


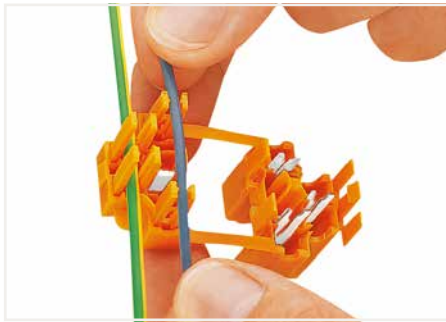


# WAGO Specialty Connectors

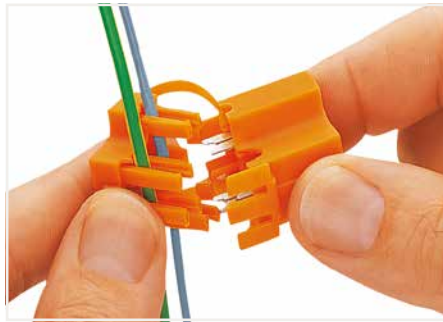
## WAGO Specialty Connectors

	Series	Page
	Female Connector ▶ Pole No.: 3 ▶ IDC ▶ 0.75 ... 1.5 mm <sup>2</sup> „f-st“	730 838
	Male Connector ▶ Pole No.: 3 ▶ CAGE CLAMP® ▶ Actuation type: Operating tool ▶ 0.08 ... 2.5 mm <sup>2</sup> (18 ... 16 AWG)	840
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	Male Connector ▶ Pole No.: 6 ▶ CAGE CLAMP® ▶ Actuation type: Operating tool ▶ 0.08 ... 2.5 mm <sup>2</sup> (18 ... 16 AWG)	844
	4-Conductor Modular PCB Connector ▶ for KNX/EIB Bus Coupler Units ▶ PUSH WIRE®	243 846
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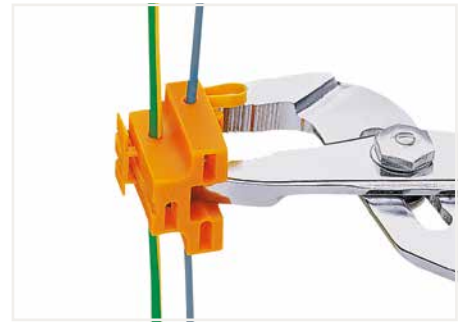
# Wire-Tap Branch Connectors, 3-Pole 730 Series Description and Installation



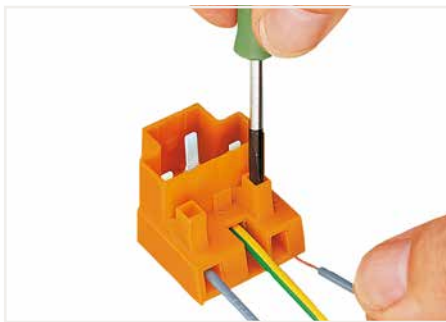
Press conductor into strain relief fingers.



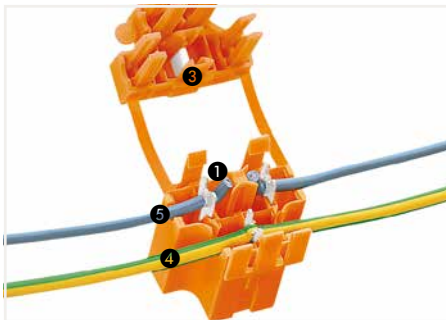
Place upper and lower part of the socket into pre-locking position.



Press into final position using pliers.

