

Data sheet | Item number: 243-743

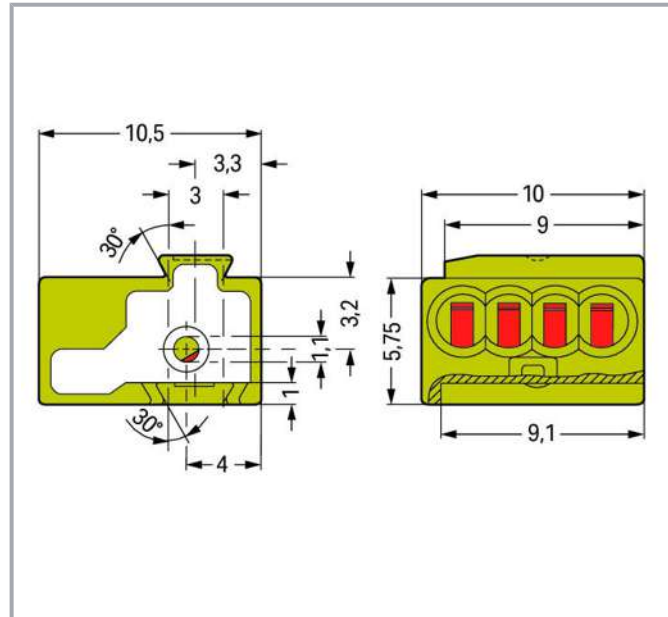
MICRO PUSH WIRE® PCB connector; 4-conductor; AWG 24 - 18 solid; 3-pole assembly; light green



www.wago.com/243-743



Color: 



Item description

- 4-conductor female connector with PUSH WIRE® connection
- Can be assembled to connector strips via dovetail joints
- Push-in termination of solid conductors
- Four entries for power supply and potential distribution
- Quick and easy PCB replacement, without disrupting looped-through potentials

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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

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

**Data****Notes**

Variants:

Other pole numbers

Other colors

Mixed-color PCB connector strips

Direct marking

Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>**Electrical data****IEC Approvals**

| Ratings per | IEC/EN 60664-1 |
|-----------------------------|---|
| Rated 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 | 6 A |
| Legend (ratings) | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |

UL Approvals

| Approvals per | UL 1059 |
|--------------------------------|---------|
| Rated voltage UL (Use Group B) | 150 V |
| Rated current UL (Use Group B) | 7 A |
| Rated voltage UL (Use Group D) | 150 V |
| Rated current UL (Use Group D) | 7 A |

CSA Approvals

| Approvals per | CSA |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 150 V |
| Rated current CSA (Use Group B) | 7 A |
| Rated voltage CSA (Use Group D) | 150 V |
| Rated current CSA (Use Group D) | 7 A |

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Connection data

| | |
|-----------------------------------|----|
| Total number of connection points | 12 |
| Total number of potentials | 3 |
| Number of connection types | 1 |
| Number of levels | 1 |

Connection 1

| | |
|---------------------------------------|---|
| Connection technology | PUSH WIRE® |
| Connectable conductor materials | Copper |
| Solid conductor | 0.5 ... 1 mm ² / 24 ... 18 AWG |
| Conductor diameter | 0.5 ... 1 mm / 24 ... 18 AWG |
| Strip length | 5 ... 6 mm / 0.2 ... 0.24 inch |
| Conductor connection direction to PCB | 0° |
| Number of poles | 3 |

Physical data

| | |
|--------------------------------------|-------------------------------------|
| Pin spacing | 5.75 mm / 0.226 inch |
| Width | 17.25 mm / 0.679 inch |
| Height | 10 mm / 0.394 inch |
| Depth | 10.5 mm / 0.413 inch |
| Solder pin length | 4.5 mm |
| Solder pin diameter | 1 mm |
| Drilled hole diameter with tolerance | 1.2 ^(-0.05 ... +0.05) mm |

Plug-in connection

| | |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector (connection type) | for PCB |
| Mating direction to the PCB | 90° |

Material data

| | |
|-----------------------------|------------------|
| Color | light green |
| Material group | I |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |

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| | |
|--------------------------|--|
| Clamping spring material | Copper alloy |
| Contact material | Electrolytic copper (E _{Cu}) |
| Contact plating | tin-plated |
| Fire load | 0.036 MJ |
| Weight | 2.2 g |

Environmental requirements




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

Commercial data


| | |
|-----------------------|---------------|
| PU (SPU) | 50 Stück |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4044918441902 |
| Customs tariff number | 8536904000 |

