

Data sheet | Item number: 733-104

1-conductor female connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 4-pole; 100% protected against mismating; 0,50 mm²; light gray

www.wago.com/733-104



 Picture differs from the item.

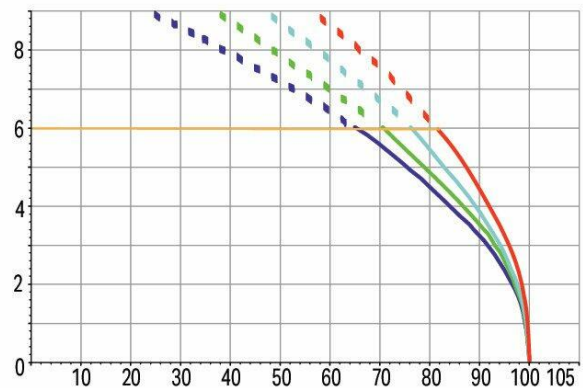
Color: 

Derating Curve

1-conductor female connector (733-102) with
THT male header (733-332)

Pin spacing: 2.5 mm / Conductor cross-section: 0.5 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 0.8

Current in A



Ambient operating temperature in °C

2-, 4-, 6-, 12-pole

— Conductor rated current

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

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Germantown, WI 53022
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Dimensions in mm

$L = (\text{pole no.} \times \text{pin spacing}) + 2.1 \text{ mm}$

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 field assembly
- 100% protected against mismatching
- Coding option available

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

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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:

Other pole numbers
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

Approvals per	UL 1059
Rated voltage UL (Use Group B)	150 V
Rated current UL (Use Group B)	4 A
Approvals per	CSA
Rated voltage CSA (Use Group B)	150 V
Rated current CSA (Use Group B)	4 A
Ratings per	IEC/EN 60664-1
Rated 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
Rated surge voltage (II/2)	2.5 kV
Rated current	6 A
Legend (ratings)	(III / 2) $\triangle$ Overvoltage category III / Pollution degree 2

Connection data

Total number of connection points	4
Total number of potentials	4
Number of connection types	1
Number of levels	1
Connection technology	CAGE CLAMP®
Actuation type	Operating tool

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Solid conductor	0.08 ... 0.5 mm ² / 28 ... 20 AWG
Fine-stranded conductor	0.08 ... 0.5 mm ² / 28 ... 20 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 0.34 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 0.34 mm ²
Strip length	5 ... 6 mm / 0.2 ... 0.24 inch
Number of poles	4
Conductor entry direction to mating direction	0°

Physical data

Pin spacing	2.5 mm / 0.098 inch
Width	12.1 mm / 0.476 inch
Height	11.8 mm / 0.465 inch
Depth	17.1 mm / 0.673 inch

Plug-in connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor
Mismating protection	Yes
Locking of plug-in connection	Without

Material data

Color	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper alloy
Contact plating	tin-plated
Fire load	0.034 MJ
Weight	1.8 g

Environmental requirements

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

Product Group	3 (Multi Conn. System)
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PU (SPU)	200 Stück
Packaging type	box
Country of origin	DE
GTIN	4044918294003
Customs tariff number	8536694040

Approvals / Certificates

Country specific Approvals

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

Ship Approvals

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

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Germany GmbH	UL 1977	E45171

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UR
Underwriters Laboratories Inc.

UL 1059

E45172

Counterpart



Item no. 733-204

1-conductor male connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 4-pole; 100% protected against mismatching; 0,50 mm²; light gray

www.wago.com/733-204


Item no. 733-204/032-000

1-conductor male connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 4-pole; 100% protected against mismatching; Strain relief plate; 0,50 mm²; light gray

www.wago.com/733-204/032-000


Item no. 733-334/105-604

THR male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Pin spacing 2.5 mm; 4-pole; black

www.wago.com/733-334/105-604


Item no. 733-334

THT male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Pin spacing 2.5 mm; 4-pole; light gray

www.wago.com/733-334


Item no. 733-334/105-604/997-446

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; 4-pole; black

www.wago.com/733-334/105-604/997-446


Item no. 733-364

THT male header; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Pin spacing 2.5 mm; 4-pole; light gray