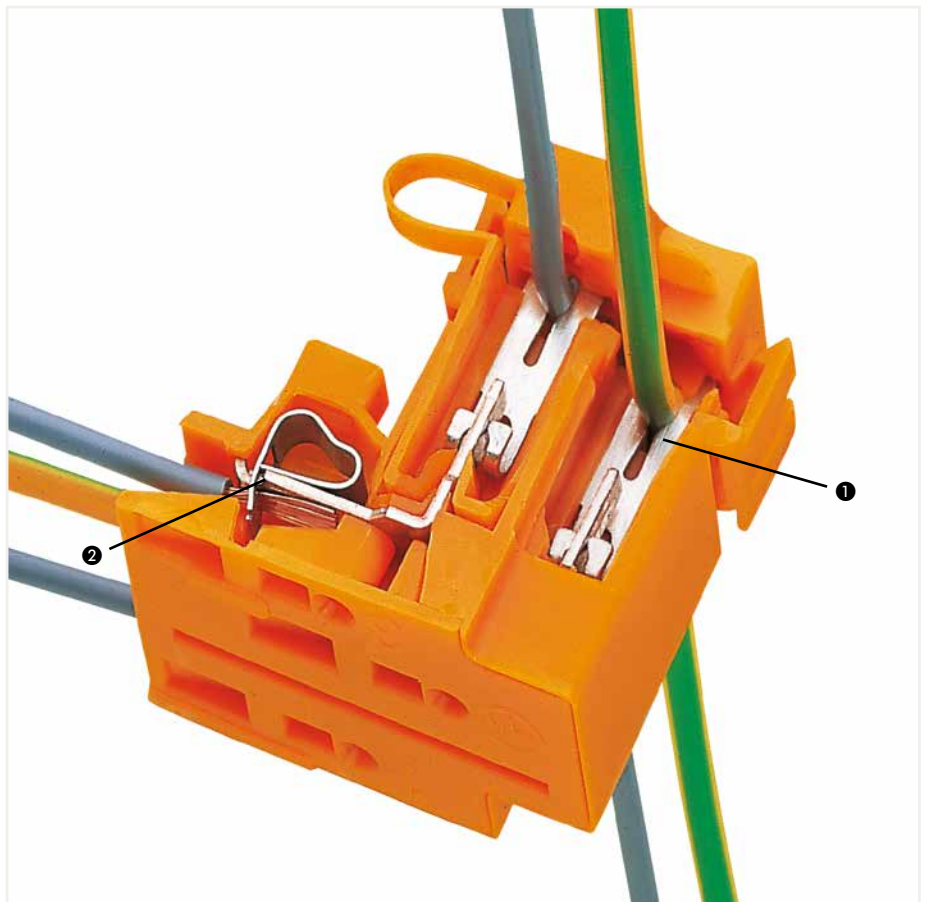


Insert conductors via screwdriver – 3-pole plug equipped with CAGE CLAMP®.



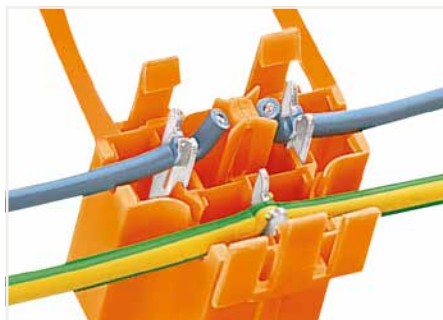
Three-pole socket includes:

- 1 IDC
- 2 CAGE CLAMP®
- 3 Isolation blade
- 4 IDC contacted ground conductor
- 5 Cut and IDC contacted "live" conductor

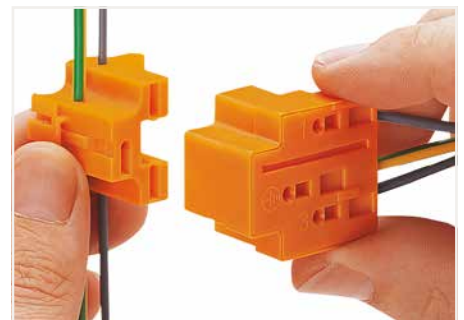


730 Series, 3-pole

13



Snapping socket halves together will automatically cut and terminate a "live" conductor without stripping – enables switching applications (e.g., door switches).

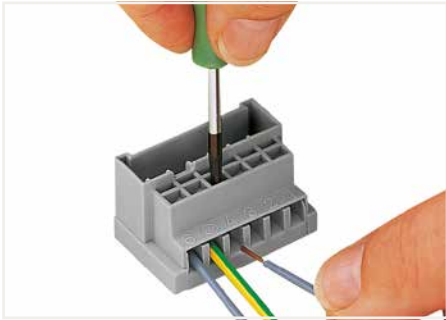


Insert plug into socket.

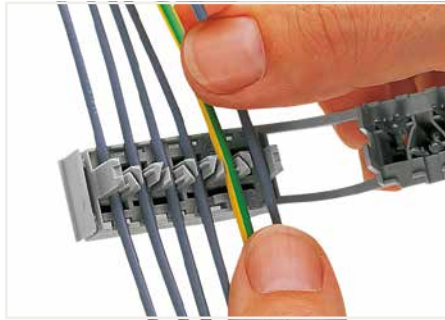
# Wire-Tap Branch Connectors, 6-Pole

## 730 Series

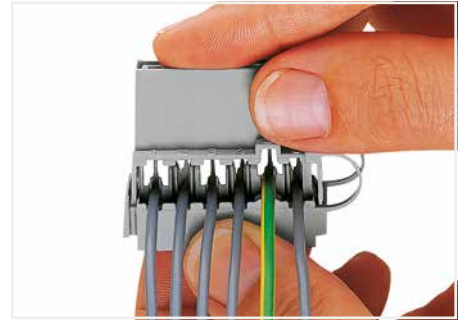
### Description and Installation



Insert conductors via screwdriver – 6-pole plug equipped with CAGE CLAMP®.



