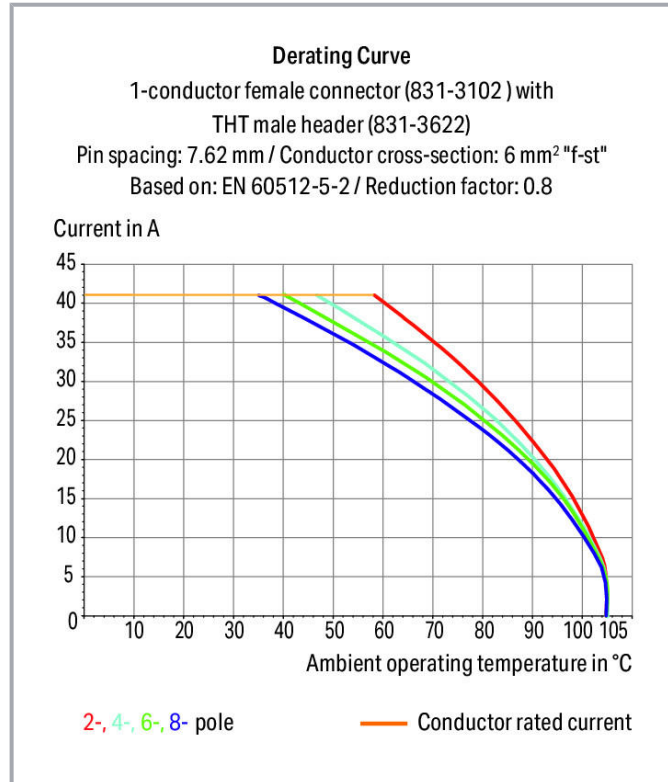
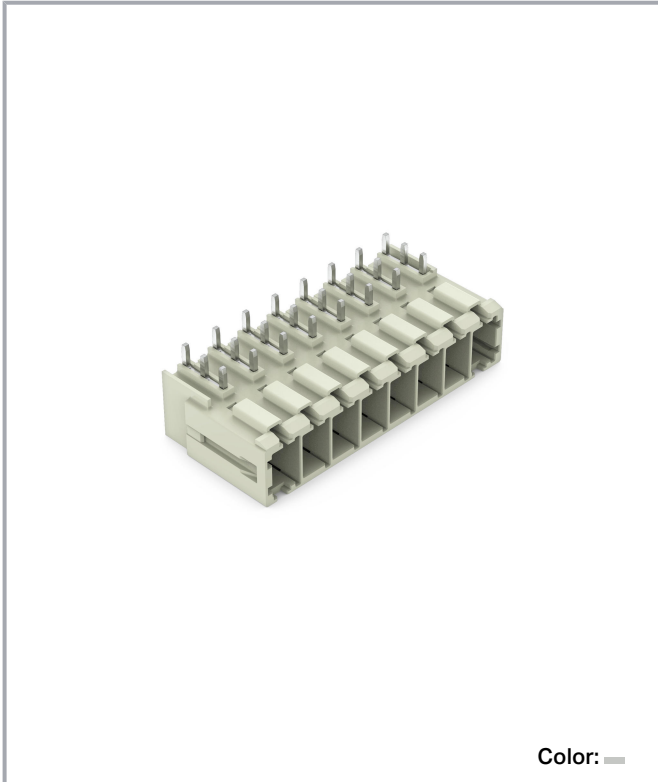


Data sheet | Item number: 831-3648

THT male header; 1.0 x 1.2 mm solder pin; angled; 100% protected against mismatching; Pin spacing 7.62 mm; 8-pole; light gray



