

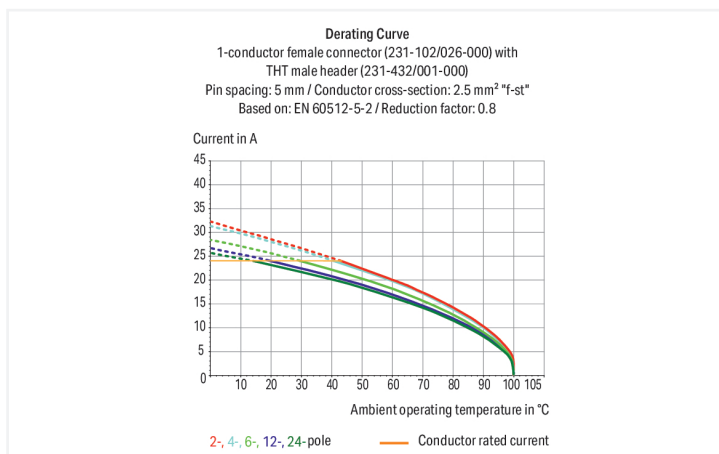
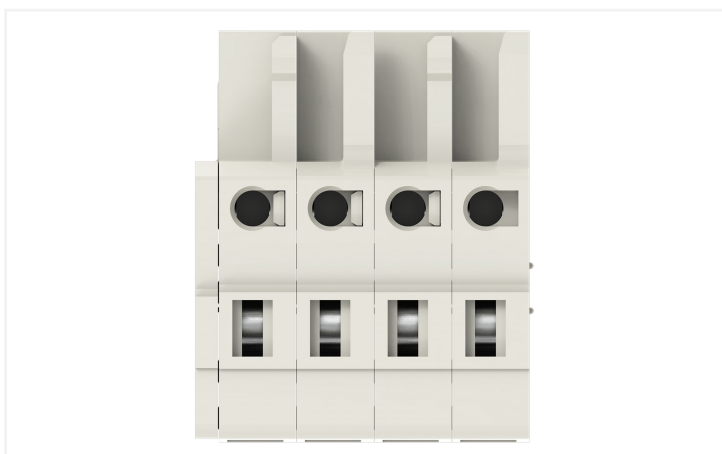
Data Sheet | Item Number: 721-104/026-000

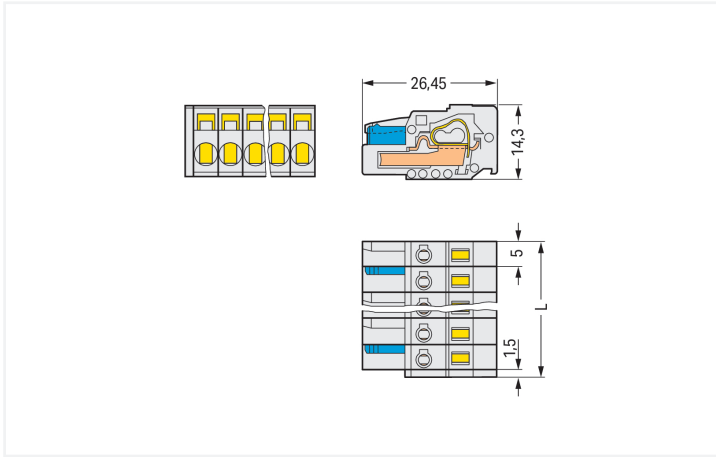
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole;
100% protected against mismatching; 2,50 mm²; light gray

<https://www.wago.com/721-104/026-000>



Color: ■ light gray





Dimensions in mm

L = (pole no. x pin spacing) + 1.5 mm 2-pole female connectors – one latch only

Female connector, 721 Series, 0 ° conductor exit to connection direction

This female connector (item number 721-104/026-000) is designed for seamless electrical installations. Strip lengths must be between 8 and 9 mm when connecting conductors to this female connector. This product features one conductor terminal and utilizes CAGE CLAMP®. Our proven universal connection known as CAGE CLAMP® is the industry standard for connection technology and electrical interconnections. Dimensions: (21.5 x 14.3 x 26.45) mm (width x height x depth). This female connector is suitable for conductor cross sections ranging from 0.08 mm² to 2.5 mm².

Tin is used for coating the contact surfaces.

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		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	320 V	320 V	630 V
Rated impulse withstand voltage	4 kV	4 kV	4 kV
Rated current	16 A	16 A	16 A

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

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

Approvals per	CSA		
Use group	B	C	D
Rated voltage	300 V	-	300 V
Rated current	15 A	-	10 A

Connection Data

Clamping units	4
Total number of potentials	4
Number of connection types	1
Number of levels	1

Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Actuation direction 1	Operation parallel to conductor entry
Actuation direction 2	Operation perpendicular to conductor entry
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 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	4
Conductor entry direction to mating direction	0°

Physical data

Pin spacing	5 mm / 0.197 inches
Width	21.5 mm / 0.846 inches
Height	14.3 mm / 0.563 inches
Depth	26.45 mm / 1.041 inches