Press conductors into strain relief fingers.



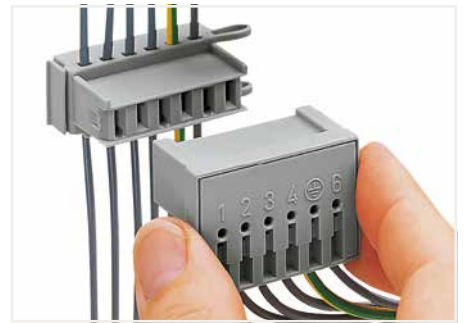
Place upper and lower part of the socket into pre-locking position.



730 Series



Press into final position using pliers.



Insert plug into socket.



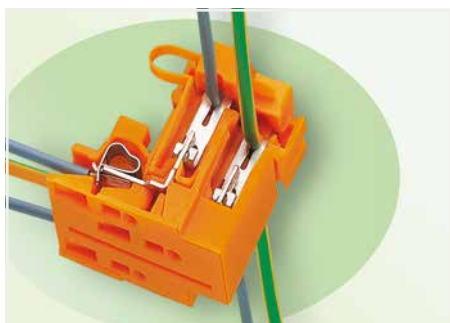
Marking via side marker carrier.



Testing via 2.3 mm Ø test plug.

**Socket ▶ 730 Series**

Pole No.: 3 ▶ IDC ▶ Color: orange



- Sockets with IDC for tapping individual conductors without stripping
- Three-pole sockets automatically cut "live" conductors (e.g., door switches in elevator shafts)
- Sockets available with additional mounting flanges

**Electrical Data**

		IEC/EN 60664-1		
Ratings per		III	III	II
Overvoltage category		3	2	2
Pollution degree		3	2	2
Rated voltage		500 V	630 V	1000 V
Rated impulse voltage		6 kV	6 kV	6 kV
Rated current		10 A	10 A	10 A
		UL 1059		
Approbations per		B	C	D
Use group		-	600 V	-
Rated voltage		-	10 A	-
Rated current		-	-	-
		CSA		
Approbations per		B	C	D
Use group		-	600 V	-
Rated voltage		-	10 A	-
Rated current		-	-	-

**Connection Data**

Connection technology	IDC
Fine-stranded conductor	0.75 ... 1.5 mm <sup>2</sup> / 18 ... 16 AWG

**Material Data**

Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Brass
Contact plating	Tin-plated

**Environmental Requirements**

Limit temperature range	-60 ... +85 °C
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See technical section for further information

For approvals and corresponding ratings, visit [www.wago.com](http://www.wago.com)

# Socket ▶ 730 Series

Pole No.: 3 ▶ IDC ▶ Color: orange



Mounting type: Mounting flange

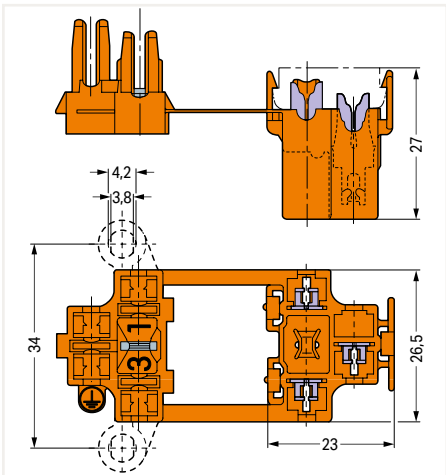
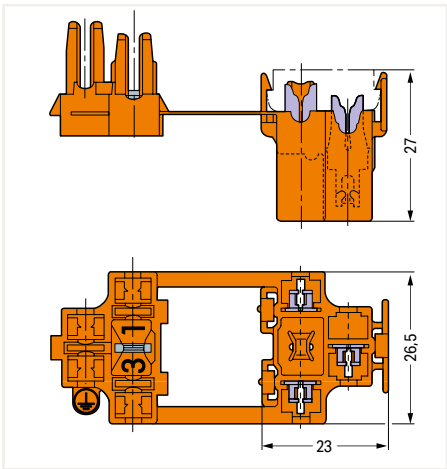