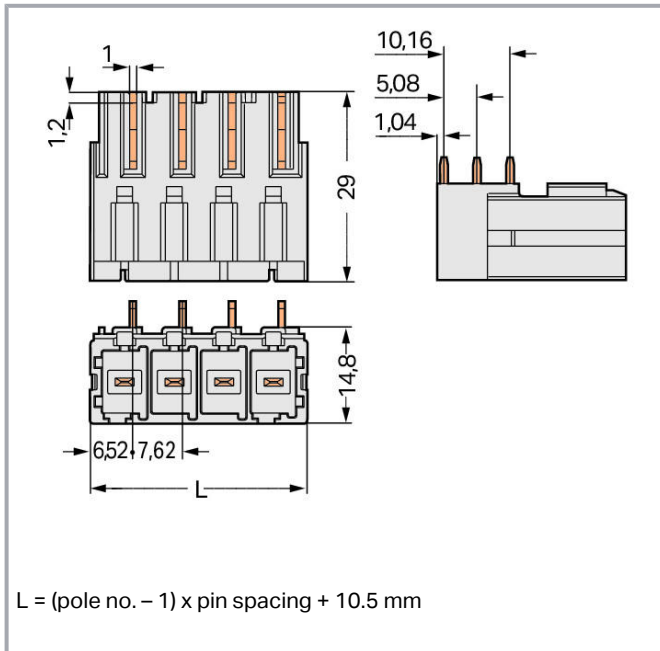
www.wago.com/831-3648



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

WAGO Corporation
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Item description

- Male headers may be mounted horizontally or vertically via straight or angled solder pins
- Three solder pins per pole provide high electrical and mechanical stability
- 100 % protected against mismatching
- Coding via 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

IEC Approvals

| Ratings per | IEC/EN 60664-1 |
|-----------------------------|----------------|
| Rated voltage (III / 3) | 500 V |
| Rated surge voltage (III/3) | 6 kV |
| Rated voltage (III/2) | 630 V |
| Rated surge voltage (III/2) | 6 kV |

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| | |
|----------------------------|--|
| Nominal voltage (II/2) | 1000 V |
| Rated surge voltage (II/2) | 6 kV |
| Rated current | 41 A |
| Legend (ratings) | (III / 2) \triangleq Overvoltage category III / Pollution degree 2 |

UL Approvals

| | |
|--------------------------------|---------|
| Approvals per | UL 1059 |
| Rated voltage UL (Use Group C) | 300 V |
| Rated current UL (Use Group C) | 42 A |
| Rated voltage UL (Use Group D) | 600 V |
| Rated current UL (Use Group D) | 5 A |

CSA Approvals

| | |
|---------------------------------|-------|
| Approvals per | CSA |
| Rated voltage CSA (Use Group C) | 300 V |
| Rated current CSA (Use Group C) | 41 A |
| Rated voltage CSA (Use Group D) | 600 V |
| Rated current CSA (Use Group D) | 5 A |

Connection data

| | |
|----------------------------|---|
| Pole No. | 8 |
| Total number of potentials | 8 |
| Number of connection types | 1 |
| Number of levels | 1 |

Physical data

| | |
|--------------------------------------|--------------------------|
| Pin spacing | 7.62 mm / 0.3 inch |
| Solder pin length | 4 mm |
| Solder pin dimensions | 1 x 1.2 mm |
| Drilled hole diameter with tolerance | 1.7 ^(+0.1) mm |

Plug-in connection

| | |
|------------------------------------|-------------|
| Contact type (pluggable connector) | Male header |
| Connector (connection type) | for PCB |
| Mismating protection | Yes |
| Mating direction to the PCB | 180° |

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| | |
|-------------------------------|---------|
| Locking of plug-in connection | Without |
|-------------------------------|---------|

PCB contact

| | |
|-------------------------------------|--|
| PCB Contact | THT |
| Solder pin arrangement | over the entire male connector (in-line) |
| Number of solder pins per potential | 3 |

Material data

| | |
|-----------------------------|--|
| Color | light gray |
| Material group | I |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Contact material | Electrolytic copper (E _{Cu}) |
| Contact plating | tin-plated |
| Weight | 22.4 g |

Environmental requirements


| | |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +105 °C |
|-------------------------|-----------------|

Commercial data

| | |
|-----------------------|---------------|
| Packaging type | BOX |
| Country of origin | DE |
| GTIN | 4055144081978 |
| Customs tariff number | 85366990990 |

Approvals / Certificates

Country specific Approvals


| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
| | CB DEKRA Certification B.V. | IEC 61984 | NL-61360 /M1 |
|  | KEMA/KEUR DEKRA Certification B.V. | EN 61984 | 71- 116057 |

Ship Approvals

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| Logo | Approval | Additional Approval Text | Certificate name |
|---|-----------------------|--------------------------|------------------|
|  | LR Lloyds Register | IEC 61984 | 96/20035 (E5) |

