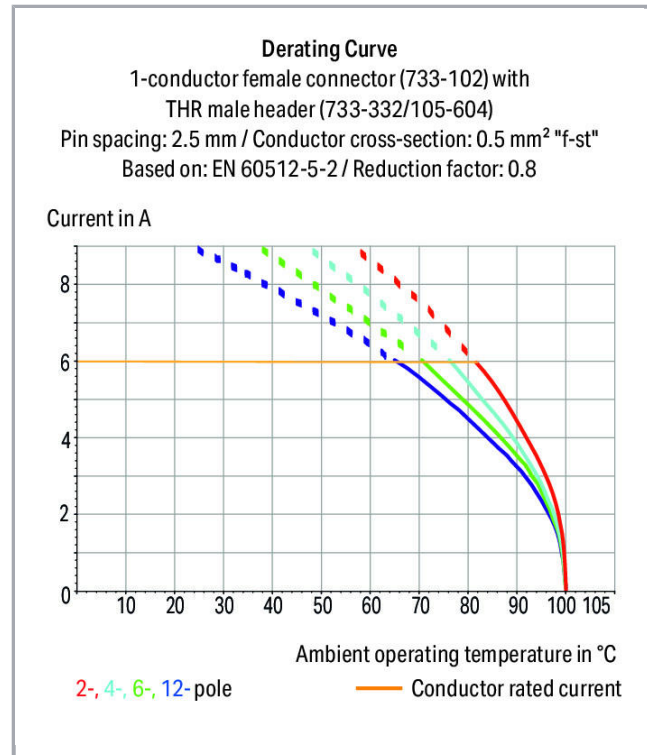


**Data sheet | Item number: 733-339/105-604**

THR male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Pin spacing 2.5 mm; 9-pole; black

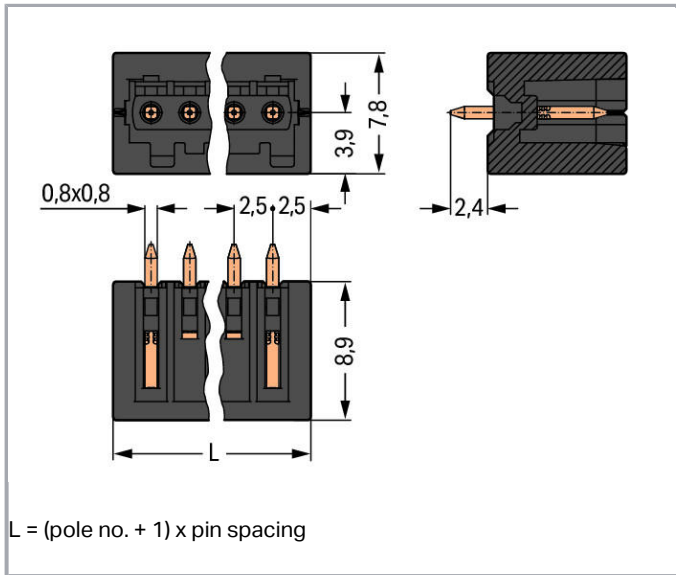
[www.wago.com/733-339/105-604](http://www.wago.com/733-339/105-604)



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

- THR male headers for reflow soldering in SMT applications
- Available in tape-and-reel packaging for automated pick-and-place PCB assembly
- Optimal thermal penetration via pin enclosure design provides lower soldering temperatures
- 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
Rated voltage (III / 3)	80 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

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



Rated current	6 A
Legend (ratings)	(III / 2) $\hat{=}$ 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

No. of poles	9
Total number of potentials	9
Number of connection types	1
Number of levels	1

### Geometrical Data

Pin spacing	2.5 mm / 0.098 inch
Width	25 mm / 0.984 inch
Height	11.3 mm / 0.445 inch
Height from the surface	8.9 mm / 0.35 inch
Depth	7.8 mm / 0.307 inch
Solder pin length	2.4 mm
Solder pin dimensions	0.8 x 0.8 mm
Plated through-hole diameter (THR)	1.2 <sup>(+0.1)</sup> mm

### Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector connection type	for PCBs
Mismating protection	Yes
Mating direction to the PCB	90°

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

## PCB contact

PCB contact	THR
Solder pin arrangement	over the entire male connector, in line
Number of solder pins per potential	1

## Material Data

Color	black
Material group	I
Insulating material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0.026 MJ
Weight	1.3 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	DE
GTIN	4045454676148
Customs Tariff No.	85366990990

## 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	C22.2	1465035

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





DEKRA Certification B.V.

## 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

## 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



Item no.733-109

1-conductor female plug; 100% protected against mismatching; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm; 9-pole; light gray[www.wago.com/733-109](http://www.wago.com/733-109)

## Compatible products

## Coding



Item no.: 733-331

Coding key; snap-on type; black

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

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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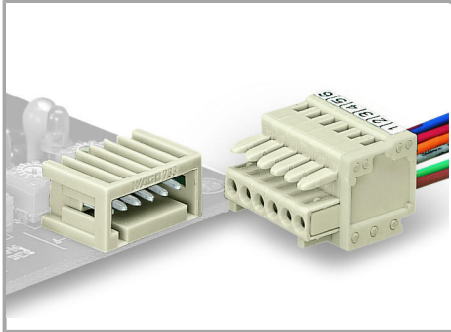
## CAD/CAE-Data

### CAD data

2D/3D Models 733-339/105-604	URL	Download
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## Installation Notes

### Protected Against Mismatching

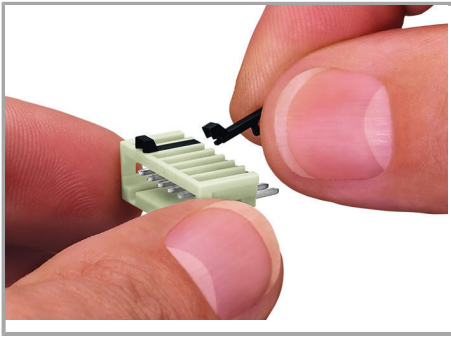


Male headers and female connectors are 100 % protected against mismatching.

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

### Coding

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



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

## Product family

*MCS* MICRO

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

[Show all products from the family](#)

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