730-103

730-123

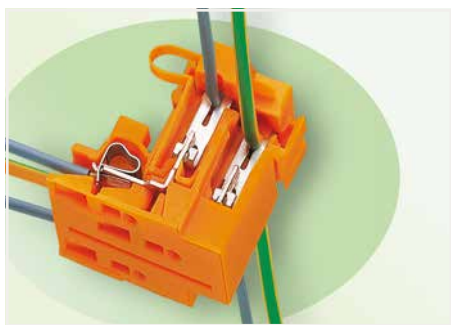
Color	Pole No.	Item No.	PU
orange	3	730-103	50

Color	Pole No.	Item No.	PU
orange	3	730-123	50



PU = Packaging Unit; SPU = Subpackaging Unit; Dimensions in mm



**Male connector ▶ 730 Series****Pole No.: 3 ▶ CAGE CLAMP® ▶ Actuation type: Operating tool ▶ 2.5 mm<sup>2</sup> ▶ Color: orange**

- Plugs with CAGE CLAMP® for the universal connection of all conductor types

**Electrical Data**

		IEC/EN 60664-1		
Ratings per		III	III	II
Overvoltage category		3	2	2
Pollution degree		3	2	2
Rated voltage		500 V	630 V	1000 V
Rated impulse voltage		6 kV	6 kV	6 kV
Rated current		10 A	10 A	10 A
		UL 1059		
Approbations per		B	C	D
Use group		-	600 V	-
Rated voltage		-	10 A	-
Rated current		-	-	-
		CSA		
Approbations per		B	C	D
Use group		-	600 V	-
Rated voltage		-	10 A	-
Rated current		-	-	-

**Connection Data**

Connection technology	CAGE CLAMP®
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm <sup>2</sup>
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm <sup>2</sup>

**Material Data**

Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Electrolytic copper (E <sub>cu</sub> )
Contact plating	Tin-plated

**Environmental Requirements**

Limit temperature range	-60 ... +85 °C
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See technical section for further information

For approvals and corresponding ratings, visit [www.wago.com](http://www.wago.com)

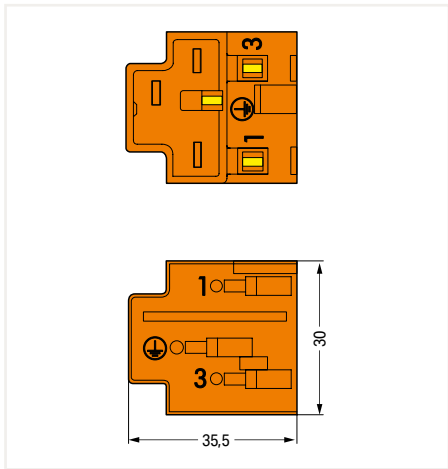
**Male connector ▶ 730 Series**

Pole No.: 3 ▶ CAGE CLAMP® ▶ Actuation type: Operating tool ▶ 2.5 mm<sup>2</sup> ▶ Color: orange



730-113

Color	Pole No.	Item No.	PU
orange	3	730-113	50

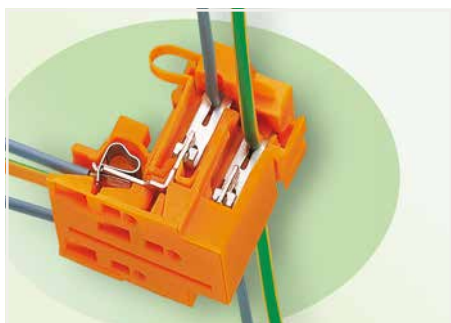


PU = Packaging Unit; SPU = Subpackaging Unit; Dimensions in mm



**Socket ▶ 730 Series**

Pole No.: 6 ▶ IDC ▶ Color: gray



- Sockets with IDC for tapping individual conductors without stripping
- Three-pole sockets automatically cut "live" conductors (e.g., door switches in elevator shafts)
- Sockets available with additional mounting flanges

**Electrical Data**

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	500 V	630 V	1000 V
Rated impulse voltage	6 kV	6 kV	6 kV
Rated current	10 A	10 A	10 A

Approbations per	UL 1059		
Use group	B	C	D
Rated voltage	-	600 V	-
Rated current	-	10 A	-

Approbations per	CSA		
Use group	B	C	D
Rated voltage	-	600 V	-
Rated current	-	10 A	-

