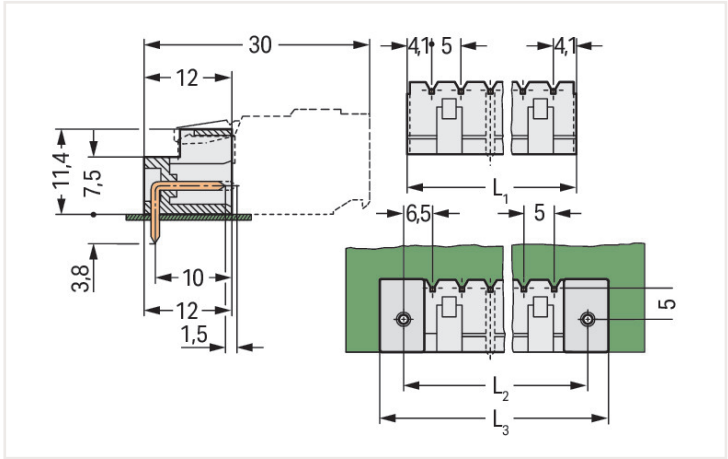
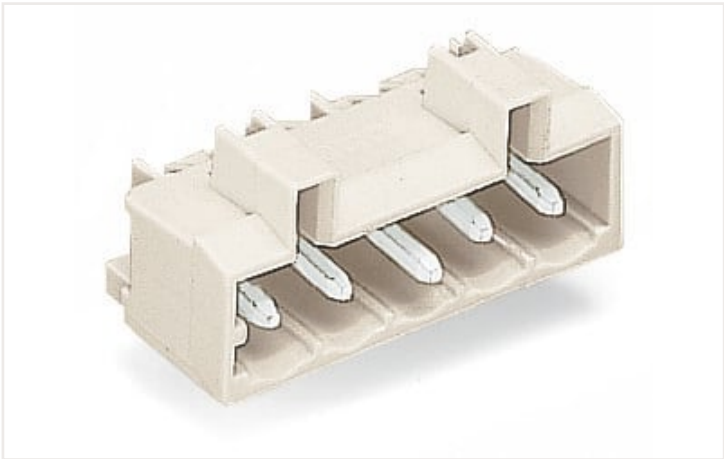
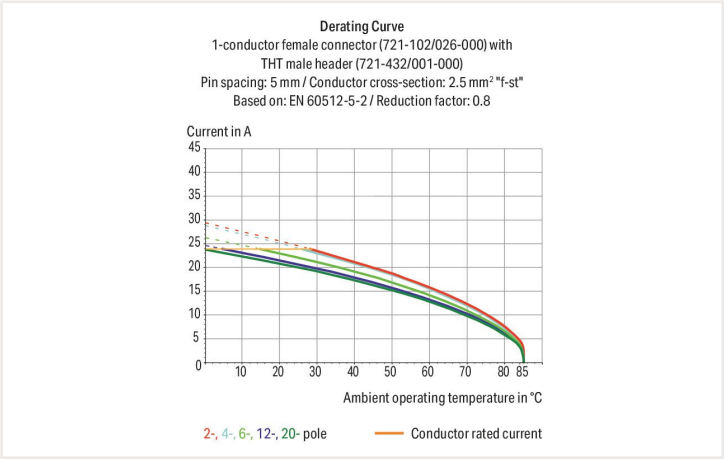


**Data sheet | Item number: 721-438/001-000**  
THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mis-  
mating; Pin spacing 5 mm; 8-pole; light gray  
<https://www.wago.com/721-438/001-000>



Dimensions in mm  
 $L1 = (\text{pole no.} - 1) \times \text{pin spacing} + 8.2 \text{ mm}$   
 $L2 = L1 + 5 \text{ mm}$   
 $L3 = L2 + 7.4 \text{ mm}$





- Horizontal or vertical PCB mounting via straight or angled solder pins
- Pin cross-section: 1 x 1 mm
- 100 % protected against mismatching
- With coding fingers

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. 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 3.8 mm pin projection for male headers with straight solder pins 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		Ratings per UL	
Ratings per	IEC/EN 60664-1	Approvals per	UL 1059
Nominal voltage (III/3)	320 V	Rated voltage UL (Use Group B)	300 V
Rated impulse voltage (III/3)	4 kV	Rated current UL (Use Group B)	10 A
Rated voltage (III/2)	320 V	Rated voltage UL (Use Group D)	300 V
Rated impulse voltage (III/2)	4 kV	Rated current UL (Use Group D)	10 A
Nominal voltage (II/2)	630 V		
Rated surge voltage (II/2)	4 kV		
Rated current	12 A		
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2		

