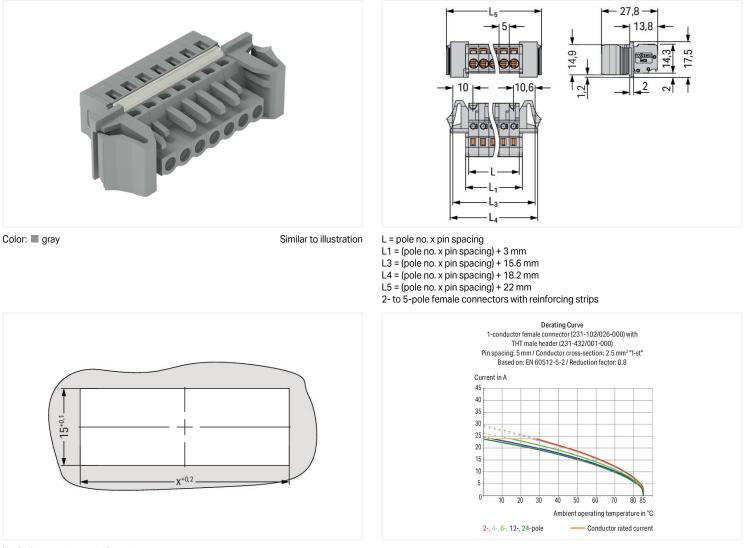
### Data Sheet | Item Number: 231-104/124-000 1-conductor female connector; CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 4-pole; Snap-in flange; 2,50 mm<sup>2</sup>; gray https://www.wago.com/231-104/124-000





X = (pole no. x pin spacing) + 15.8 mm for plate thickness 0.5 ... 3 mm

- 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

# Notes

Variants:

Safety information

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. 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.

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/.

#### **Electrical data**

https://www.wago.com/231-104/124-000

Ratings per IEC/EN	
Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	320 V
Rated impulse voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated impulse 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 / Polluti- on degree 2

## Ratings per III 1059

Ratings per UL 1059	
Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	15 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A

entry

0.08 ... 2.5 mm² / 28 ... 12 AWG

Ratings per UL 1977		Ratings per CSA	
Rated voltage (UL 1977)	600 V	Approvals per	CSA
Rated current UL 1977	15 A	Rated voltage CSA (Use Group B)	300 V
	Rated current CSA (Use Group B)	15 A	
		Rated voltage CSA (Use Group D)	300 V
		Rated current CSA (Use Group D)	10 A

### Connection data

Connection data			
Connection points	4	Connection 1	
Total number of potentials	4	Connection techn	hology CAGE CLAMP*
Number of connection types	1	Actuation type	Operating tool
Number of levels	1	Actuation direction	n 1 Operation parallel to conductor entry
		Actuation direction	n 2 Operation perpendicular to conductor

Fine-stranded conductor	0.08 2.5 mm² / 28 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 1.5 mm²
Fine-stranded conductor; with uninsula- ted ferrule	0.25 2.5 mm <sup>2</sup>
Strip length	8 9 mm / 0.31 0.35 inches
Pole number	4
Conductor entry direction to mating di- rection	0 °

Solid conductor

Physical data	
Pin spacing	5 mm / 0.197 inches
Width	42 mm / 1.654 inches
Height	14.3 mm / 0.563 inches
Depth	26.45 mm / 1.041 inches



https://www.wago.com/231-104/124-000



Mechanical data	
Variable coding	Yes
Housing sheet thickness	0.5 3 mm / 0.02 0.118 inches
Mounting type	Snap-in flange Feed-through mounting
Anti-rotation protection	Yes

Plug-in connection	
Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor
Mismating protection	No

Material data	
Note (material data)	
	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper alloy
Contact plating	Tin
Fire load	0.249 MJ
Weight	9.9 g

Environmental requirements	
Limit temperature range	-60 +85 °C
Processing temperature	-35 +60 °C

Commercial data	
PU (SPU)	100 pcs
Country of origin	DE
GTIN	4066966277685
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status

