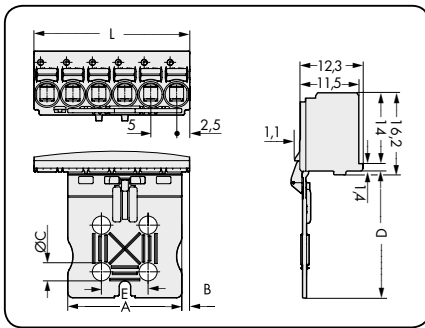


Standard Female Connectors picoMAX® 5.0

| | | |
|--|--|---|
| With gripping plate and sliding connector release Pin spacing: 5 mm / 0.197 in 0.2 - 2.5 mm ² AWG 24 - 12 320 V/4 kV/2 16 A 300 V/15 A | | Types of assembly with male headers/connectors |
|--|--|---|



L = pole no. x pin spacing

| Pole No. | Item No. | Pack. Unit |
|---|-------------------|------------|
| Female connector with gripping plate and sliding connector release, light gray | | |
| 2 | 2092-1102/002-000 | 100 |
| 3 | 2092-1103/002-000 | 100 |
| 4 | 2092-1104/002-000 | 100 |
| 5 | 2092-1105/002-000 | 50 |
| 6 | 2092-1106/002-000 | 50 |
| 8 | 2092-1108/002-000 | 50 |
| 10 | 2092-1110/002-000 | 50 |
| 12 | 2092-1112/002-000 | 50 |

Gripping plate dimensions (in mm):

| Pole No. | A | B | C | D | E |
|----------|----|-----|-----|----|----|
| 2 | 7 | 1.5 | - | 20 | - |
| 3 | 12 | 1.5 | - | 20 | - |
| 4 | 12 | 1.5 | - | 20 | - |
| 5 | 22 | 1.5 | 3.5 | 25 | 9 |
| 6 | 22 | 1.5 | 3.5 | 25 | 9 |
| 8 | 22 | 6.5 | 3.5 | 25 | 9 |
| 10 | 42 | 1.5 | 5.0 | 35 | 19 |
| 12 | 42 | 6.5 | 5.0 | 35 | 19 |

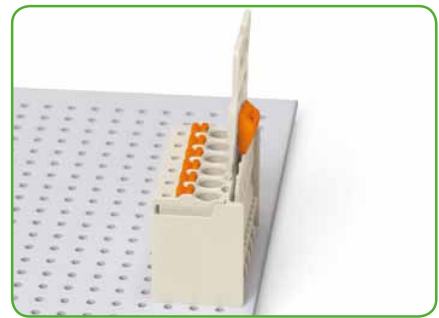
Header with straight solder pins

Header with angled solder pins

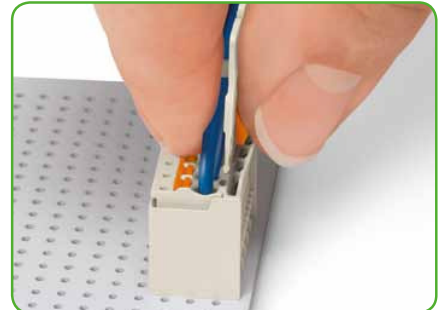
Standard connector

Panel feedthrough connector

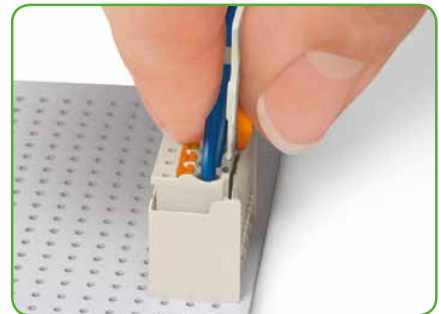
Outside Inside



Male header mated to a female connector with gripping plate and sliding connector release.



Push down sliding connector release (gripping plate) to open the locking latch.



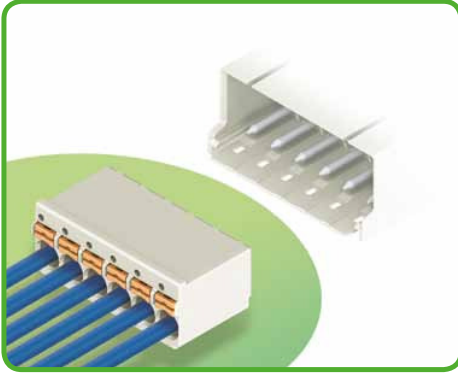
Pull out female connector with gripping plate from male header.