Ratings per UL	
Rated voltage (UL 1977)	600 V
Rated current UL 1977	10 A

Ratings per CSA	
Approvals per	CSA
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

Connection data			
Total number of potentials	8	Connection 1	
Number of connection types	1	Pole number	8
Number of levels	1		

Physical data	
Pin spacing	5 mm / 0.197 inches
Width	43.2 mm / 1.701 inches
Height	15.2 mm / 0.598 inches
Height from the surface	11.4 mm / 0.449 inches
Depth	12 mm / 0.472 inches
Solder pin length	3.8 mm
Solder pin dimensions	1 x 1 mm
Drilled hole diameter with tolerance	1.4 (+0.1) 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	0°

### PCB contact

PCB contact	THT
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 data can be found here</a>
Color	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.05 MJ
Weight	2.7 g

### Environmental requirements

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

### Commercial data

Product Group	3 (Multi Conn. System)
eCl@ss 10.0	27-44-04-02
eCl@ss 9.0	27-44-04-02
ETIM 8.0	EC002637
ETIM 7.0	EC002637
PU (SPU)	100 Stück
Packaging type	Box
Country of origin VKOrg Germany	PL
GTIN	4044918869690
Customs tariff number VKOrg Germany	85366990990



Approvals and certificates

General approvals



Approval	Standard	Certificate name
CB DEKRA Certification B.V.	IEC 61984	NL-39756/A1
CSA DEKRA Certification B.V.	C22.2	1466354
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-121453
UL Underwriters Laboratories Inc.	UL 1977	E45171
UL Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate name
Railway WAGO GmbH & Co. KG	-	Railway Ready

Approvals for marine applications



Approval	Standard	Certificate name
ABS American Bureau of Ship- ping	-	19-HG1869876-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE000016Z

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 721-438/001-000



Documentation

Additional Information
Technical Section
03.04.2019
pdf 1949.09 KB



## CAD/CAE-Data

## CAD data

2D/3D Models  
721-438/001-000



## CAE data

EPLAN Data Portal  
721-438/001-000



ZUKEN Portal  
721-438/001-000



## 1 Compatible products

## 1.1 System counterpart

## 1.1.1 Female connector/socket

**Item no.: 722-108/026-000**

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; 100% protected against mismatching; 2,50 mm²; light gray

**Item no.: 722-208/026-000**

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; 100% protected against mismatching; 2,50 mm²; light gray

**Item no.: 721-108/026-000**

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; 100% protected against mismatching; 2,50 mm²; light gray

**Item no.: 721-108/027-000**

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; 100% protected against mismatching; clamping collar; 2,50 mm²; light gray

**Item no.: 721-108/031-000**

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; 100% protected against mismatching; clamping collar; 2,50 mm²; light gray

**Item no.: 721-108/037-000**

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; 100% protected against mismatching; Lateral locking levers; 2,50 mm²; light gray

**Item no.: 2721-108/026-000**

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; 100% protected against mismatching; 2,50 mm²; light gray

**Item no.: 2721-108/031-000**

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; 100% protected against mismatching; clamping collar; 2,50 mm²; light gray

**Item no.: 2721-108/037-000**

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; 100% protected against mismatching; Lateral locking levers; 2,50 mm²; light gray

**Item no.: 721-2108/037-000**

2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; 100% protected against mismatching; Lateral locking levers; 2,50 mm²; light gray

**Item no.: 721-2108/026-000**

2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; 100% protected against mismatching; with integrated end plate; 2,50 mm²; light gray

## 1.2 Optional accessories

## 1.2.1 Coding

## 1.2.1.1 Coding

**Item no.: 231-129**

Coding key; snap-on type; light gray

## 1.2.2 Marking

## 1.2.2.1 Marking strip

**Item no.: 210-833**

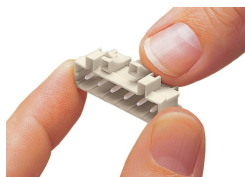
Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white

**Item no.: 210-834**

Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white

Installation notes

Coding



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