Mechanical data

Variable coding	Yes
Anti-rotation protection	Yes

Plug-in connection

Contact type (pluggable connector)	Female connector/socket
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	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper alloy
Contact Plating	Tin
Fire load	0.105 MJ
Weight	7.3 g

Environmental requirements

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

Environmental Testing

Test specification: Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests	DIN EN 61373 (VDE 0115-0106):2011-04
Spectrum/Mounting location	Service life test, Category 1, Class A/B
Functional test with noise-like oscillations	Test passed according to Section 8 of the standard
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
Acceleration	0.101g (highest test level used for all axes)
Test duration per axis	10 min.
Test directions	X, Y and Z axes
Monitoring of contact faults and interruptions	Passed
Voltage drop measurement before and after each axis	Passed
Simulated service life test through increased levels of noise-like oscillations	Test passed according to Section 9 of the standard
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
Acceleration	0.572g (highest test level used for all axes)
Test duration per axis	5 h
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Shock test	Test passed according to Section 10 of the standard
Shock pulse form	Half sine
Acceleration	5g (highest test level used for all axes)
Shock duration	30 ms
Number of shocks (per axis)	3 pos. und 3 neg.
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Vibration and shock stress for rolling stock equipment	Passed

Commercial data

Product Group	3 (Multi Conn. System)
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918353557
Customs tariff number	85366990990

Product Classification

UNSPSC	39121409
eCl@ss 10.0	27-44-03-09
eCl@ss 9.0	27-44-03-09
ETIM 9.0	EC002638
ETIM 10.0	EC002638
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2	1466354
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-130478 REV.1
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 Shipping	-	24-0095975-PDA
BV Bureau Veritas S.A.	IEC 60998	11915/E0 BV
DNV DNV GL SE	-	TAE000016Z
PRS Polski Rejestr Statków	-	TE/1095/880590/23

Downloads			
Environmental Product Compliance			
Compliance Search			
Environmental Product Compliance 721-104/026-000			↓
Documentation			
Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	↓
CAD/CAE-Data			
CAD data		CAE data	
2D/3D Models 721-104/026-000		EPLAN Data Portal 721-104/026-000	
↓		↓	
		ZUKEN Portal 721-104/026-000	
		↓	
1 Compatible Products			
1.1 System counterpart			
1.1.1 Male connector/plug			
<p>Item No.: 721-604 1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; 100% protected against mismatching; 2,50 mm²; light gray</p>	<p>Item No.: 721-604/019-000 1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; 100% protected against mismatching; clamping collar; 2,50 mm²; light gray</p>	<p>Item No.: 721-604/018-000 1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; 100% protected against mismatching; DIN-35 rail/panel mounting; Snap-in mounting feet; 2,50 mm²; light gray</p>	<p>Item No.: 721-604/114-000 1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; 100% protected against mismatching; Snap-in flange; 2,50 mm²; light gray</p>
<p>Item No.: 721-604/114-040 1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; Preceding contact; 100% protected against mismatching; Snap-in flange; 2,50 mm²; light gray</p>	<p>Item No.: 721-604/019-042 1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; Preceding ground contact; 100% protected against mismatching; clamping collar; direct marking; 2,50 mm²; light gray</p>	<p>Item No.: 721-604/018-042 1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; Preceding ground contact; 100% protected against mismatching; DIN-35 rail/panel mounting; Snap-in mounting feet; direct marking; 2,50 mm²; light gray</p>	<p>Item No.: 721-604/000-042 1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; Preceding ground contact; 100% protected against mismatching; direct marking; 2,50 mm²; light gray</p>
<p>Item No.: 721-604/114-042 1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; Preceding ground contact; 100% protected against mismatching; Snap-in flange; direct marking; 2,50 mm²; light gray</p>	<p>Item No.: 2721-1603/000-040 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 3-pole; Preceding contact; 100% protected against mismatching; 2,50 mm²; light gray</p>	<p>Item No.: 2721-1603/000-043 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 3-pole; Preceding contact; 100% protected against mismatching; direct marking; 2,50 mm²; light gray</p>	<p>Item No.: 2721-1603/000-041 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 3-pole; Preceding ground contact; 100% protected against mismatching; direct marking; 2,50 mm²; light gray</p>
<p>Item No.: 2721-1603/000-042 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 3-pole; Preceding ground contact; 100% protected against mismatching; direct marking; 2,50 mm²; light gray</p>	<p>Item No.: 2721-1604 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; 100% protected against mismatching; 2,50 mm²; light gray</p>	<p>Item No.: 2721-1604/334-000 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; 100% protected against mismatching; Strain relief plate; 2,50 mm²; light gray</p>	<p>Item No.: 2721-1604/000-040 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; Preceding contact; 100% protected against mismatching; 2,50 mm²; light gray</p>

1.1.1 Male connector/plug



Item No.: 2721-1604/000-043
 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; Preceding contact; 100% protected against mismatching; direct marking; 2,50 mm²; light gray

Item No.: 2721-1604/000-041
 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; Preceding ground contact; 100% protected against mismatching; direct marking; 2,50 mm²; light gray