Compliant,No Exemption

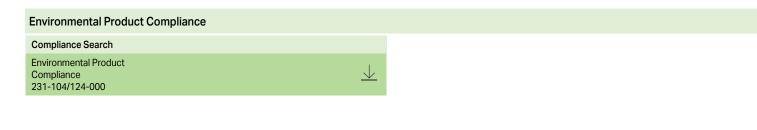
### Approvals / Certificates

General approvals

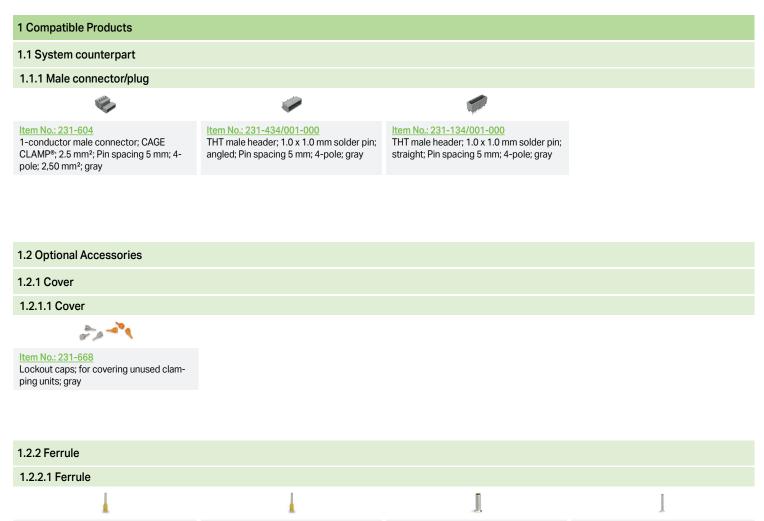
SP:		
Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-39756/A1
CSA DEKRA Certification B.V.	C22.2	1466354

https://www.wago.com/231-104/124-000





Documentation			
Additional Information			
Technical Section	03.04.2019	pdf 1949.09 KB	$\downarrow$



Item No.: 216-301 Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow

Item No.: 216-302 Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise

Item No.: 216-321

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow

Item No.: 216-322 Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise

Item No.: 216-151 Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24;

Item No.: 216-132

uninsulated; electro-tin plated

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24;

uninsulated; electro-tin plated

#### Item No.: 216-131

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored

Item No.: 216-152

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated

https://www.wago.com/231-104/124-000





Item No.: 216-106

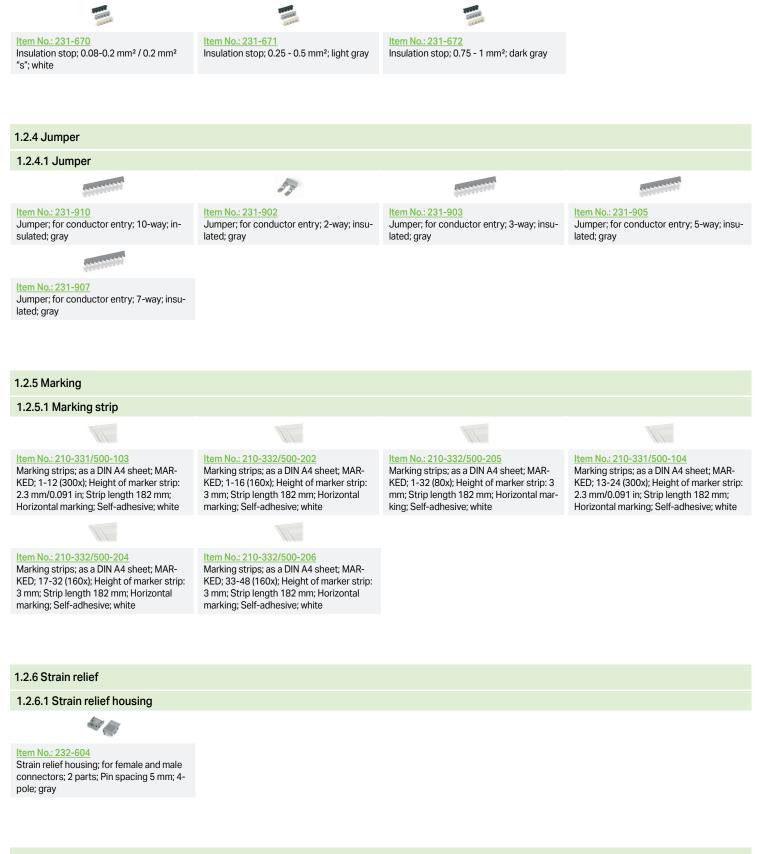
Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; uninsulated; electro-tin plated; silver-colored

1.2.3 Insulation stop

https://www.wago.com/231-104/124-000

1.2.3.1 Insulation stop





#### 1.2.7 Test and measurement

https://www.wago.com/231-104/124-000



### 1.2.7.1 Testing accessories



#### Item No.: 231-661





#### Installation Notes

#### **Conductor termination**



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 tool (231-291).



Inserting a conductor via operating tool.

#### Coding



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

https://www.wago.com/231-104/124-000







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





Male connector with strain relief plate

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

### Marking



Labeling via direct marking or self-adhesive strips.

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