5.0

Standard Female Connectors

picoMAX® 5.0

28



- Universal connection for all conductor types
- Simple, push-in termination of solid and ferruled conductors
- Ability to wire while mated or unmated
- Testing port parallel to conductor entry – tip contact
- Integrated locking latches prevent accidental disconnection

Technical data:

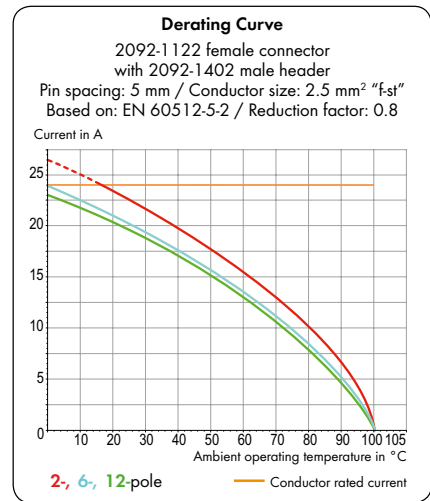
| Pin Spacing | 5 mm 0.197 in | | |
|----------------------|------------------|-------|-------|
| Ratings per | IEC/EN 60664-1 | | |
| Overtoltage category | III | III | II |
| Pollution degree | 3 | 2 | 2 |
| Rated voltage | 250 V | 320 V | 630 V |
| Rated surge voltage | 4 kV | 4 kV | 4 kV |
| Nominal current | 16 A | 16 A | 16 A |
| Approvals per | UL/CSA* | | |
| Use group UL 1059 | B | C | D |
| Rated voltage | 300 V | - | 300 V |
| Nominal current UL | 15 A | - | 10 A |
| Nominal current CSA | - | - | - |

Conductor data:

| | | |
|-------------------------------|---|----------------|
| Connection technology | CAGE CLAMP® S | |
| Conductor size: solid | 0.2 - 2.5 mm ² | |
| Conductor size: fine-stranded | 0.2 - 2.5 mm ² | |
| Conductor size: fine-stranded | 0.25 - 1.5 mm ² (with insulated ferrule) | |
| Conductor size: fine-stranded | 0.25 - 2.5 mm ² (with uninsulated ferrule) | |
| AWG | 24 - 12 | 12: THHN, THWN |
| Strip length | 9 - 10 mm / 0.35 - 0.39 in | |

Material data:

| | |
|-------------------------------|---|
| Material group | I |
| Insulation material | Glass-fiber-reinforced polyphthalamide (PPA-GF) |
| Flammability rating per UL 94 | V0 |
| Lower/Upper limit temperature | -60 °C / +100 °C |
| Clamping spring material | Chrome nickel spring steel (CrNi) |
| Contact material | Electrolytic copper (E _{Cu}) |
| Contact plating | tin-plated |



For additional derating curves, see page 72.

Accessories for picoMAX®:

Page:

| | |
|-----------------|----|
| Operating tools | 64 |
| Direct printing | 68 |
| Gripping plates | 65 |
| Coding pins | 66 |
| Test pin | 64 |

The **picoMAX® pluggable connection system** includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these 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.

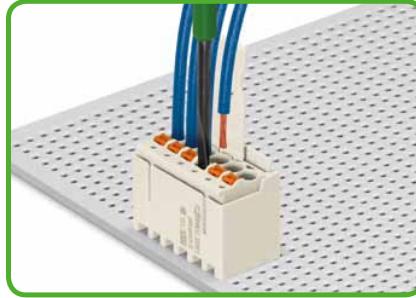


Handling picoMAX®

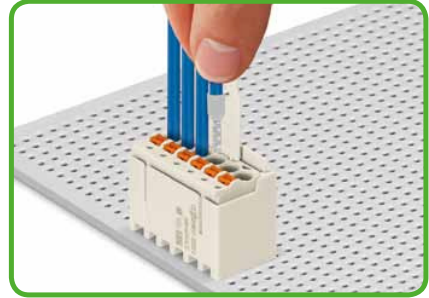
Pin Spacing: 3.5 mm/0.138 in; 5.0 mm/0.197 in; 7.5 mm/0.295 in



Inserting fine-stranded conductor into unmated female connector via push-button.