Item No.: 2721-1604/000-042
 1-conductor male connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; Preceding ground contact; 100% protected against mismatching; direct marking; 2,50 mm²; light gray

Item No.: 721-164/003-000
 Male connector for rail-mount terminal blocks; 1.2 x 1.2 mm pins; straight; 100% protected against mismatching; Pin spacing 5 mm; 4-pole; light gray



Item No.: 721-434/001-000
 THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 5 mm; 4-pole; light gray

Item No.: 721-434/001-040
 THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Preceding ground contact; Pin spacing 5 mm; 4-pole; light gray

Item No.: 721-134/001-000
 THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Pin spacing 5 mm; 4-pole; light gray

Item No.: 721-134/001-040
 THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Preceding ground contact; Pin spacing 5 mm; 4-pole; light gray



Item No.: 721-464/001-000
 THT male header; 1.2 x 1.2 mm solder pin; angled; 100% protected against mismatching; Pin spacing 5 mm; 4-pole; light gray

Item No.: 721-464/001-040
 THT male header; 1.2 x 1.2 mm solder pin; angled; 100% protected against mismatching; Preceding ground contact; Pin spacing 5 mm; 4-pole; light gray

Item No.: 721-164/001-000
 THT male header; 1.2 x 1.2 mm solder pin; straight; 100% protected against mismatching; Pin spacing 5 mm; 4-pole; light gray

Item No.: 721-164/001-040
 THT male header; 1.2 x 1.2 mm solder pin; straight; 100% protected against mismatching; Preceding ground contact; Pin spacing 5 mm; 4-pole; light gray

1.2 Optional Accessories

1.2.1 Cover

1.2.1.1 Cover



Item No.: 231-668
 Lockout caps; for covering unused clamping units; gray

Item No.: 231-669
 Lockout caps; for covering unused clamping units; orange

1.2.2 Ferrule

1.2.2.1 Ferrule



Item No.: 216-301
 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

Item No.: 216-302
 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

Item No.: 216-201
 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 4/09.90; white

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.: 216-141
 Ferrule; Sleeve for 0.5 mm² / 20 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

Item No.: 216-101
 Ferrule; Sleeve for 0.5 mm² / AWG 22; un-insulated; 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; un-insulated; electro-tin plated; gray

Item No.: 216-142
 Ferrule; Sleeve for 0.75 mm² / 18 AWG; un-insulated; 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; un-insulated; electro-tin plated; silver-colored

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; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Item No.: 216-203
 Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated; red

Item No.: 216-103
 Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated

Item No.: 216-143
 Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

1.2.2.1 Ferrule



Item No.: 216-204
 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.: 216-144
 Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; 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; un-insulated; electro-tin plated; silver-colored

Item No.: 216-106
 Ferrule; Sleeve for 2.5 mm² / AWG 14; un-insulated; electro-tin plated; silver-colored

1.2.3 Insulation stop

1.2.3.1 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

1.2.4 Jumper

1.2.4.1 Jumper



Item No.: 231-902
 Jumper; for conductor entry; 2-way; insulated; gray

Item No.: 231-903
 Jumper; for conductor entry; 3-way; insulated; gray

1.2.5 Marking

1.2.5.1 Marking strip



Item No.: 210-331/500-103
 Marking strips; as a DIN A4 sheet; MARKED; 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; MARKED; 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; MARKED; 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; MARKED; 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; MARKED; 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; MARKED; 33-48 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

1.2.6 Strain relief

1.2.6.1 Strain relief housing



Item No.: 232-604

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 4-pole; gray

1.2.7 Test and measurement

1.2.7.1 Testing accessories



Item No.: 210-136

Test plug; 2 mm Ø; with 500 mm cable; red



Item No.: 231-661

Test plugs for female connectors; for 5 mm and 5.08 mm pin spacing; 2,50 mm²; light gray

1.2.8 Tool

1.2.8.1 Operating tool



Item No.: 209-132

Operating tool; for connecting comb-style jumper bar; made of insulating material; 2-way; natural



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; white

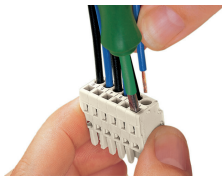


Item No.: 280-434

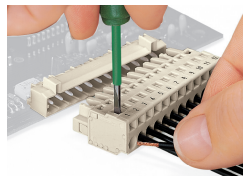
Operating tool; made of insulating material; 4-way; white

Installation Notes

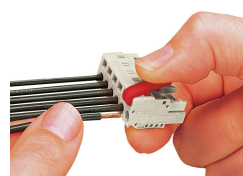
Conductor termination



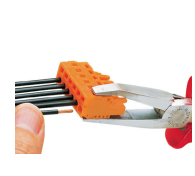
Inserting a conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation parallel to conductor entry.



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



Inserting a conductor via operating tool.

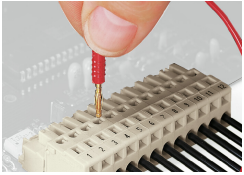


Coding



Coding a female connector by removing coding finger(s).

Testing



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

Installation



Male connector with strain relief plate



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