Approvals / Certificates

Country specific Approvals


| Logo | Approval | Additional Approval Text | Certificate name |
|--|---------------------------------------|--------------------------|------------------|
|  | CCA DEKRA Certification B.V. | EN 60998 | NTR NL 7812 |
|  | CSA DEKRA Certification B.V. | C22.2 | 70048857 |
|  | KEMA/KEUR DEKRA Certification B.V. | EN 60998 | 71- 112493 |

Ship Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|------------------------------------|--------------------------|--------------------------|
|  | ABS American Bureau of Shipping | - | 18- HG1755093- PDA |


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

UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--------------------------------------|--------------------------|------------------|
|  | UR Underwriters Laboratories Inc. | UL 1059 | E45172 |

Required accessories

Male connector

| | | | |
|--|---|--|--|
| Solder pin | | | |
|  | Item no.: 243-131 Solder pin for 243 Series MICRO PUSH WIRE® PCB connector | | www.wago.com/243-131 |

Optional accessories

Marking accessories

| | | | |
|---------------|--|--|--|
| Marking strip | | | |
| | Item no.: 210-332/575-103 Marking strips; as a DIN A4 sheet; MARKED; 1-12 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white | | www.wago.com/210-332/575-103 |

Downloads

Documentation

Additional Information

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

CAD files

CAE data

| | | | |
|---------------------------|--|-----|----------|
| EPLAN Data Portal 243-743 | | URL | Download |
|---------------------------|--|-----|----------|

PCB Design

| | | | |
|---|--|-----|----------|
| Symbol and Footprint 243-743 | | URL | Download |
| CAx data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment. | | | |

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



Supported formats:

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

Environmental Product Compliance

Compliance Search

| | | |
|--|-----|----------|
| Environmental Product Compliance 243-743 | URL | Download |
| 4-conductor modular PCB connector; PUSH WIRE®; 0.8 mm Ø; Pin spacing 5.75 mm; 3-pole; for individual solder pins; light green | | |

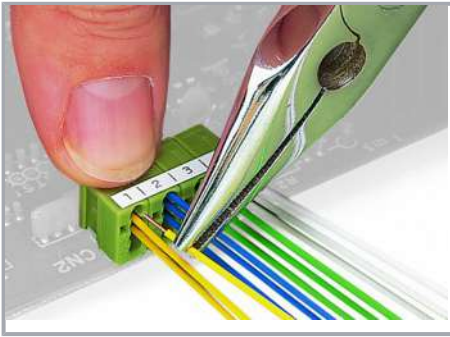
Installation Notes

Conductor termination

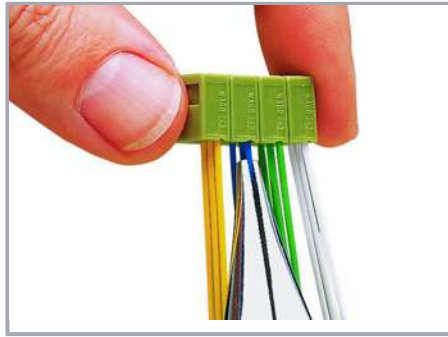
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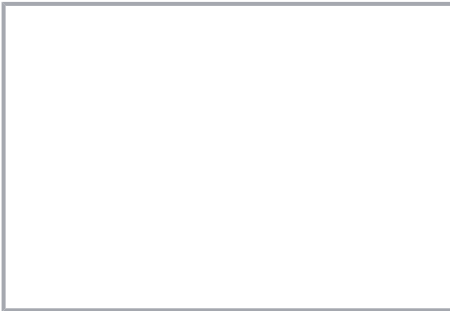


Inserting a conductor using pliers until it hits the backstop – directly on the PCB or wiring prior to mounting on PCB.



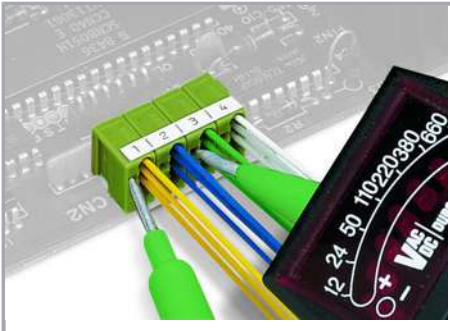
Removing a conductor using pliers – twisting alternately left and right – 243 Series

Installation



Removing a PCB connector strip to replace the board.

Testing



Testing – 243 Series

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