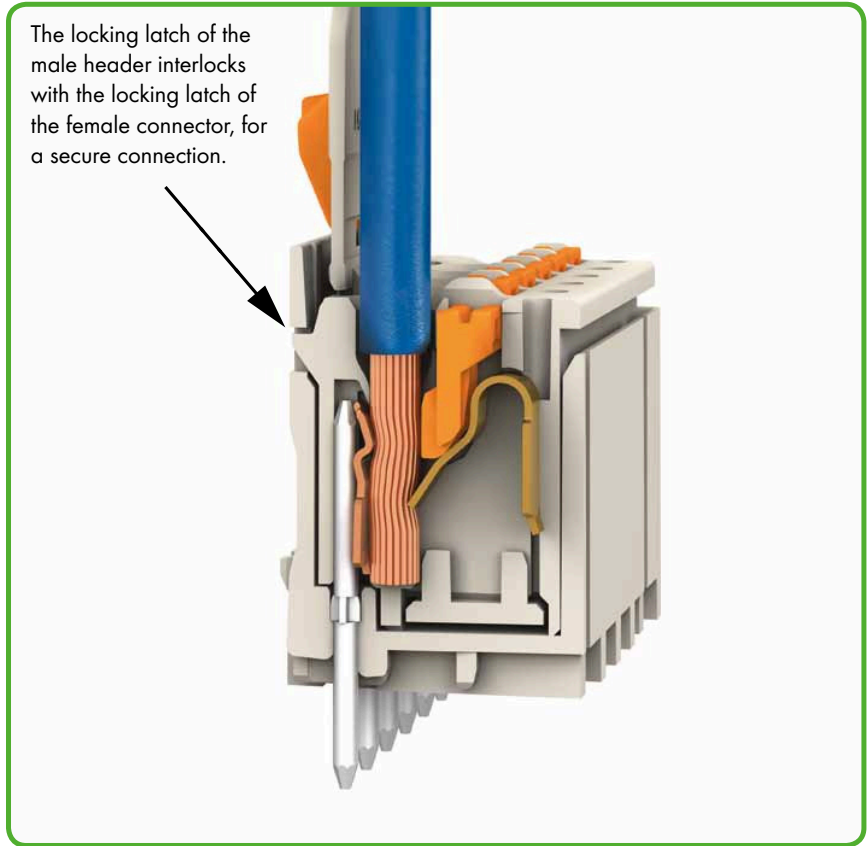
Inserting fine-stranded conductor into mated female connector via push-button.



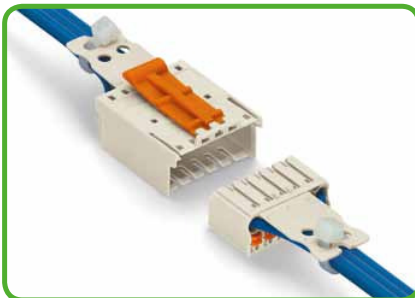
Inserting solid and ferruled conductors via push-in termination (see notes on page 75).



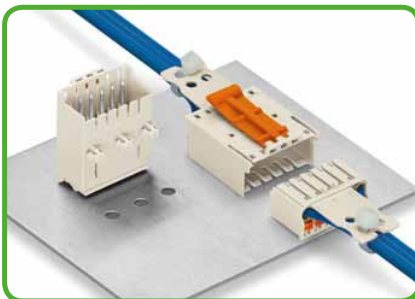
Easy-to-identify PCB inputs and outputs.



The locking latch of the male header interlocks with the locking latch of the female connector, for a secure connection.



"Wire-to-wire" flying leads



Male connectors with snap-in mounting feet for panel mounting.



Male connector with snap-in mounting feet on mounting adapter for DIN 35 rail.



Pole marking via factory direct printing.



CAGE CLAMP® S clamps the following copper conductors:

solid



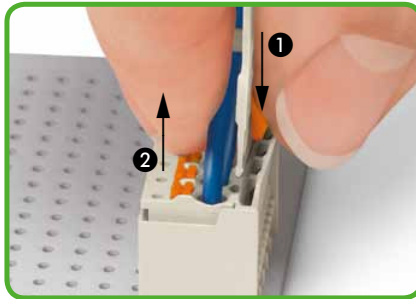
stranded



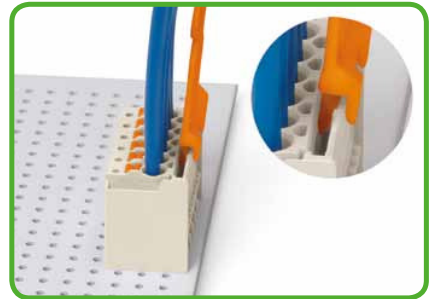
fine-stranded, also with tinned single strands



