

# Data Sheet | Item Number: 231-137/001-000/105-604/997-407

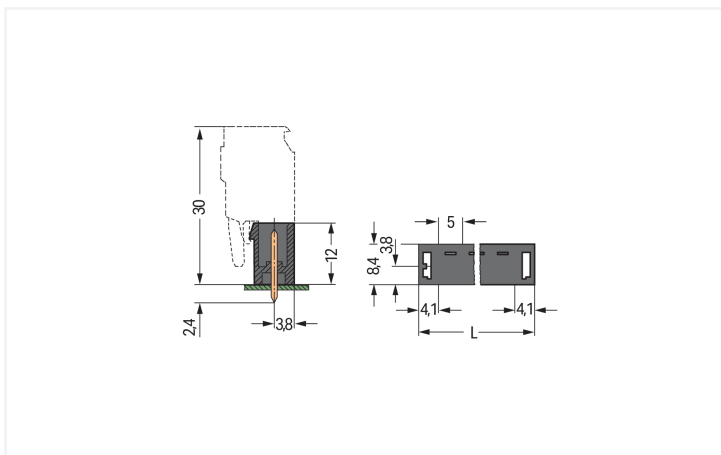
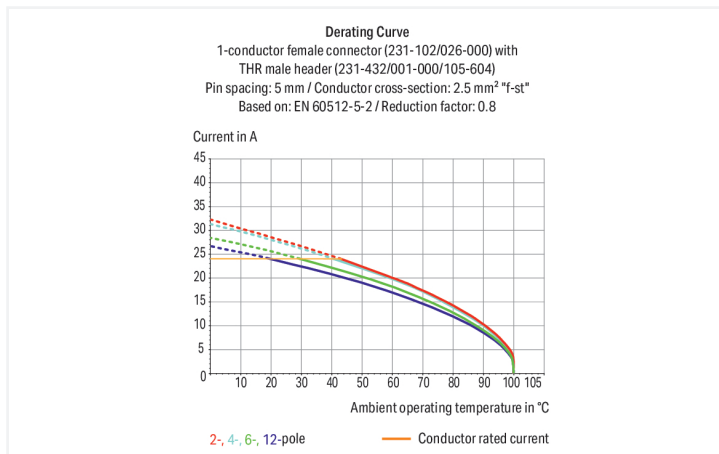
THR male header; 1.0 x 1.0 mm solder pin; straight; in tape-and-reel packaging; Pin spacing 5 mm; 7-pole; black

<https://www.wago.com/231-137/001-000/105-604/997-407>



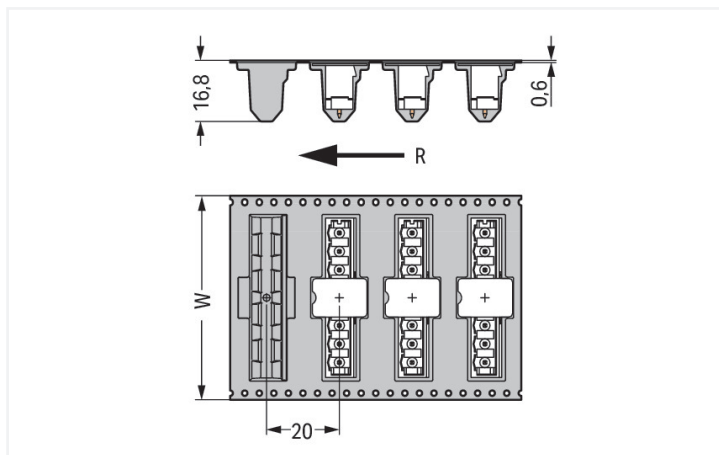
Color: ■ black

Similar to illustration



Dimensions in mm

L = (pole no. - 1) x pin spacing + 8.2 mm



Dimensions in mm

W = tape width R = feed direction

Male connector, 231 Series, solder pin dimensions 1 x 1 mm

This male connector (item number 231-137/001-000/105-604/997-407) is designed for seamless electrical installations. The dimensions are (38.2 x 14.4 x 8.4) mm (width x height x depth).

The contact surface is coated with tin. The pcb connector is designed for THR soldering.

## Notes

## Safety Information

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. 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

Ratings per		IEC/EN 60664-1			Approvals per		UL 1059		
Overvoltage category		III	III	II	Use group	B	C	D	
Pollution degree		3	2	2	Rated voltage	300 V	-	300 V	
Nominal voltage		320 V	320 V	630 V	Rated current	10 A	-	10 A	
Rated impulse withstand voltage		4 kV	4 kV	4 kV					
Rated current		12 A	12 A	12 A					

Approvals per		UL 1977			Approvals per		CSA		
Rated voltage		600 V			Use group	B	C	D	
Rated current		10 A			Rated voltage	300 V	-	300 V	
					Rated current	10 A	-	10 A	

## Connection Data

		Connection 1		
Total number of potentials	7	Pole number	7	
Number of connection types	1			
Number of levels	1			

## Physical data

Pin spacing	5 mm / 0.197 inches
Width	38.2 mm / 1.504 inches
Height	14.4 mm / 0.567 inches
Height from the surface	12 mm / 0.472 inches
Depth	8.4 mm / 0.331 inches
Solder pin length	2.4 mm
Solder pin dimensions	1 x 1 mm
Plated through-hole diameter (THR)	1.4 (+0.1) mm
Reel diameter of tape-and-reel packaging	330 mm
Tape width	56 mm

## Mechanical data

Variable coding	Yes
Anti-rotation protection	Yes

### Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	No
Mating direction to the PCB	90 °

### PCB contact

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

### Material data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	black
Material group	I
Insulation material (main housing)	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact Plating	Tin
Fire load	0.046 MJ
Weight	2.4 g
MSL per J-STD 020D	1

### Environmental requirements

Limit temperature range	-60 ... +100 °C
Processing temperature	-35 ... +60 °C

### Commercial data

Product Group	3 (Multi Conn. System)
PU (SPU)	170 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454928339
Customs tariff number	85366930000

### Product Classification

UNSPSC	39121409
ETIM 9.0	EC002637
ETIM 10.0	EC002637
ECCN	NO US CLASSIFICATION

**Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

**Approvals / Certificates**

**General approvals**



Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2	1466354

**Downloads**

**Environmental Product Compliance**

**Compliance Search**



**Documentation**

**Additional Information**

Technical Section	03.04.2019	pdf 2027.26 KB	
		pdf 535.32 KB	

**CAD/CAE-Data**

**CAD data**

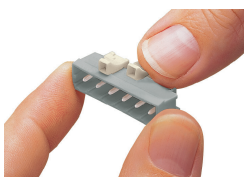


**PCB Design**



**Installation Notes**

**Coding**



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

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

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Current addresses can be found at: [www.wago.com](http://www.wago.com)