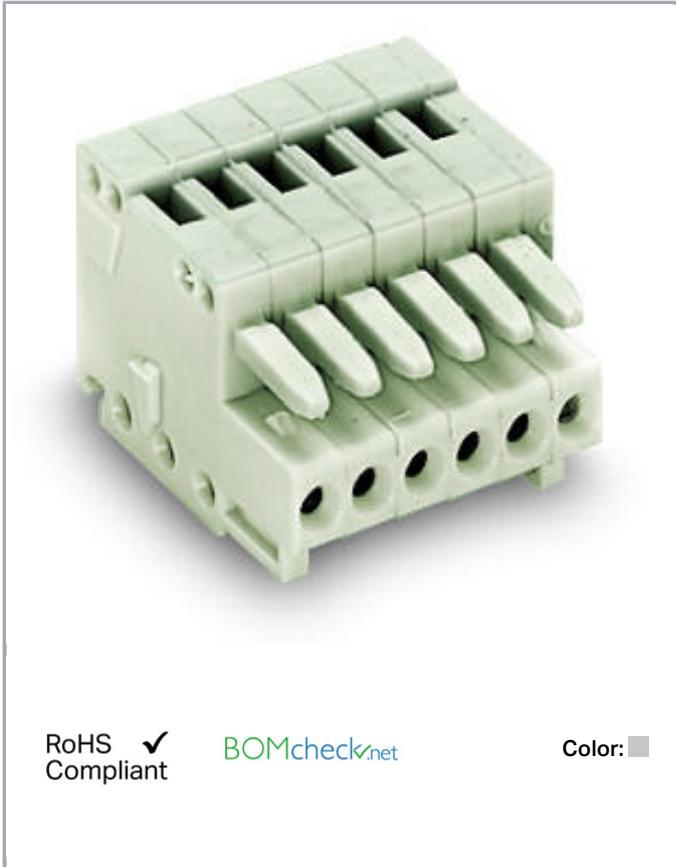


**Data sheet | Item number: 733-103**

1-conductor female plug; 100% protected against mismatching; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm; 3-pole; 0,50 mm<sup>2</sup>; light gray

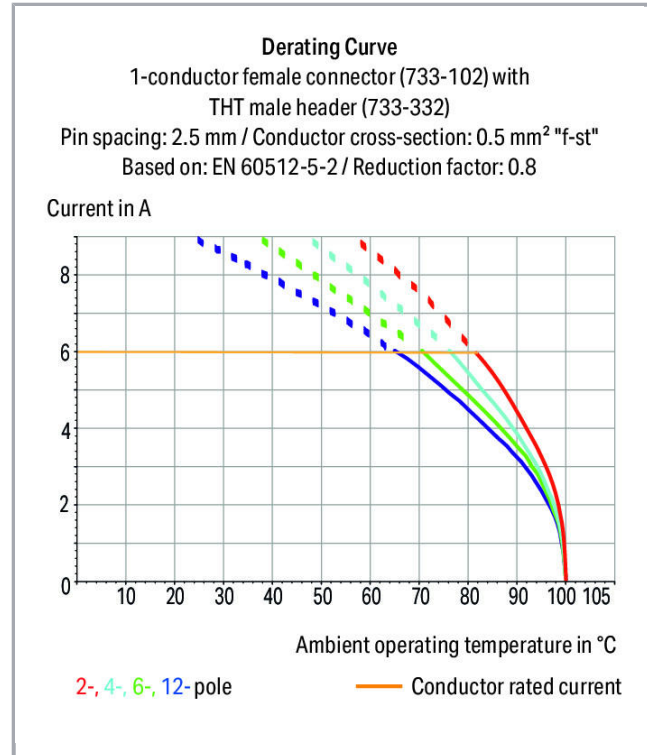
[www.wago.com/733-103](http://www.wago.com/733-103)



RoHS  Compliant

BOMcheck.net

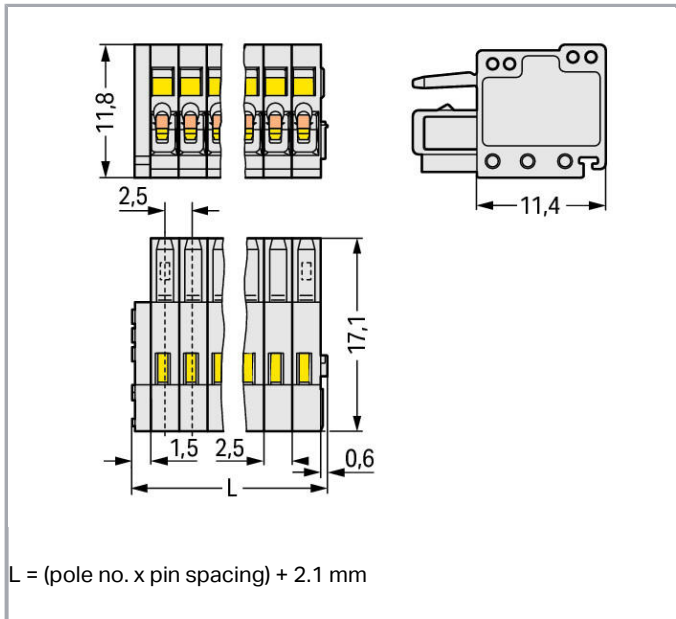
Color:



