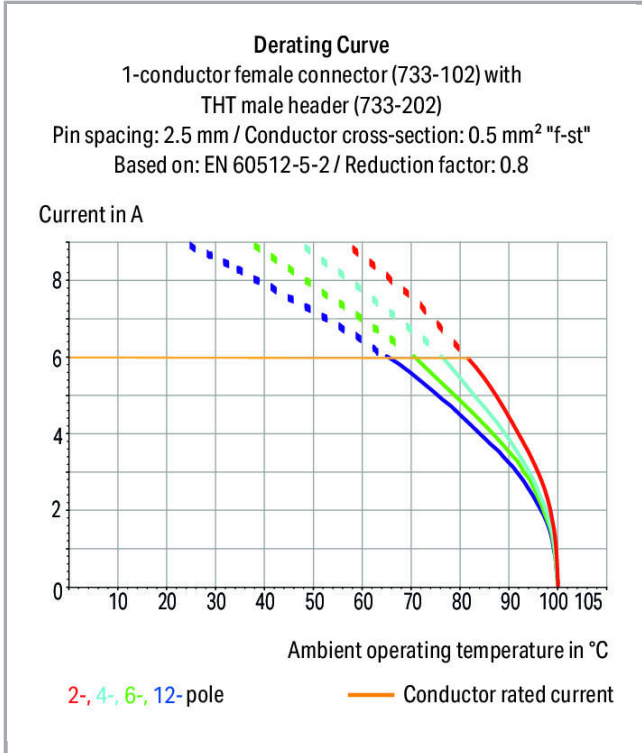


**Data sheet | Item number: 733-203**

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

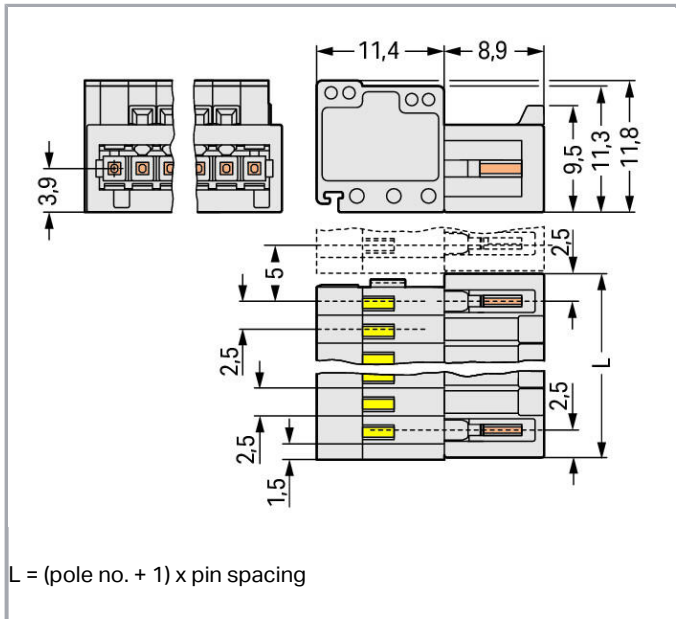
[www.wago.com/733-203](http://www.wago.com/733-203)



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

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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
- For wire-to-wire connections
- 100% protected against mismatching
- Coding via coding fingers

## Safety information 1:

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS 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.

## Data

### Electrical data

### Ratings per IEC/EN 60664-1

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

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



Rated surge 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 insulated ferrule	0,25 ... 0,34 mm <sup>2</sup>
Fine-stranded conductor; with uninsulated ferrule	0,25 ... 0,34 mm <sup>2</sup>
Strip length	5 ... 6 mm / 0.2 ... 0.24 inch
Pole No.	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	10 mm / 0.394 inch
Height	11,8 mm / 0.465 inch
Depth	20,3 mm / 0.799 inch

### Plug connection

Contact type (pluggable connector)	Male connector/plug
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Subject to changes. Please also observe the further product documentation!

