


Data Sheet | Item Number: 714-102

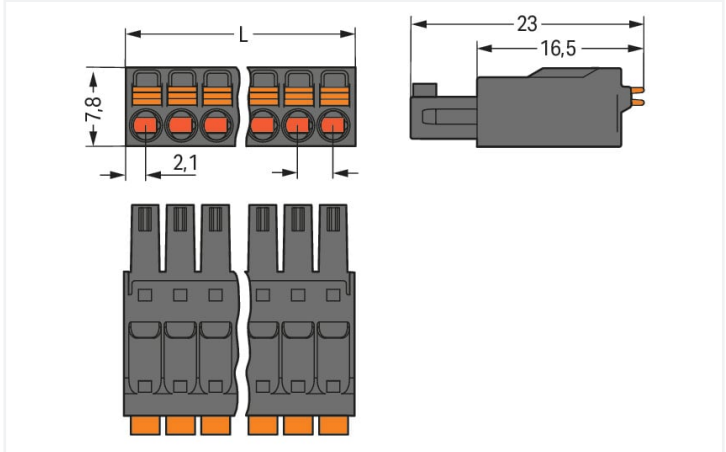
1-conductor female connector; push-button; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; 1,50 mm²; black

<https://www.wago.com/714-102>



Color:  black

Similar to illustration



Dimensions in mm
 $L = (\text{pole no.} - 1) \times \text{pin spacing} + 4.2 \text{ mm}$

- Female connectors terminate both solid and ferruled conductors via push-in termination
- Integrated push-buttons provide convenient, tool-free operation
- Ultra-low profile of just 7.8 mm for conductor cross-section up to 1.5 mm²
- With coding fingers and test points

Notes

Safety information 1

Other pole numbers
Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

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.

Electrical data			
Ratings per IEC/EN		Ratings per UL 1059	
Ratings per	IEC/EN 60664-1	Approvals per	UL 1059
Nominal voltage (III/3)	160 V	Rated voltage UL (Use Group B)	150 V
Rated impulse voltage (III/3)	2.5 kV	Rated current UL (Use Group B)	8 A
Rated voltage (III/2)	160 V		
Rated impulse voltage (III/2)	2.5 kV		
Nominal voltage (II/2)	320 V		
Rated surge voltage (II/2)	2.5 kV		
Rated current	8 A		
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2		

Connection data



Connection points	2
Total number of potentials	2
Number of connection types	1
Number of levels	1

Connection 1	
Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-button
Solid conductor	0.2 ... 1.5 mm² / 24 ... 16 AWG
Fine-stranded conductor	0.2 ... 1.5 mm² / 24 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 0.75 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 1.5 mm²
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches
Pole number	2
Conductor entry direction to mating direction	0°

Physical data	
Pin spacing	3.5 mm / 0.138 inches
Width	7.7 mm / 0.303 inches
Height	7.8 mm / 0.307 inches
Depth	23 mm / 0.906 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	No

Material Data	
Note (material data)	Information on material specifications can be found here
Color	black
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper alloy
Contact plating	Tin
Fire load	0.018 MJ
Weight	1.2 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	27-14-11-06	
eCl@ss 9.0	27-14-11-06	
ETIM 8.0	EC001284	
ETIM 7.0	EC001284	
PU (SPU)	200 pcs	
Packaging type	Box	
Country of origin	DE	
GTIN	4045454857660	
Customs tariff number	85366990990	

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 61984	NTR NL-7604
KEMA/KEUR DEKRA Certification B.V.	EN 61984	2198681.01
UR Underwriters Laboratories Inc.	UL 1059	E45172

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 714-102	

Documentation

Additional Information			
Technical Section	03.04.2019	pdf 1949.09 KB	

CAD/CAE-Data



CAD data

2D/3D Models 714-102

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CAE data

ZUKEN Portal 714-102

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1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug



[Item No.: 714-162](#)
THT male header; 0.8 x 0.8 mm solder pin;
angled; Pin spacing 3.5 mm; 2-pole; black

[Item No.: 714-132](#)
THT male header; 0.8 x 0.8 mm solder pin;
straight; Pin spacing 3.5 mm; 2-pole; black

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 Ferrule



[Item No.: 216-301](#)
Ferrule; Sleeve for 0.25 mm² / AWG 24; in-
sulated; electro-tin plated; yellow



[Item No.: 216-321](#)
Ferrule; Sleeve for 0.25 mm² / AWG 24; in-
sulated; 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-co-
lored



[Item No.: 216-302](#)
Ferrule; Sleeve for 0.34 mm² / 22 AWG; in-
sulated; electro-tin plated; light turquoise



[Item No.: 216-322](#)
Ferrule; Sleeve for 0.34 mm² / 22 AWG; in-
sulated; 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; in-
sulated; 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; in-
sulated; electro-tin plated; white



[Item No.: 216-221](#)
Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-
sulated; electro-tin plated; 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-co-
lored



[Item No.: 216-121](#)
Ferrule; Sleeve for 0.5 mm² / AWG 22; un-
insulated; electro-tin plated; silver-co-
lored



[Item No.: 216-242](#)
Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-
sulated; 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; in-
sulated; 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; in-
sulated; electro-tin plated; gray



[Item No.: 216-222](#)
Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-
sulated; electro-tin plated; gray



[Item No.: 216-142](#)
Ferrule; Sleeve for 0.75 mm² / 18 AWG;
uninsulated; electro-tin plated; electro-
lytic copper; gastight crimped; acc. to DIN
46228, Part 1/08.92



[Item No.: 216-102](#)
Ferrule; Sleeve for 0.75 mm² / AWG 20;
uninsulated; electro-tin plated; silver-co-
lored



[Item No.: 216-122](#)
Ferrule; Sleeve for 0.75 mm² / AWG 20;
uninsulated; electro-tin plated; silver-co-
lored



[Item No.: 216-103](#)
Ferrule; Sleeve for 1 mm² / AWG 18; unin-
sulated; electro-tin plated



[Item No.: 216-143](#)
Ferrule; Sleeve for 1 mm² / AWG 18; unin-
sulated; 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; unin-
sulated; electro-tin plated; silver-colored

1.2.1.1 Ferrule



Item No.: 216-124
Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated



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

1.2.2 Test and measurement

1.2.2.1 Testing accessories



Item No.: 735-500
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm²

1.2.3 Tool

1.2.3.1 Operating tool



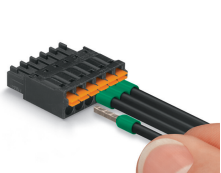
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



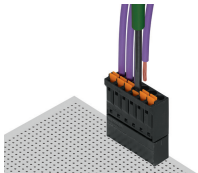
Item No.: 210-647
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes

Conductor termination



Solid and ferruled conductors are terminated by simply pushing them into unit.



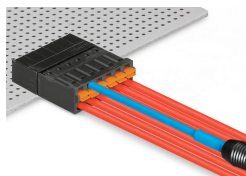
Inserting/removing fine-stranded conductors via push-button.

Coding



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

Testing



Testing via 1 mm Ø test pin – insertion parallel to conductor entry.

Marking



Pole marking via factory direct marking