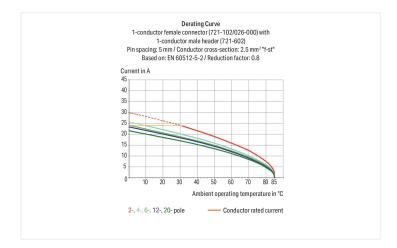
1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12-pole; 100% protected against mismating; 2,50 mm²; light gray

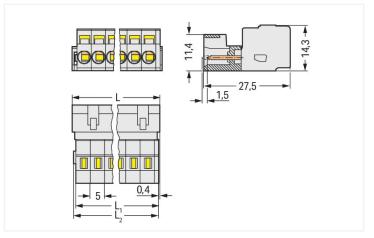


https://www.wago.com/721-612



Color: ■ light gray





Dimensions in mm L = (pole no. -1) x pin spacing + 8.2 mm L2 = L -1.7 mm L3 = L -1.2 mm

- 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 and board-to-wire connections
- · Versions available with snap-in mounting feet or flanges for panel or through-panel mounting
- 3- to 5-pole male connectors are also available with preceding ground contact
- 100 % protected against mismating
- · With coding fingers

Variants:

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.

Gold-plated or partially gold-plated contact surfaces

configurator.wago.com/.

Other versions (or variants) can be requested from WAGO Sales or configured at https://

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Electrical data			
Ratings per	IE	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	320 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV
Rated current	12 A	12 A	12 A

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	15 A	-	10 A

Approvals per	UL 1977
Rated voltage	600 V
Rated current	15 A

Approvals per		CSA	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	15 A	-	10 A

Connection data			
Connection points	12	Connection 1	
Total number of potentials	12	Connection technology	CAGE CLAMP®
Number of connection types	1	Actuation type	Operating tool
Number of levels	1	Actuation direction 1	Operation parallel to conductor entry
		Actuation direction 2	Operation perpendicular to conductor entry
		Solid conductor	0.08 2.5 mm² / 28 12 AWG
		Fine-stranded conductor	0.08 2.5 mm² / 28 12 AWG
		Fine-stranded conductor; with insulated ferrule	0.25 1.5 mm ²
	Fine-stranded conductor; with uninsulated ferrule	0.25 2.5 mm ²	
		Strip length	8 9 mm / 0.31 0.35 inches
		Pole number	12
		Conductor entry direction to mating direction	0°

Physical data	
Pin spacing	5 mm / 0.197 inches
Width	63.2 mm / 2.488 inches
Height	14.3 mm / 0.563 inches
Depth	27.5 mm / 1.083 inches

Mechanical data	
Variable coding	Yes
Direct ground contact to DIN-rail/drilled hole/housing	No
Anti-rotation protection	Yes

https://www.wago.com/721-612



Plug-in connection	
Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	Yes

Material data	
Note (material data)	
	Information on material specifications can be found here
Color	light gray
Material group	
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{Cu})
Contact plating	Tin
Fire load	0.331 MJ
Weight	18.4 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	27-44-03-09
eCl@ss 9.0	27-44-03-09
ETIM 8.0	EC002638
ETIM 7.0	EC002638
PU (SPU)	25 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918264303
Customs tariff number	85366930000

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / 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

General approvals

UL 1059 Underwriters Laboratories

E45172

https://www.wago.com/721-612



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 DNV GL SE	-	TAE000016Z
LR Lloyds Register	IEC 61984	96/20035 (E5)

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 721-612



Documentation

Additional Information

Technical Section

03.04.2019

. 2027.26 KB



CAD/CAE-Data

CAD data

2D/3D Models 721-612



CAE data

EPLAN Data Portal

721-612

ZUKEN Portal 721-612



1 Compatible Products

1.1 System counterpart

Item No.: 722-112/026-000

mismating; 2,50 mm²; light gray

1.1.1 Female connector/socket



1-conductor female connector, angled;

CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12-pole; 100% protected against





1-conductor female connector, angled: CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12-pole; 100% protected against mismating; 2,50 mm²; light gray

Item No.: 722-212/026-000



Item No.: 721-312/031-000 1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12-pole; 100% protected against mismating; clamping collar; 2,50 mm²; light gray



