

Data sheet | Item number: 231-110/102-047

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm;
10-pole; with integrated end plate; direct marking; 2,50 mm²; gray



www.wago.com/231-110_102-047



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.



Item description

- Universal connection for all conductor types
- Easy cable pre-assembly and on-unit wiring via vertical and horizontal CAGE CLAMP® actuation
- Integrated test ports
- With coding fingers

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Data Notes

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.

Variants:

Gold-plated or partially gold-plated contact surfaces
Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>


Connection data

Connection 1


Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm ²
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch
Number of poles	10
Conductor entry direction to mating direction	0°

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CSA DEKRA Certification B.V.	C22.2	1466354

Ship Approvals


Logo	Approval	Additional Approval Text	Certificate name
	BV Bureau Veritas S.A.	IEC 60998	11915/D0 BV

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UL-Approvals

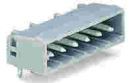
Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 1977	E45171

Counterpart



Item no.231-610
Male connector; 10-pole; Pin spacing 5 mm; gray

www.wago.com/231-610



Item no.231-440/001-000
Male header; 10-pole; THT; 1.0 x 1.0 mm solder pin; angled; pin spacing 5 mm; gray

www.wago.com/231-440/001-000



Item no.231-140/001-000
Male header; 10-pole; THT; 1.0 x 1.0 mm solder pin; straight; pin spacing 5 mm; gray

www.wago.com/231-140/001-000

Downloads

Documentation

Additional Information

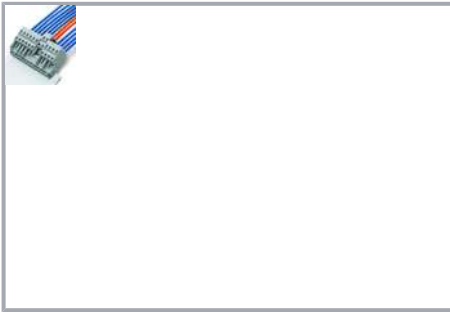
Technical explanations	2019 Apr 3	pdf 2.0 MB	Download
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Installation Notes

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

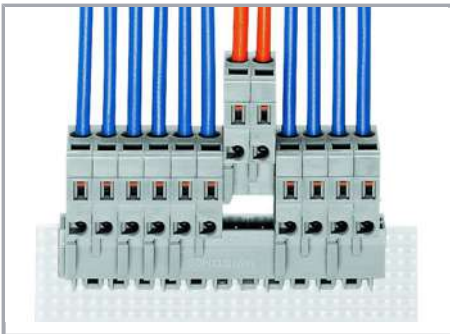
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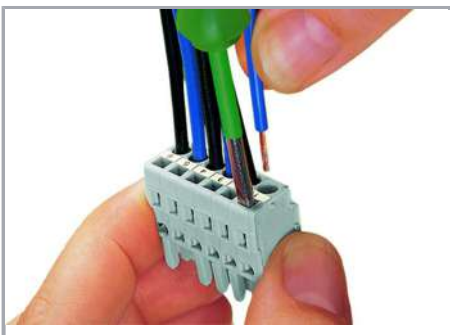


Total pole number for female connectors
= pole number for male header

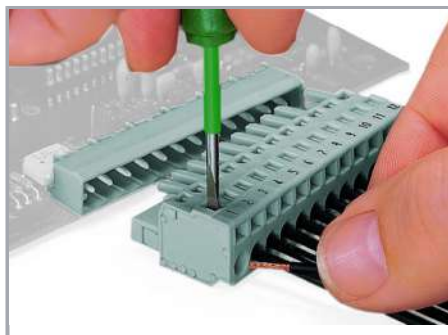
Application



Female connectors with a built-in end plate require no extra space, while maintaining the nominal cross-section. This means: Total length of female connectors is reduced to "pole no. x pin spacing"!



Inserting a conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation parallel to conductor entry.



Inserting a conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation perpendicular to conductor entry.



Inserting a conductor into CAGE CLAMP® unit via operating lever (231-291).

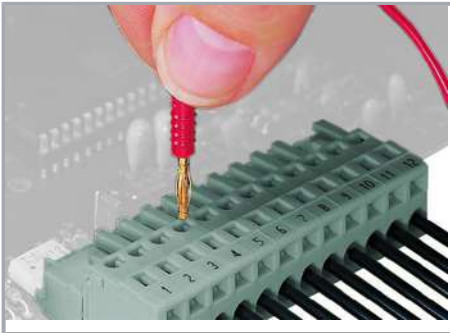
Subject to changes. Please also observe the further product documentation!



Inserting a conductor via operating tool.



Coding a female connector by removing coding finger(s).

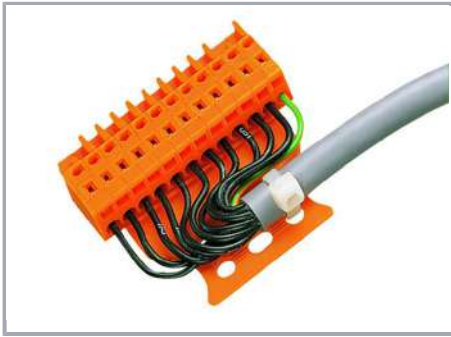


Testing – female connector with CAGE CLAMP®

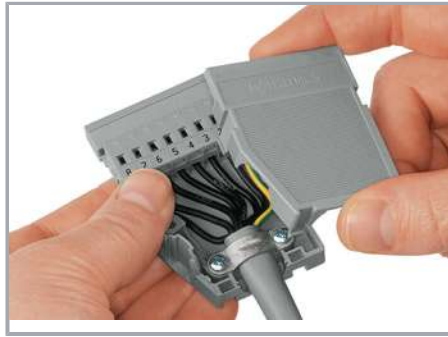
Integrated test ports for testing perpendicular to conductor entry via 2 or 2.3 mm Ø test plug

Installation

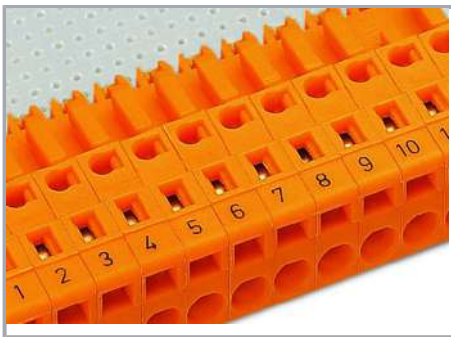
Subject to changes. Please also observe the further product documentation!



Male connector with strain relief plate



Strain relief housing shown with a male connector equipped with CAGE CLAMP®



Labeling via direct marking or self-adhesive strips.

Product family

MCS MIDI Classic

[Show all products from the family](#)

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