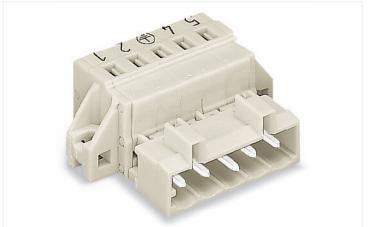
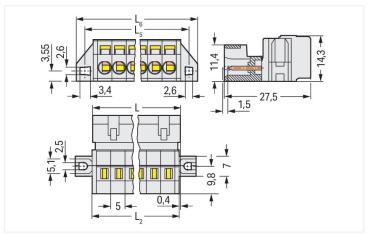
1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 3-pole; Preceding ground contact; 100% protected against mismating; clamping collar; direct marking; 2,50 mm²; light gray



https://www.wago.com/721-603/019-042



Similar to illustration



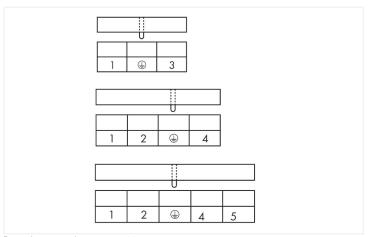
Dimensions in mm

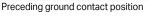
L = (pole no. - 1) x pin spacing + 8.2 mm

L2 = L - 0.2 mm

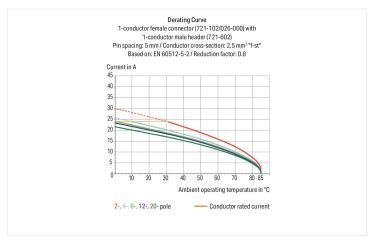
L5 = L2 + 5.8 mm

L6 = L2 + 11.8 mm





Color: light gray



- · 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

N	otes	3
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Safety information 1

Variants:

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.

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

Data Sheet | Item Number: 721-603/019-042 https://www.wago.com/721-603/019-042



Ratings per IEC/EN	
Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	320 V
Rated impulse voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated impulse voltage (III/2)	4 kV
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

Potingo por III 1050	
Ratings per UL 1059	
Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	15 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A

Ratings per UL 1977	
Rated voltage (UL 1977)	600 V
Rated current UL 1977	15 A

Ratings per CSA	
Approvals per	CSA
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	15 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

Connection data				
Connection points	3		Connection 1	
Total number of potentials	3		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
PE function Preceding PE contact	Actuation direction 2	Operation perpendicular to conducto 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 mm²	
		Fine-stranded conductor; with uninsulated ferrule	0.25 2.5 mm²	
			Strip length	8 9 mm / 0.31 0.35 inches
			Pole number	3
			Conductor entry direction to mating direction	0°

Physical data	
Pin spacing	5 mm / 0.197 inches
Width	29.8 mm / 1.173 inches
Height	14.3 mm / 0.563 inches
Depth	27.5 mm / 1.083 inches

https://www.wago.com/721-603/019-042



Mechanical Data	
Variable coding	Yes
Mounting type	Mounting flange Feed-through mounting Panel mounting
Anti-rotation protection	Yes

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

Material Data	
Note (material data)	
	<u>Information on material specifications can be found here</u>
Color	light gray
Material group	1
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	0.118 MJ
Weight	5.9 g

Environmental requirements -60 ... +100 °C Limit temperature range 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)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918262194
Customs tariff number	85366990990

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

General approvals

UL 1059 E45172 **Underwriters Laboratories**

UL 1977 E45171

Underwriters Laboratories

https://www.wago.com/721-603/019-042



TAE000016Z

Declarations of conformity and manufacturer's declarations



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

Approvals for marine applications



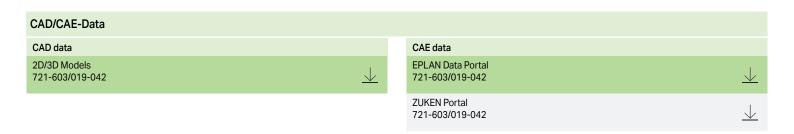
Det Norske Veritas, Germanischer Lloyd

ping DNV GL

DNV DRVCOM/AF		
Approval	Standard	Certificate Name
ABS American Bureau of Ship-	-	19-HG1869876-PDA

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 721-603/019-042	$\overline{\downarrow}$