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

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### Item description

- Universal connection for all conductor types
- Easy cable pre-assembly and on-unit wiring via vertical and horizontal CAGE CLAMP® actuation
- Strain relief plates for factory and in-the-field assembly
- 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

#### Ratings per IEC/EN 60664-1

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	100 V
Rated impulse voltage (III / 3)	2.5 kV
Rated voltage (III / 2)	160 V
Rated impulse voltage (III / 2)	2.5 kV
Rated voltage (II / 2)	320 V

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

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Rated impulse voltage (II / 2)	2.5 kV
Rated current	6 A
Legend (ratings)	(III / 2) $\triangleq$ Overvoltage category III / Pollution degree 2

### Approvals per UL 1059

Rated voltage UL (Use Group B)	150 V
Rated current UL (Use Group B)	4 A
Approvals per	UL 1059

### Approvals per CSA

Rated voltage CSA (Use Group B)	150 V
Rated current CSA (Use Group B)	4 A

### Connection data

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Solid conductor	0,08 ... 0,5 mm <sup>2</sup> / 28 ... 20 AWG
Fine-stranded conductor	0,08 ... 0,5 mm <sup>2</sup> / 28 ... 20 AWG
Fine-stranded conductor with ferrule with plastic collar	0,25 ... 0,34 mm <sup>2</sup>
Fine-stranded conductor with ferrule without plastic collar	0,25 ... 0,34 mm <sup>2</sup>
Strip length	5 ... 6 mm / 0.2 ... 0.24 inch
No. of poles	3
Total number of connection points	3
Total number of potentials	3
Number of connection types	1
Number of levels	1
Conductor entry direction to mating direction	0°

### Geometrical Data

Pin spacing	2,5 mm / 0.098 inch
Width	9,6 mm / 0.378 inch
Height	11,8 mm / 0.465 inch
Depth	17,1 mm / 0.673 inch

### Plug connection

Contact type (pluggable connector)	Female connector/socket
------------------------------------	-------------------------

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

Connector connection type	for conductor
Mismating protection	Yes

## Material Data

Color	light gray
Material group	I
Insulating material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper alloy
Contact plating	tin-plated
Fire load	0.027 MJ
Weight	1.4 g

## Environmental Requirements



Limit temperature range	-60 ... +100 °C
-------------------------	-----------------

## Commercial data

Product Group	3 (Multi Conn. System)
Packaging type	BOX
Country of origin	DE
GTIN	4044918293976
Customs Tariff No.	85366990990




## Approvals / Certificates

### Country specific Approvals



Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	IEC 61984	NL-31141
	CCA DEKRA Certification B.V.	EN 61984	2169534.01
	CSA DEKRA Certification B.V.	C22.2	1465035

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




Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>ABS</b> American Bureau of Shipping	-	19- HG1869876- PDA
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z
	<b>LR</b> Lloyds Register	IEC 61984	96/20035 (E5)

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>UL</b> UL International Germany GmbH	UL 1977	E45171
	<b>UR</b> Underwriters Laboratories Inc.	UL 1059	20190122- E45172

Counterpart

	<b>Item no.733-203</b> 1-conductor male connector; 100% protected against mismatching; 0.5 mm <sup>2</sup> ; Pin spacing 2.5 mm; 3-pole; 0,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/733-203">www.wago.com/733-203</a>
	<b>Item no.733-203/032-000</b> 1-conductor male connector; 100% protected against mismatching; Strain relief plate; 0.5 mm <sup>2</sup> ; Pin spacing 2.5 mm; 3-pole; 0,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/733-203/032-000">www.wago.com/733-203/032-000</a>
	<b>Item no.733-333</b> THT male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Pin spacing 2.5 mm; 3-pole; light gray	<a href="http://www.wago.com/733-333">www.wago.com/733-333</a>

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



**Item no.733-333/105-604**

THR male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Pin spacing 2.5 mm; 3-pole; black

[www.wago.com/733-333/105-604](http://www.wago.com/733-333/105-604)



**Item no.733-363**

THT male header; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Pin spacing 2.5 mm; 3-pole; light gray

[www.wago.com/733-363](http://www.wago.com/733-363)