Connector (connection type)	for conductors
Mismating protection	Yes

### Material Data

Color	light gray
Material group	I
Insulation material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0.034 MJ
Weight	1.7 g

### Environmental Requirements



Limit temperature range	-60 ... +100 °C
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### Commercial data

Product Group	3 (Multi Conn. System)
Packaging type	BOX
Country of origin	PL
GTIN	4044918849531
Customs tariff number	85366990990




### Approvals / Certificates

#### Country specific Approvals



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

#### Ship Approvals



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

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.733-103</b> 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	<a href="http://www.wago.com/733-103">www.wago.com/733-103</a>
	<b>Item no.733-103/037-000</b> 1-conductor female plug; 100% protected against mismatching; Locking lever; 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/733-103/037-000">www.wago.com/733-103/037-000</a>

#### Compatible products

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







## tools

	<b>Item no.: 210-251</b> Operating tool; for MCS MICRO & MINI with CAGE CLAMP® connection; yellow	<a href="http://www.wago.com/210-251">www.wago.com/210-251</a>
	<b>Item no.: 210-719</b> Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	<a href="http://www.wago.com/210-719">www.wago.com/210-719</a>
	<b>Item no.: 233-331</b> Operating tool; insulated; yellow	<a href="http://www.wago.com/233-331">www.wago.com/233-331</a>
	<b>Item no.: 233-332</b> Operating tool; made of insulating material	<a href="http://www.wago.com/233-332">www.wago.com/233-332</a>
	<b>Item no.: 233-335</b> Operating tool	<a href="http://www.wago.com/233-335">www.wago.com/233-335</a>
	<b>Item no.: 733-130</b> Operating tool; loose; natural	<a href="http://www.wago.com/733-130">www.wago.com/733-130</a>
	<b>Item no.: 733-191</b> Operating tool; loose; yellow	<a href="http://www.wago.com/733-191">www.wago.com/733-191</a>

## Strain relief plate

	<b>Item no.: 734-127</b> Strain relief plate; light gray	<a href="http://www.wago.com/734-127">www.wago.com/734-127</a>
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## ferrule

	<b>Item no.: 216-131</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated	<a href="http://www.wago.com/216-131">www.wago.com/216-131</a>
	<b>Item no.: 216-132</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated	<a href="http://www.wago.com/216-132">www.wago.com/216-132</a>
	<b>Item no.: 216-151</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated	<a href="http://www.wago.com/216-151">www.wago.com/216-151</a>
	<b>Item no.: 216-152</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated	<a href="http://www.wago.com/216-152">www.wago.com/216-152</a>
	<b>Item no.: 216-301</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow	<a href="http://www.wago.com/216-301">www.wago.com/216-301</a>
	<b>Item no.: 216-302</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green	<a href="http://www.wago.com/216-302">www.wago.com/216-302</a>
	<b>Item no.: 216-321</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow	<a href="http://www.wago.com/216-321">www.wago.com/216-321</a>
	<b>Item no.: 216-322</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green	<a href="http://www.wago.com/216-322">www.wago.com/216-322</a>

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

check



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)

Coding



Item no.: 733-330  
Coding key; snap-on type; white

[www.wago.com/733-330](http://www.wago.com/733-330)



Item no.: 733-331  
Coding key; snap-on type; black

[www.wago.com/733-331](http://www.wago.com/733-331)

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 733-203	URL	Download
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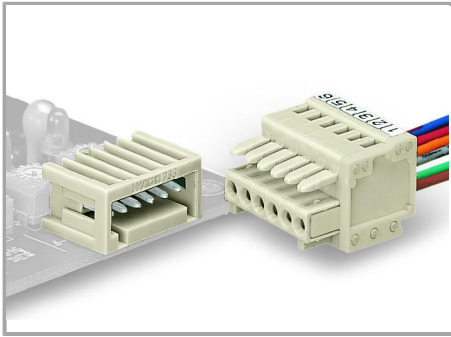
CAE data

EPLAN Data Portal 733-203	URL	Download
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Installation Notes

Protected Against Mismatching

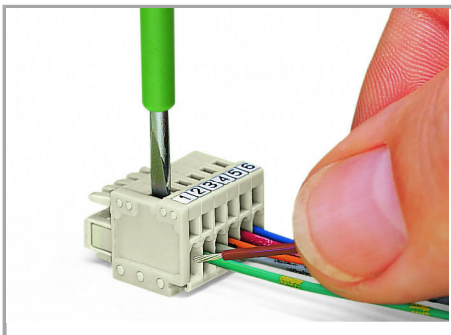
Subject to changes. Please also observe the further product documentation!



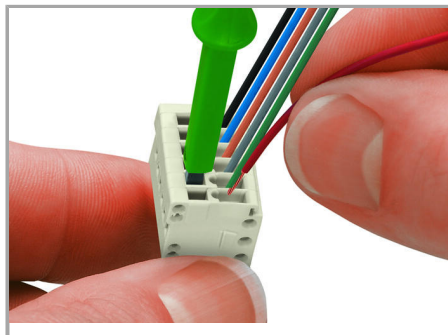
Male headers and female connectors are 100 % protected against mismatching.