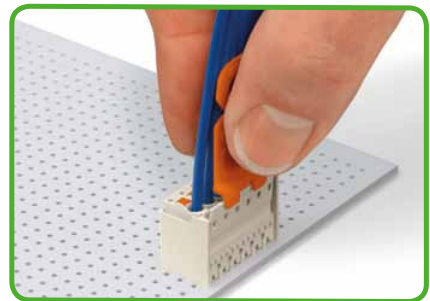
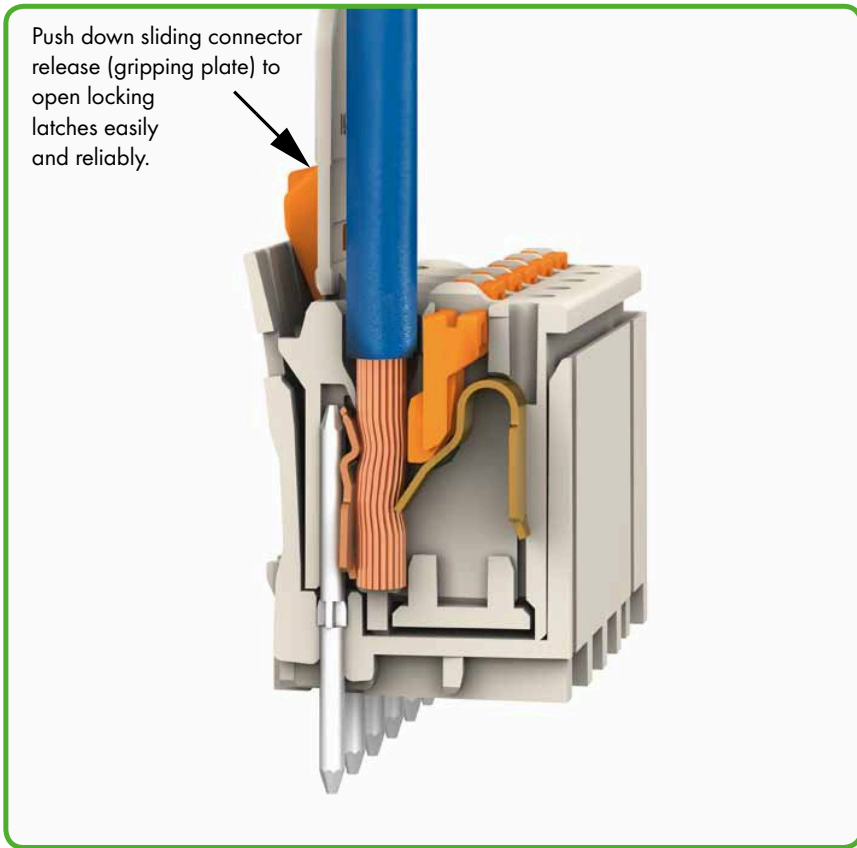
Male header mated to a female connector with gripping plate and sliding connector release.



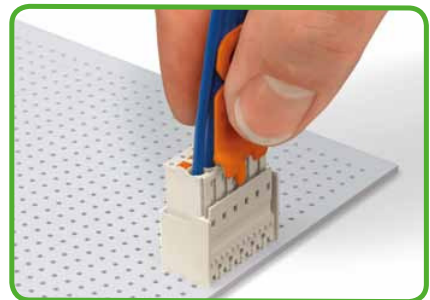
Disconnecting female connector via sliding connector release.
 ① Push down sliding connector release (gripping plate) to open the locking latch.
 ② Pull out female connector from male header.



Disconnecting female connector via unlocking tool. Plug unlocking tool into the male locking latch.



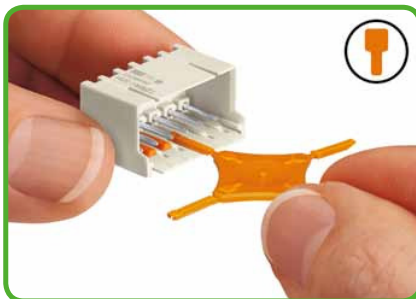
Insert unlocking tool until it hits backstop. Wedge opens locking latches.



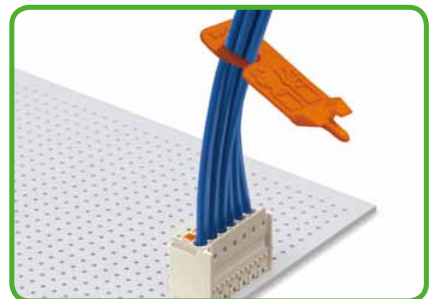
Pull on both unlocking tool and conductors to remove female connector from male header.



Coding a female connector (via coding key carrier and two keys for female connector, see symbol).



Coding a male header (via coding key carrier and two keys for male header, see symbol).



Unlocking tool may be suspended on wire harness for storage.



fine-stranded, tip-bonded



fine-stranded, with ferrule (gastight crimped)