**Item no.733-333/105-604/997-446**

THR male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; in tape-and-reel packaging; Pin spacing 2.5 mm; 3-pole; black

[www.wago.com/733-333/105-604/997-446](http://www.wago.com/733-333/105-604/997-446)



**Item no.733-363/105-604**

THR male header; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Pin spacing 2.5 mm; 3-pole; black

[www.wago.com/733-363/105-604](http://www.wago.com/733-363/105-604)



**Item no.733-363/105-604/997-406**

THR male header; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; in tape-and-reel packaging; Pin spacing 2.5 mm; 3-pole; black

[www.wago.com/733-363/105-604/997-406](http://www.wago.com/733-363/105-604/997-406)

## Compatible products

### ferrule

**Item no.: 216-131**

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

[www.wago.com/216-131](http://www.wago.com/216-131)



**Item no.: 216-132**

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

[www.wago.com/216-132](http://www.wago.com/216-132)



**Item no.: 216-151**

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

[www.wago.com/216-151](http://www.wago.com/216-151)

**Item no.: 216-152**

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

[www.wago.com/216-152](http://www.wago.com/216-152)

**Item no.: 216-301**

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

[www.wago.com/216-301](http://www.wago.com/216-301)



**Item no.: 216-302**

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; green

[www.wago.com/216-302](http://www.wago.com/216-302)

**Item no.: 216-321**

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

[www.wago.com/216-321](http://www.wago.com/216-321)

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

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**Item no.: 216-322**Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; green[www.wago.com/216-322](http://www.wago.com/216-322)**Marking accessories****Item no.: 210-331/250-202**

Marking strips; as a DIN A4 sheet; MARKED; 1-16 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

[www.wago.com/210-331/250-202](http://www.wago.com/210-331/250-202)**Item no.: 210-331/250-204**

Marking strips; as a DIN A4 sheet; MARKED; 17-32 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

[www.wago.com/210-331/250-204](http://www.wago.com/210-331/250-204)**Item no.: 210-331/250-206**

Marking strips; as a DIN A4 sheet; MARKED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

[www.wago.com/210-331/250-206](http://www.wago.com/210-331/250-206)**Item no.: 210-331/250-207**

Marking strips; as a DIN A4 sheet; MARKED; 1-48 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

[www.wago.com/210-331/250-207](http://www.wago.com/210-331/250-207)**tools****Item no.: 210-251**

Operating tool; for MCS MICRO &amp; MINI with CAGE CLAMP® connection; yellow

[www.wago.com/210-251](http://www.wago.com/210-251)**Item no.: 210-719**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

[www.wago.com/210-719](http://www.wago.com/210-719)**Item no.: 233-331**

Operating tool; insulated; yellow

[www.wago.com/233-331](http://www.wago.com/233-331)**Item no.: 233-332**

Operating tool; made of insulating material

[www.wago.com/233-332](http://www.wago.com/233-332)**Item no.: 233-335**

Operating tool

[www.wago.com/233-335](http://www.wago.com/233-335)**Item no.: 733-130**

Operating tool; loose; natural

[www.wago.com/733-130](http://www.wago.com/733-130)**Item no.: 733-191**

Operating tool; loose; yellow

[www.wago.com/733-191](http://www.wago.com/733-191)**Strain relief plate****Item no.: 734-127**

Strain relief plate; light gray

[www.wago.com/734-127](http://www.wago.com/734-127)**Test Accessories****Item no.: 735-500**

Test pin; 1 mm Ø; with solder connection for test wire

[www.wago.com/735-500](http://www.wago.com/735-500)

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

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## Downloads

### Documentation

#### Additional Information

Technical explanations	Apr 3, 2019	pdf 3.6 MB	Download
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## CAD/CAE-Data

### CAD data

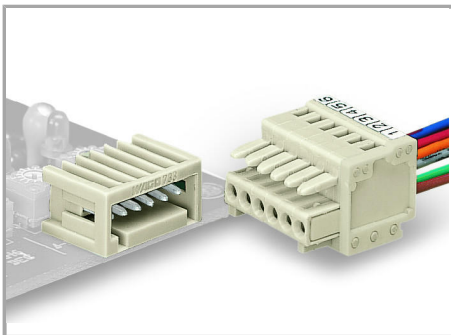
2D/3D Models 733-103	URL	Download
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### CAE data

EPLAN Data Portal 733-103	URL	Download
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## Installation Notes

### Protected Against Mismatching



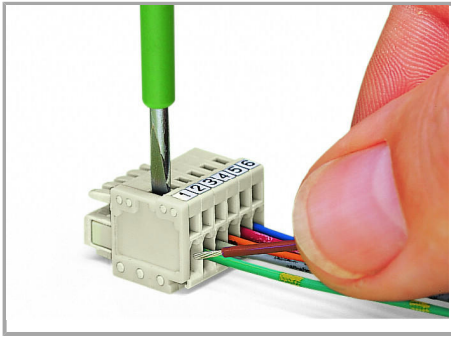
Male headers and female connectors are 100 % protected against mismatching.