Item No.: 721-312/008-000

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12-pole; 100% protected against mismating; Snap-in mounting feet; 2,50 mm²; light gray



Item No.: 721-112/026-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12pole; 100% protected against mismating; 2,50 mm²; light gray

Item No.: 721-112/027-000 1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12pole; 100% protected against mismating; clamping collar; 2,50 mm²; light gray



Item No.: 721-112/031-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12pole; 100% protected against mismating; clamping collar; 2,50 mm²; light gray



Item No.: 721-112/037-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12pole; 100% protected against mismating; Lateral locking levers; 2,50 mm²; light

Continued on next page

https://www.wago.com/721-612

MAGO

1.1.1 Female connector/socket



Item No.: 721-112/008-000/037-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12pole; 100% protected against mismating; Lateral locking levers; Snap-in mounting feet; 2,50 mm²; light gray



Item No.: 721-112/008-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12-pole; 100% protected against mismating; Snap-in mounting feet; 2,50 mm²; light gray



Item No.: 2721-1112/037-000

1-conductor female connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12-pole; 100% protected against mismating, coding finger; Lateral locking levers; 2,50 mm²; light gray



Item No.: 2721-1112/326-000

1-conductor female connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 13-pole; 100% protected against mismating, coding finger; 2,50 mm²; light gray



Item No.: 2721-112/026-000

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12-pole; 100% protected against mismating; 2,50 mm²; light gray



1-conductor female connector; pushbutton; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12-pole; 100% protected against mismating; clamping collar; 2,50 mm²; light gray



1-conductor female connector; pushbutton; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12-pole; 100% protected against mismating; Lateral locking levers; 2,50 mm²; light gray



1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12-pole; 100% protected against mismating; Snap-in mounting feet; 2,50 mm²; light gray



Item No.: 721-2112/037-000

2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12-pole; 100% protected against mismating; Lateral locking levers; 2,50 mm²; light gray



Item No.: 721-2112/026-000

2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 12-pole; 100% protected against mismating; with integrated end plate; 2,50 mm²; light gray

Item No.: 722-242/005-000/039-000

Female connector for rail-mount terminal blocks; 0.6 x 1 mm pins; angled; 100% protected against mismating; Locking lever; Pin spacing 5 mm; 12-pole; light gray

Item No.: 722-242/005-000

Female connector for rail-mount terminal blocks; 0.6 x 1 mm pins; angled; 100% protected against mismating; Pin spacing 5 mm; 12-pole; light gray



Item No.: 722-142/005-000/039-000

Female connector for rail-mount terminal blocks; 0.6 x 1 mm pins; straight; 100% protected against mismating; Locking lever; Pin spacing 5 mm; 12-pole; light gray



Item No.: 722-142/005-000

5 mm; 12-pole; light gray

Item No.: 722-242/047-000

Item No.: 722-242

THT female header; angled; Pin spacing 5 mm; 12-pole; 100% protected against mismating; 0.6 x 1.0 mm solder pin; light



Item No.: 722-242/031-000

THT female header; angled; Pin spacing 5 mm; 12-pole; 100% protected against mismating; clamping collar; 0.6 x 1.0 mm solder pin; light gray



Item No.: 722-242/039-000

THT female header; angled; Pin spacing 5 mm; 12-pole; 100% protected against mismating; Locking lever; 0.6 x 1.0 mm solder pin; light gray



THT female header; angled; Pin spacing 5

mm; 12-pole; 100% protected against

mismating; Spacer flange; 0.6 x 1.0 mm

Female connector for rail-mount terminal

protected against mismating; Pin spacing

blocks; 0.6 x 1 mm pins; straight; 100%

Itom No

THT female header; straight; Pin spacing 5 mm; 12-pole; 100% protected against mismating; 0.6 x 1.0 mm solder pin; light gray



Item No.: 722-142/031-000

THT female header; straight; Pin spacing 5 mm; 12-pole; 100% protected against mismating; clamping collar; 0.6 x 1.0 mm solder pin; light gray

