

**Data Sheet | Item Number: 733-342/105-604/997-446**

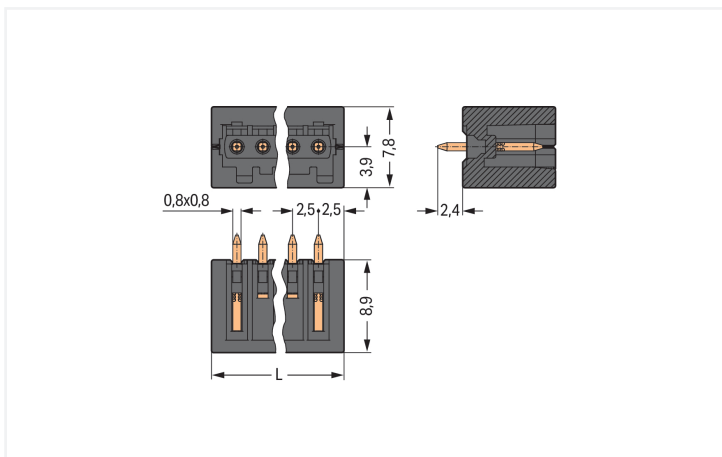
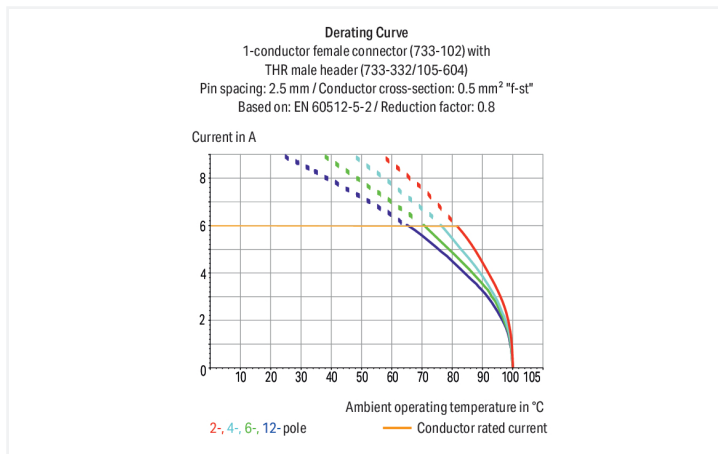
THR male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; in tape-and-reel packaging; Pin spacing 2.5 mm; 12-pole; black

<https://www.wago.com/733-342/105-604/997-446>

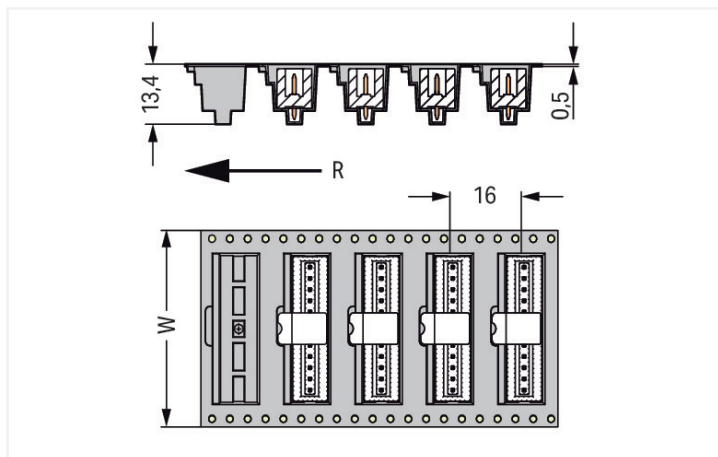


Color: ■ black

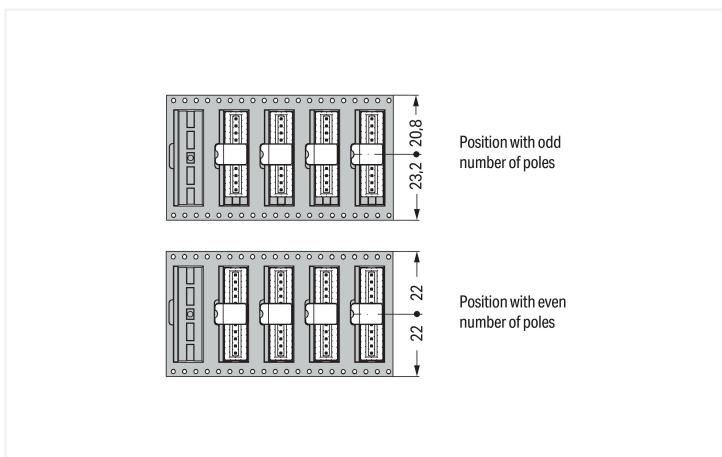
Similar to illustration



Dimensions in mm  
L = (pole no. + 1) x pin spacing



Dimensions in mm  
W = tape width R = feed direction



Dimensions in mm  
Pin position in tape-and-reel packaging

Male connector, 733 Series, with 2.5 mm pin spacing

This male connector (item number 733-342/105-604/997-446) simplifies electrical installations. Dimensions: (32.5 x 11.3 x 7.8) mm (width x height x depth).

Tin is used for coating the contact surfaces. THR is used to solder the pcb connector.

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 Other solder pin lengths Gold-plated or partially gold-plated contact surfaces Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .

### 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	150 V	-	-
Nominal voltage	80 V	160 V	320 V	Rated current	4 A	-	-
Rated impulse withstand voltage	2.5 kV	2.5 kV	2.5 kV				
Rated current	6 A	6 A	6 A				

Approvals per	CSA		
Use group	B	C	D
Rated voltage	150 V	-	-
Rated current	4 A	-	-

### Connection Data

Total number of potentials	12	<b>Connection 1</b>	
Number of connection types	1	Pole number	12
Number of levels	1		

### Physical data

Pin spacing	2.5 mm / 0.098 inches
Width	32.5 mm / 1.28 inches
Height	11.3 mm / 0.445 inches
Height from the surface	8.9 mm / 0.35 inches
Depth	7.8 mm / 0.307 inches
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
Reel diameter of tape-and-reel packaging	330 mm
Tape width	44 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	Yes
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	0.037 MJ
Weight	1.7 g
MSL per J-STD 020D	1

### Environmental requirements

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

### Commercial data

PU (SPU)	290 pcs
Packaging type	Bag
Country of origin	DE
GTIN	4045454814540
Customs tariff number	85366930000

### Product Classification

UNSPSC	39121409
eCl@ss 10.0	27-44-04-02
eCl@ss 9.0	27-44-04-02
ETIM 9.0	EC002637
ETIM 10.0	EC002637
ECCN	NO US CLASSIFICATION

### Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

### 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 ↓  
↓

### 1 Compatible Products

#### 1.1 System counterpart

##### 1.1.1 Female connector/socket



**Item No.: 733-112**  
 1-conductor female connector; CAGE CLAMP®; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm; 12-pole; 100% protected against mismatching; 0,50 mm<sup>2</sup>; light gray

## 1.2 Optional Accessories

### 1.2.1 Coding

#### 1.2.1.1 Coding

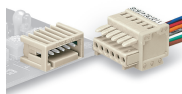


Item No.: [733-331](#)

Coding key; snap-on type; black

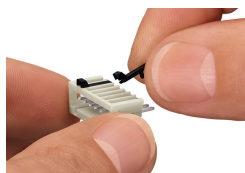
## Installation Notes

### Mismating protection



Male headers and female connectors are 100% protected against mismating. Only mating halves with the same pole number can be connected.

## Coding



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