Documentation			
Additional Information			
Technical Section	03.04.2019	pdf 1949.09 KB	<u>↓</u>



1 Compatible Products 1.1 System counterpart 1.1.1 Female connector/socket Item No.: 721-103/026-000 Item No.: 722-233 Item No.: 722-133 1-conductor female connector; CAGE THT female header; angled; Pin spacing 5 THT female header; straight; Pin spacing 5 CLAMP®; 2.5 mm²; Pin spacing 5 mm; 3mm; 3-pole; 100% protected against mismm; 3-pole; 100% protected against mispole; 100% protected against mismating;

mating; 0.6 x 1.0 mm solder pin; light gray

mating; 0.6 x 1.0 mm solder pin; light gray

1.2 Optional Accessories

1.2.1 Coding

2,50 mm²; light gray

https://www.wago.com/721-603/019-042



1.2.1.1 Coding



Item No.: 231-129

Coding key; snap-on type; light gray

1.2.2 Cover

1.2.2.1 Cover



Item No.: 231-668

Lockout caps; for covering unused clamping units; gray

1.2.3 Ferrule

1.2.3.1 Ferrule

Item No.: 216-301

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

Item No.: 216-321

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

Item No.: 216-151

Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated

Item No.: 216-131

Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored

Item No.: 216-302

Ferrule: Sleeve for 0.34 mm² / 22 AWG: insulated; electro-tin plated; light turquoise

Item No.: 216-322

Ferrule: Sleeve for 0.34 mm² / 22 AWG: insulated; electro-tin plated; light turquoise

Item No.: 216-132

Ferrule: Sleeve for 0.34 mm² / AWG 24: uninsulated; electro-tin plated

Item No.: 216-152

Ferrule: Sleeve for 0.34 mm² / AWG 24: uninsulated; electro-tin plated

Item No.: 216-241

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white

Item No.: 216-201

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white

Item No.: 216-221

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white

Item No.: 216-141

Ferrule; Sleeve for 0.5 mm² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored

Item No.: 216-121

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored

Item No.: 216-242

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

Item No.: 216-262

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

Item No.: 216-202

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray

Item No.: 216-222

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray

Item No.: 216-142

Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

Item No.: 216-102

Ferrule; Sleeve for 0.75 mm² / AWG 20;



Item No.: 216-122

Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-co-

Item No.: 216-243

Ferrule; Sleeve for 1 mm2 / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Item No.: 216-263

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

uninsulated; electro-tin plated; silver-colored



Item No.: 216-203

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red



Item No.: 216-223

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item No.: 216-103

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

Item No.: 216-123

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored

https://www.wago.com/721-603/019-042



1.2.3.1 Ferrule

Item No.: 216-204

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

Item No.: 216-224

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

Item No.: 216-244

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.: 216-264

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.: 216-284

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 Installation

1.2.4.1 Mounting accessories

Item No.: 231-295 Screw with nut Item No.: 231-195

Screw with nut; M2x12; for fixing element

Item No.: 209-147

Self-tapping screw

Item No.: 231-194

Self-tapping screw; B 2.2x13, fixing hole 1.8 mm Ø

1.2.5 Insulation stop

1.2.5.1 Insulation stop

Item No.: 231-670

Insulation stop; 0.08-0.2 mm² / 0.2 mm² "s"; white

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

1.2.6 Jumper

1.2.6.1 Jumper

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

Item No.: 231-907

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

1.2.7 Marking

https://www.wago.com/721-603/019-042



1.2.7.1 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

1.2.8 Strain relief

1.2.8.1 Strain relief housing



Item No.: 232-603

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 3pole; gray

1.2.9 Tool

1.2.9.1 Operating tool

Item No.: 231-231

Combination operating tool; red

Item No.: 210-720

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

Item No.: 210-657

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

Item No.: 231-291 Operating tool; made of insulating material; 1-way; loose; red

Item No.: 231-131

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

Item No.: 280-432

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 material; 4-way

Item No.: 280-435

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

Item No.: 280-436

Operating tool; made of insulating material; 6-way



Item No.: 280-437

Operating tool; made of insulating material; 7-way

Item No.: 280-438

Operating tool; made of insulating material; 8-way

Item No.: 231-159

Operating tool; natural

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

Current addresses can be found at:: www.wago.com

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