Item No.: 722-142/039-000

THT female header; straight; Pin spacing 5 mm; 12-pole; 100% protected against mismating; Locking lever; 0.6 x 1.0 mm solder pin; light gray

Item No.: 722-142/047-000

solder pin; light gray

THT female header; straight; Pin spacing 5 mm; 12-pole; 100% protected against mismating; Spacer flange; 0.6 x 1.0 mm solder pin; 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 https://www.wago.com/721-612



1.2.2 Cover

1.2.2.1 Cover



Item No.: 231-668

Lockout caps; for covering unused clamping units; gray



46228, Part 4/09.90; black

46228, Part 4/09.90; black

https://www.wago.com/721-612



1.2.3.1 Ferrule

Item No.: 216-284

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-124

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated

Item No.: 216-144

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored

Item No.: 216-104

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored

Item No.: 216-106

Ferrule; Sleeve for 2.5 mm² / AWG 14; uninsulated; electro-tin plated; silver-colored

1.2.4 Insulation stop

1.2.4.1 Insulation stop



Insulation stop; 0.08-0.2 mm² / 0.2 mm²

Item No.: 231-671

Insulation stop; 0.25 - 0.5 mm²; light gray



Item No.: 231-672

Insulation stop; 0.75 - 1 mm²; dark gray

1.2.5 Jumper

1.2.5.1 Jumper

Item No.: 231-670

"s"; white



Item No.: 231-910

Jumper; for conductor entry; 10-way; insulated; gray

Item No.: 231-902

Jumper; for conductor entry; 2-way; insulated; gray

Item No.: 231-903

Jumper; for conductor entry; 3-way; insulated; gray

Item No.: 231-905

Jumper; for conductor entry; 5-way; insulated; gray



Jumper; for conductor entry; 7-way; insulated; gray

1.2.6 Marking

1.2.6.1 Marking strip

Item No.: 210-331/500-103

Marking strips; as a DIN A4 sheet; MAR-KED; 1-12 (300x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item No.: 210-332/500-202

Marking strips; as a DIN A4 sheet; MAR-KED; 1-16 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item No.: 210-332/500-205

Marking strips; as a DIN A4 sheet; MAR-KED; 1-32 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item No.: 210-331/500-104

Marking strips; as a DIN A4 sheet; MAR-KED; 13-24 (300x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item No.: 210-332/500-204

Marking strips; as a DIN A4 sheet; MAR-KED; 17-32 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item No.: 210-332/500-206

Marking strips; as a DIN A4 sheet; MAR-KED; 33-48 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



1.2.7 Strain relief

1.2.7.1 Strain relief housing



Item No.: 232-612

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 12-pole; gray

1.2.8 Tool

1.2.8.1 Operating tool





Combination operating tool; red



Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoItem No.: 280-440

Operating tool; made of insulating material; 10-way



Item No.: 209-130

Operating tool; made of insulating material; 1-way; for 264 Series (1-/2-way), 280, 281 Series (up to 3-way); natural



Operating tool; made of insulating material; 1-way; loose; red

Item No.: 231-131

Operating tool; made of insulating material; 1-way; loose; white



Operating tool; made of insulating material; 2-way; white



Item No.: 280-433

Operating tool; made of insulating material; 3-way

Item No.: 280-434

Operating tool; made of insulating materi-

Item No.: 280-435

Operating tool; made of insulating material; 5-way; gray

Item No.: 280-436 Operating tool; made of insulating materi-



Item No.: 280-437

Operating tool; made of insulating material; 7-way

Item No.: 280-438

Operating tool; made of insulating materi-

Item No.: 231-159

Operating tool; natural

Installation Notes

Conductor termination



Inserting a conductor via 3.5 mm screwdriver - CAGE CLAMP® actuation parallel to conductor entry.



Inserting a conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation perpendicular to conductor entry.



Inserting a conductor via operating tool.



Testing



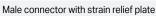
Testing perpendicular to conductor entry with 2 or 2.3 mm Ø test plug - female connector with CAGE CLAMP® - via integrated test ports

https://www.wago.com/721-612



Installation







Strain relief housing shown with a male connector equipped with CAGE CLAMP®

Coding



Coding a male header – fitting coding key

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