www.wago.com/733-364


Item no. 733-364/105-604

THR male header; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Pin spacing 2.5 mm; 4-pole; black

www.wago.com/733-364/105-604


Item no. 733-364/105-604/997-406

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; 4-pole; black

www.wago.com/733-364/105-604/997-406

Optional accessories

Testing accessories

Testing accessories



Item no.: 735-500

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

www.wago.com/735-500

Tools

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Operating tool

**Item no.: 210-251**

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

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**Item no.: 233-332**

Operating tool; made of insulating material; white

www.wago.com/233-332**Item no.: 233-331**

Operating tool; insulated; yellow

www.wago.com/233-331**Item no.: 233-335**

Operating tool; yellow

www.wago.com/233-335**Item no.: 733-191**

Operating tool; made of insulating material; 1-way; loose; yellow

www.wago.com/733-191**Item no.: 733-130**

Operating tool; made of insulating material; 1-way; loose; white

www.wago.com/733-130

Strain relief

Strain relief plate

**Item no.: 734-127**

Strain relief plate; light gray

www.wago.com/734-127

Ferrules

Ferrule

**Item no.: 216-132**

Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated

www.wago.com/216-132**Item no.: 216-131**

Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored

www.wago.com/216-131**Item no.: 216-152**

Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated

www.wago.com/216-152**Item no.: 216-151**

Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated

www.wago.com/216-151**Item no.: 216-301**

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

www.wago.com/216-301**Item no.: 216-321**

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

www.wago.com/216-321**Item no.: 216-322**

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; green

www.wago.com/216-322

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

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**Item no.: 216-302**Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; greenwww.wago.com/216-302**Marking accessories**

Marking strip

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**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**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**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**Downloads****Documentation****Additional Information**

Technical explanations

Apr 3, 2019

pdf
2.0 MB

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CAD files**CAD data**

2D/3D Models 733-104

URL

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CAE data

EPLAN Data Portal 733-104

URL

Download

ZUKEN Portal 733-104

URL

Download

Environmental Product Compliance**Compliance Search**

Environmental Product Compliance 733-104

URL

Download

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

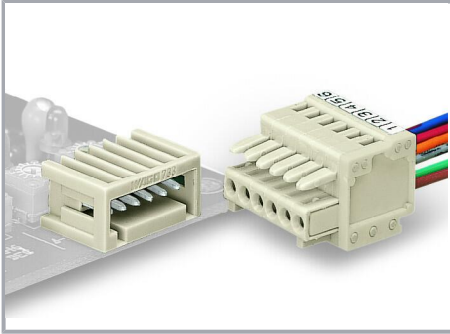
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100% protected against mismating; 0,50 mm²; light gray

Installation Notes

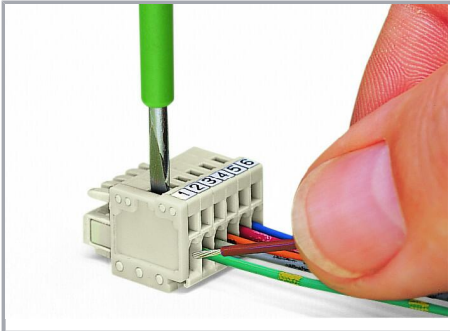
Mismating protection



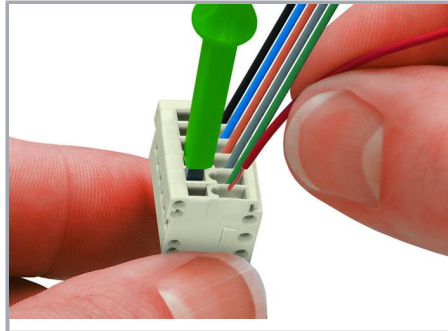
Male headers and female connectors are
100% protected against mismating.

