

**Data sheet | Item number: 733-210**

1-conductor male connector; 100% protected against mismatching; 0.5 mm<sup>2</sup>;

Pin spacing 2.5 mm; 10-pole



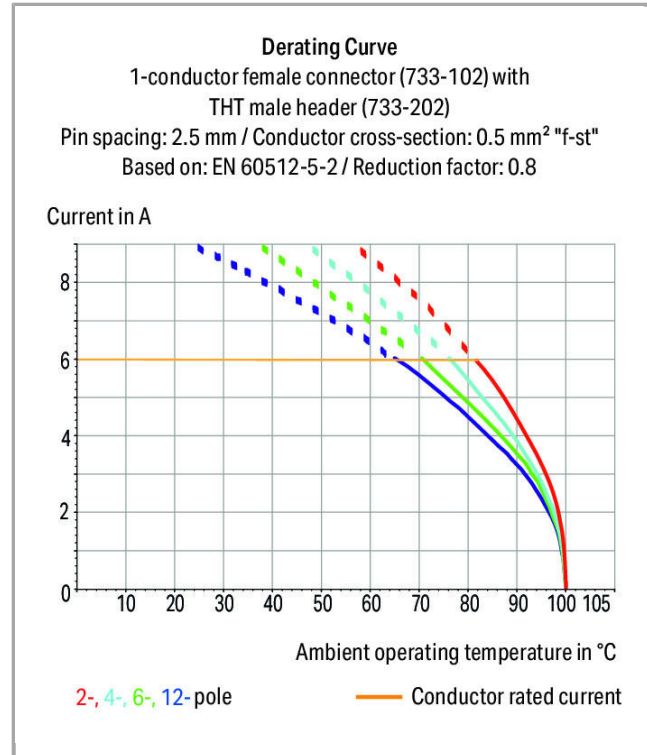
733-210

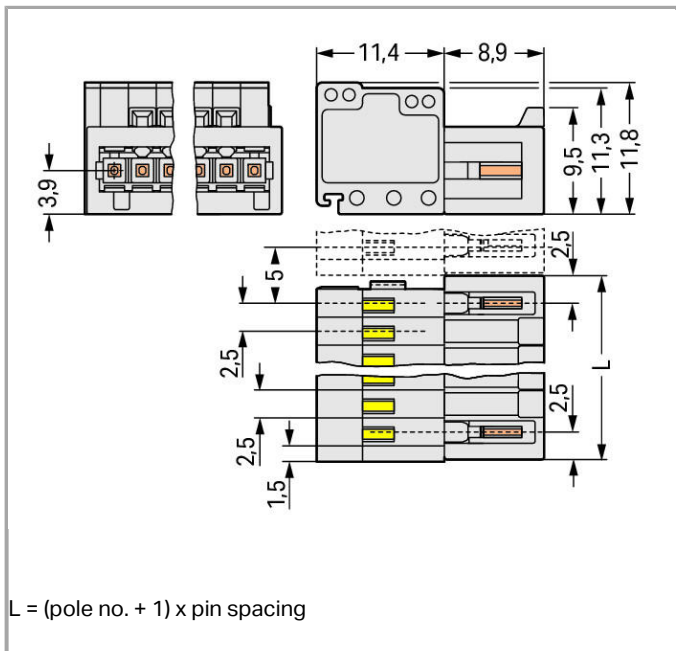


RoHS  Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color:





### 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

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
Rated impulse voltage (II / 2)	2.5 kV
Rated current	6 A

### 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

### 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	10
Total number of connection points	10
Total number of potentials	10
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	27.5 mm / 1.083 inch
Height	11.8 mm / 0.465 inch
Depth	20.3 mm / 0.799 inch

### Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector connection type	for conductors
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	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0.097 MJ
Weight	4.909 g

### Environmental Requirements




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


Product Group	3 (Multi Conn. System)
Country of origin	PL
GTIN	4044918849609
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
	CSA DEKRA Certification B.V.	C22.2	1465035

#### Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	14- HG1241537- PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z



## UL-Approvals







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

## Compatible products

## Strain relief plate

	Item no.: 734-129 Strain relief plate	734-129
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## ferrule

	Item no.: 216-131 Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated	216-131
	Item no.: 216-132 Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated	216-132
	Item no.: 216-151 Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated	216-151
	Item no.: 216-152 Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated	216-152
	Item no.: 216-301 Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated	216-301
	Item no.: 216-302 Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated	216-302
	Item no.: 216-321 Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated	216-321
	Item no.: 216-322 Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated	216-322

## check



**Item no.: 735-500**  
Test pin; 1 mm Ø; with solder connection for test wire

735-500

**Coding**



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

733-330



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

733-331

**tools**



**Item no.: 210-251**  
Operating tool; for female and male connectors with CAGE CLAMP® connection; MCS MINI & MICRO

210-251



**Item no.: 210-719**  
Operating tool with partially insulated shaft; Type 1, blade (2.5 x 0.4) mm

210-719



**Item no.: 233-331**  
Operating tool; for female and male connectors with CAGE CLAMP® connection; insulated

233-331



**Item no.: 233-332**  
Operating tool; for 233 and 733 Series; of insulating material

233-332



**Item no.: 233-335**  
Operating tool; for 233 and 733 Series

233-335



**Item no.: 733-130**  
Operating tool; for male and female connectors with CAGE CLAMP®; loose

733-130



**Item no.: 733-191**  
Operating tool; for male and female connectors with CAGE CLAMP®; loose

733-191

**Downloads**

**CAD/CAE - Smart Data**

**CAD data**

3D Download 733-210

URL

Download

Subject to changes.