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

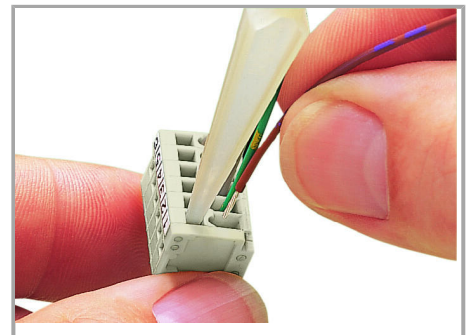
#### Inserting a conductor



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

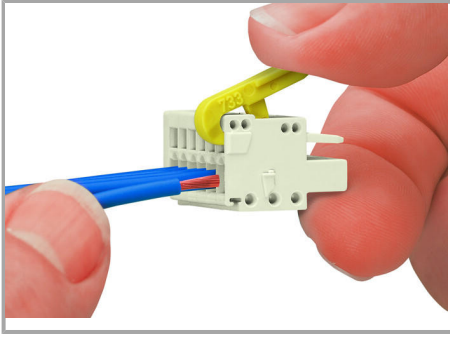


Inserting a conductor via screwdriver (233-335) – CAGE CLAMP® actuation parallel to conductor entry.

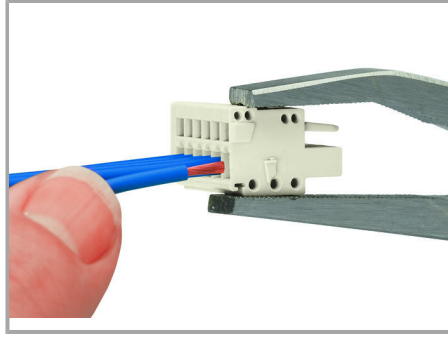


Subject to changes. Please also observe the further product documentation!



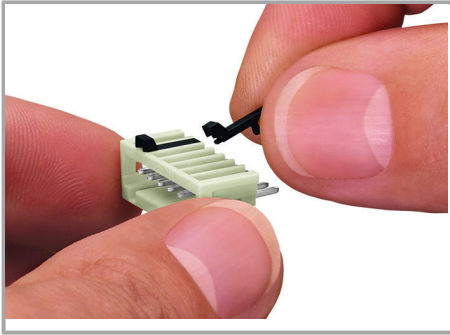


Inserting a conductor via 733-191 Operating Lever.

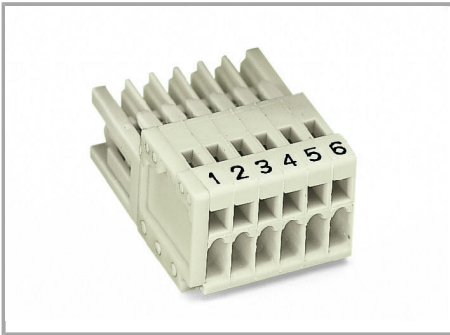


Inserting a conductor via 210-251 Operating Tool.

### Coding

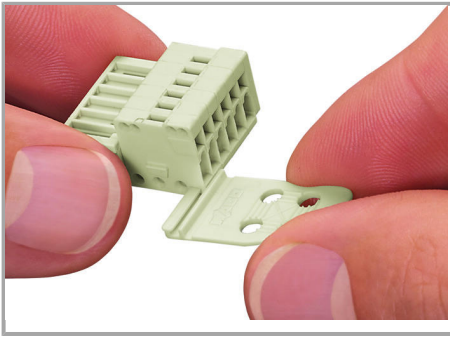


Coding a male header – fitting coding key(s).



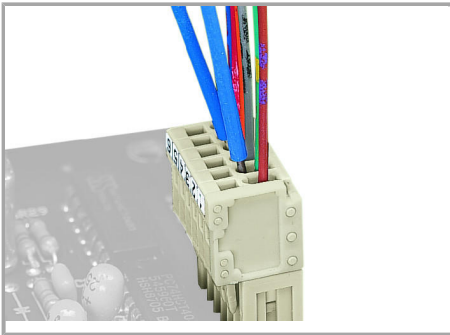
### Assembly

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



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

### Testing



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

### Product family

[\*MCS\*](#) MICRO

[Show all products from the family](#)

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