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

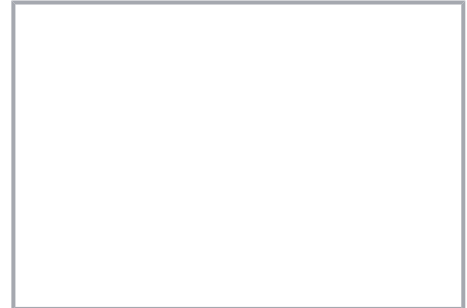
Conductor termination



Inserting conductor via (2.5 x 0.4) mm
screwdriver – CAGE CLAMP® actuation
perpendicular to conductor entry.



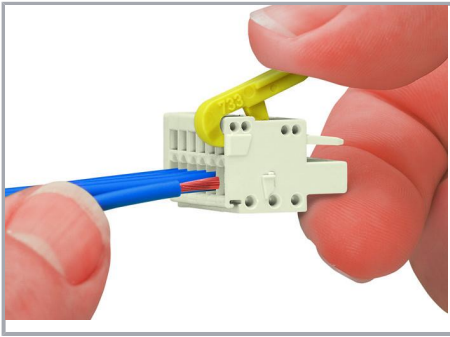
Conductor termination via screwdriver (233-
335) – parallel to CAGE CLAMP® actuation



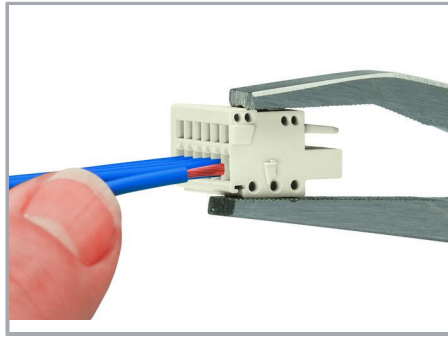
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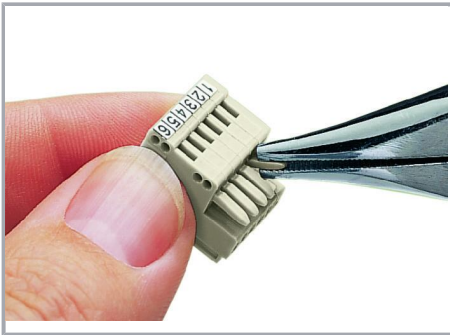


Conductor termination via operating tool
(733-191)



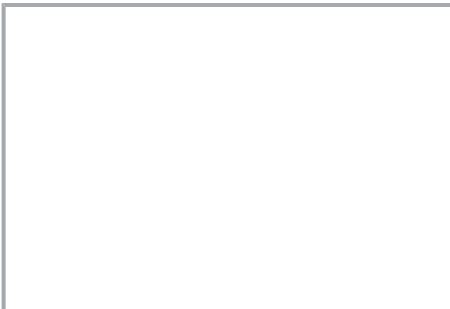
Conductor termination via operating tool
(210-251)

Coding



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

Marking

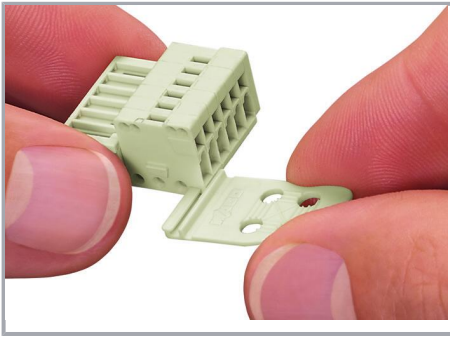


Installation

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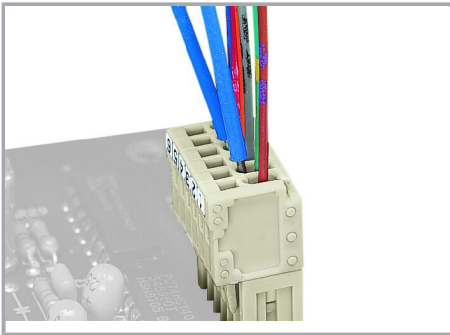
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Strain relief plates for factory or in-the-field assembly

Testing



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

Product family

MCS MICRO

[Show all products from the family](#)

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