Only mating halves with the same pole number can be connected.

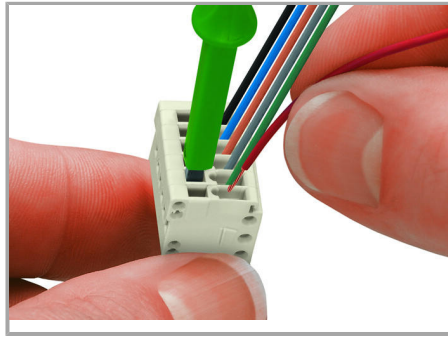
### Inserting a conductor

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

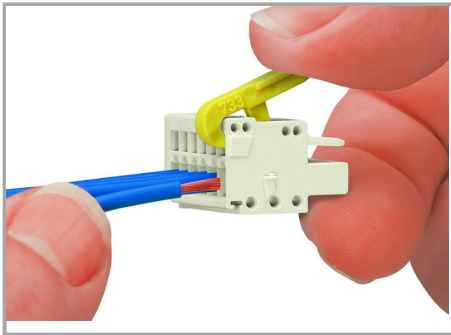
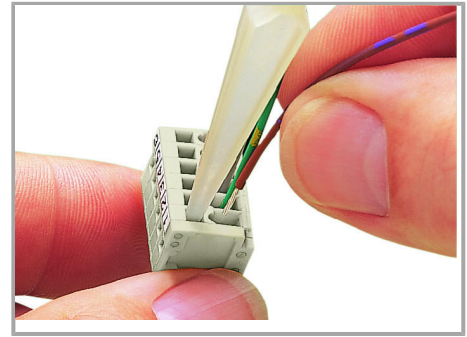




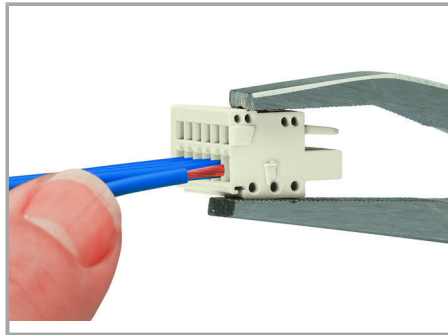
Inserting a conductor via (2.5 x 0.4) mm screwdriver. Operation is performed perpendicular to conductor entry.



Inserting a conductor via screwdriver (233-335) – CAGE CLAMP® actuation parallel to conductor entry.

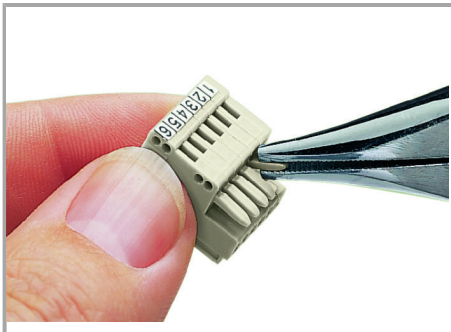


Inserting a conductor via 733-191 Operating Lever.



Inserting a conductor via 210-251 Operating Tool.

### Coding

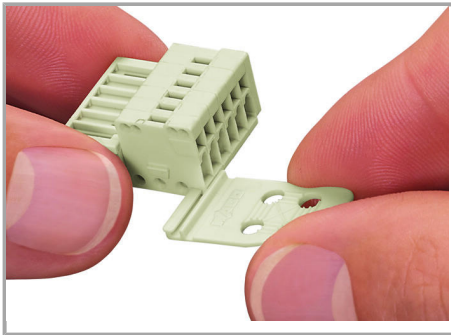


Coding a female connector – removing coding finger(s).

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

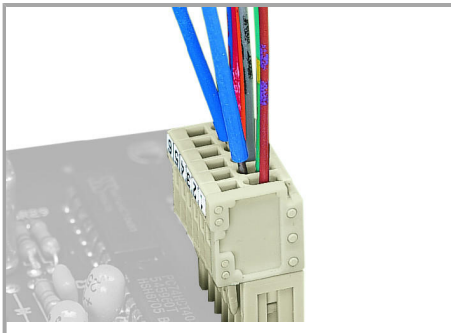


#### Assembly



Strain relief plates for factory or in-the-field assembly.

#### Testing



Testing via 1 mm Ø test pin ( 735-500) – touch contact.

#### Product family

**<i>MCS</i> MICRO**

[Learn more about the product family.](#)

[Show all products from the family](#)

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