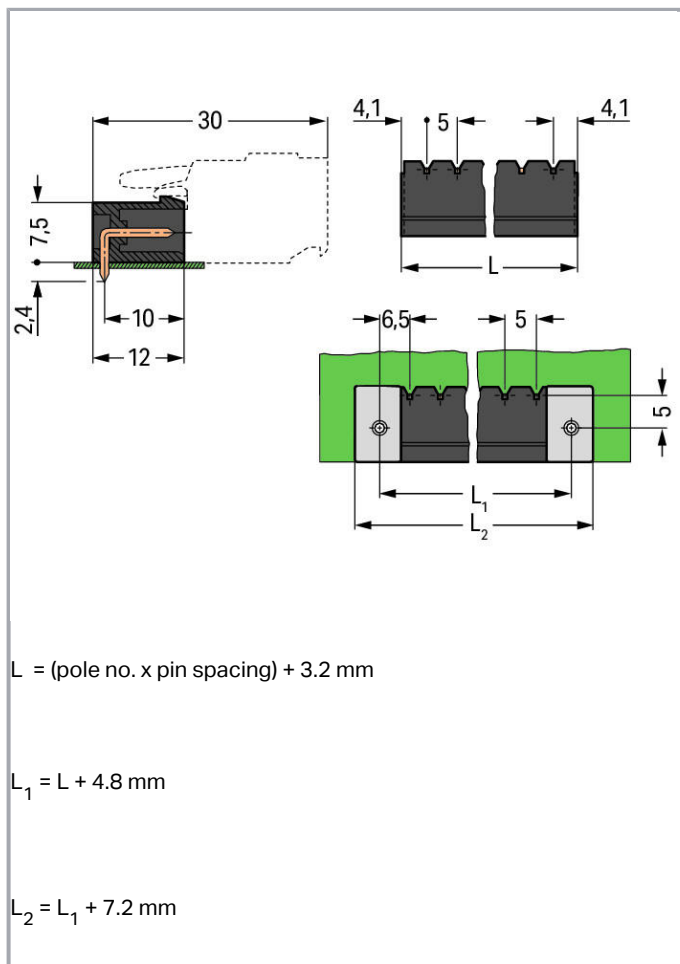
[www.wago.com/231-465/001-000/105-604](http://www.wago.com/231-465/001-000/105-604)



Supus modificărilor.

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Aveți întrebări despre produsele noastre?  
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## Descriere articol

- THR male headers for reflow soldering in SMT applications
- Available in tape-and-reel packaging for automated pick-and-place PCB assembly
- 1.2 x 1.2 mm solder pins allow nominal current up to 16 A, enhancing stability of shorter headers
- Also available in bulk packaging for manual placement
- Male headers may be mounted horizontally or vertically
- With coding fingers

### Safety information 1:

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall 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.

Supus modificărilor.

## Date

### Electrical data

#### Ratings per IEC/EN 60664-1

| Ratings per                 | IEC/EN 60664-1  |
|-----------------------------|---|
| Nominal voltage (III/3)     | 250 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               | 16 A  |
| Legend (ratings)            | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |

#### 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    |
| Approvals per                  | UL 1059 |

#### Approvals per UL 1977

|                       |       |
|-----------------------|-------|
| Rated voltage UL 1977 | 600 V |
| Rated current UL 1977 | 15 A  |

#### Approvals per CSA

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

#### Connection data

|                            |   |
|----------------------------|---|
| Pole No.                   | 5 |
| Total number of potentials | 5 |
| Number of connection types | 1 |
| Number of levels           | 1 |

Supus modificărilor.



## Geometrical Data

|                                    |                          |
|------------------------------------|--------------------------|
| Pin spacing                        | 5 mm / 0.197 inch        |
| Width                              | 28.2 mm / 1.11 inch      |
| Height                             | 10.8 mm / 0.425 inch     |
| Height from the surface            | 8.4 mm / 0.331 inch      |
| Depth                              | 12 mm / 0.472 inch       |
| Solder pin length                  | 2,4 mm                   |
| Solder pin dimensions              | 1.2 x 1.2 mm             |
| Plated through-hole diameter (THR) | 1.7 <sup>(+0.1)</sup> mm |

## Plug connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector (connection type)        | for PCBs            |
| Mismatching protection             | No                  |
| Mating direction to the PCB        | 0°                  |

## 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            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Weight                      | 2,2 g                                  |

## Environmental Requirements

|                         |                 |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +100 °C |
|-------------------------|-----------------|

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## Commercial data



|                       |                        |
|-----------------------|------------------------|
| Product Group         | 3 (Multi Conn. System) |
| Packaging type        | BOX                    |
| Country of origin     | PL                     |
| GTIN                  | 4050821042808          |
| Customs tariff number | 85366990990            |

## Aprobări / certificate

### Country specific Approvals

| Emblemă  | Aprobare                        | Text de aprobare suplimentar | Nume certificat |
|--|---------------------------------|------------------------------|-----------------|
|  | CSA<br>DEKRA Certification B.V. | C22.2                        | 1466354         |

### UL-Approvals

| Emblemă  | Aprobare                             | Text de aprobare suplimentar | Nume certificat     |
|--|--------------------------------------|------------------------------|---------------------|
|  | UL<br>Underwriters Laboratories Inc. | UL 1059                      | 20190731-<br>E45172 |
|  | UR<br>UL International Germany GmbH  | UL 1977                      | E45171              |

## Counterpart



Nr. articol 231-105/026-000

1-conductor female plug; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 5-pole; 2,50 mm<sup>2</sup>; gray[www.wago.com/231-105/026-000](http://www.wago.com/231-105/026-000)

## Produse compatibile

### Marking accessories

Supus modificărilor.

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**Nr. articol: 210-833**  
Marking strips; on reel; 6 mm wide; plain; Self-adhesive; white

[www.wago.com/210-833](http://www.wago.com/210-833)



**Nr. articol: 210-834**  
Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white

[www.wago.com/210-834](http://www.wago.com/210-834)

#### Coding



**Nr. articol: 231-129**  
Coding key; snap-on type; light gray

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



**Nr. articol: 231-500**  
Spacer; for formation of groups; light gray

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

## Descărcări Documentation

### Additional Information

|                        |             |               |            |
|------------------------|-------------|---------------|------------|
| Technical explanations | Apr 3, 2019 | pdf<br>3,6 MB | Descărcare |
|------------------------|-------------|---------------|------------|

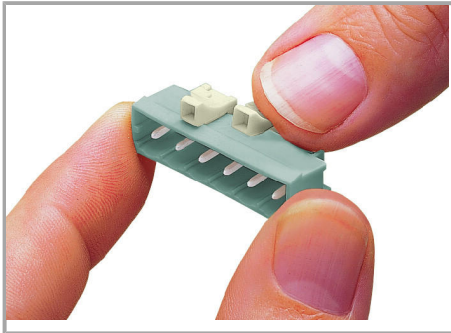
## CAD/CAE-Data

### CAD data

|                                      |     |            |
|--------------------------------------|-----|------------|
| 2D/3D Models 231-465/001-000/105-604 | URL | Descărcare |
|--------------------------------------|-----|------------|

## Installation Notes

### Coding



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

## Familie de produse

Supus modificărilor.

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*MCS* MIDI Classic

Afișare globală produse din familie.

Supus modificărilor.

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