Counterpart

| | | |
|---|---|--|
|  | Item no.831-1108 1-conductor female connector; 100% protected against mismatching; lever; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray | www.wago.com/831-1108 |
|  | Item no.831-1108/037-000 1-conductor female connector; 100% protected against mismatching; lever; Locking lever; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray | www.wago.com/831-1108/037-000 |
|  | Item no.831-1108/038-000 1-conductor female connector; 100% protected against mismatching; lever; Locking lever; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray | www.wago.com/831-1108/038-000 |
|  | Item no.831-1108/322-000 1-conductor female connector; 100% protected against mismatching; lever; center locking; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray | www.wago.com/831-1108/322-000 |
|  | Item no.831-3108 1-conductor female connector; 100% protected against mismatching; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray | www.wago.com/831-3108 |
|  | Item no.831-3108/000-9037 1-conductor female connector; 100% protected against mismatching; direct marking; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray | www.wago.com/831-3108/000-9037 |
|  | Item no.831-3108/037-000 1-conductor female connector; 100% protected against mismatching; Locking lever; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray | www.wago.com/831-3108/037-000 |
|  | Item no.831-3108/037-9037 1-conductor female connector; 100% protected against mismatching; Locking lever; direct marking; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray | www.wago.com/831-3108/037-9037 |
|  | Item no.831-3108/136-000 1-conductor female connector; 100% protected against mismatching; Gripping plate; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray | www.wago.com/831-3108/136-000 |

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

Downloads

Documentation

Additional Information

| | | | |
|------------------------|-------------|---------------|----------|
| Technical explanations | Apr 3, 2019 | pdf 2.0 MB | Download |
|------------------------|-------------|---------------|----------|

CAD files

CAD data

| | | |
|-----------------------|-----|----------|
| 2D/3D Models 831-3648 | URL | Download |
|-----------------------|-----|----------|

CAE data

| | | |
|-----------------------|-----|----------|
| ZUKEN Portal 831-3648 | URL | Download |
|-----------------------|-----|----------|

Environmental Product Compliance

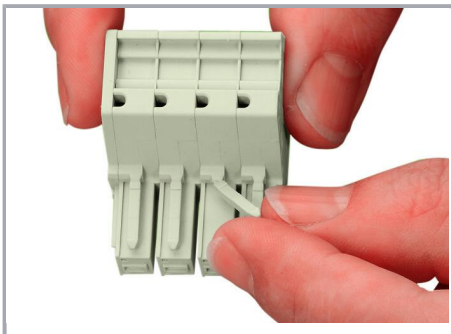
Compliance Search

| | | |
|---|-----|----------|
| Environmental Product Compliance 831-3648 | URL | Download |
|---|-----|----------|

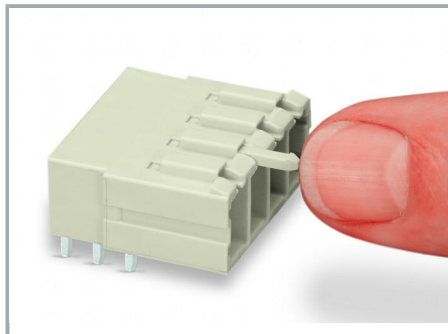
THT male header; 1.0 x 1.2 mm solder pin; angled; 100% protected against mismatching; Pin spacing 7.62 mm; 8-pole; light gray

Installation Notes

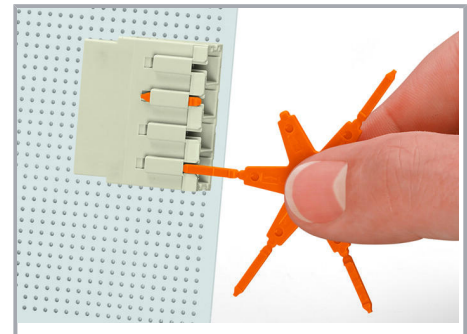
Coding



Break or cut off coding pin from female connector.



Insert coding pin into male header (break first) until it engages.



Coding a THT male header by inserting a coding pin.

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

Data sheet | Item number: 831-3648

www.wago.com/831-3648



Product family

MCS MAXI 6

[Show all products from the family](#)

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