**Connection Data**

Connection technology	IDC
Fine-stranded conductor	0.75 ... 1.5 mm <sup>2</sup> / 18 ... 16 AWG

**Material Data**

Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Brass
Contact plating	Tin-plated

**Environmental Requirements**

Limit temperature range	-60 ... +85 °C
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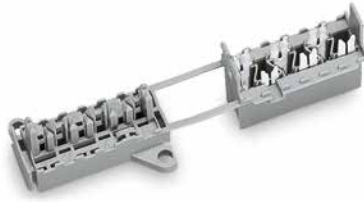
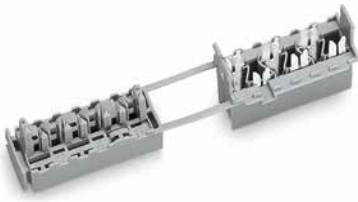
See technical section for further information

For approvals and corresponding ratings, visit [www.wago.com](http://www.wago.com)

### Socket ▶ 730 Series

Pole No.: 6 ▶ IDC ▶ Color: gray

Mounting type: Mounting flange

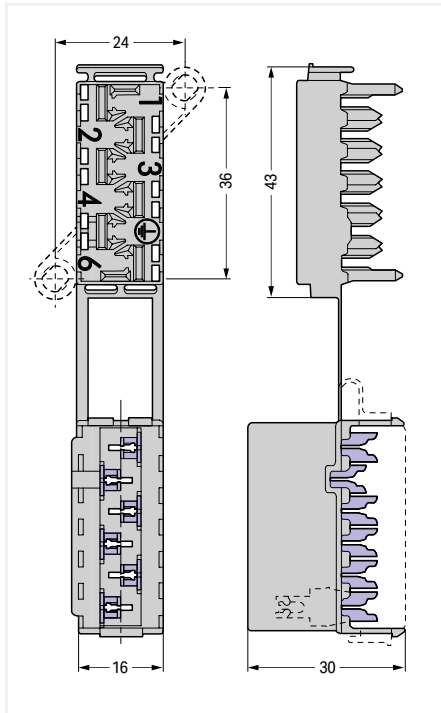
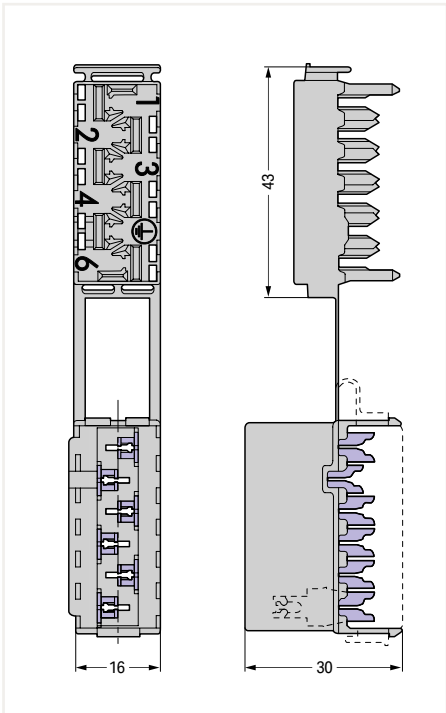


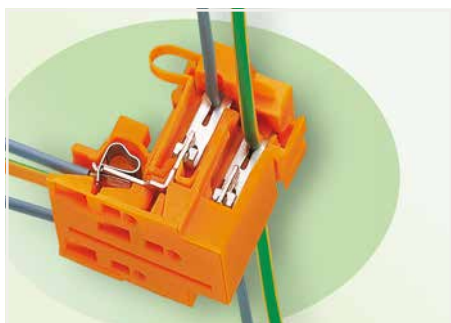
730-106

730-126

Color	Pole No.	Item No.	PU
● gray	6	730-106	50

Color	Pole No.	Item No.	PU
● gray	6	730-126	50



**Male connector ▶ 730 Series****Pole No.: 6 ▶ CAGE CLAMP® ▶ Actuation type: Operating tool ▶ 2.5 mm<sup>2</sup> ▶ Color: gray**

- Plugs with CAGE CLAMP® for the universal connection of all conductor types

**Electrical Data**

		IEC/EN 60664-1		
Ratings per		III	III	II
Overvoltage category		3	2	2
Pollution degree		3	2	2
Rated voltage		500 V	630 V	1000 V
Rated impulse voltage		6 kV	6 kV	6 kV
Rated current		10 A	10 A	10 A
Approbations per		UL 1059		
Use group		B	C	D
Rated voltage		-	600 V	-
Rated current		-	10 A	-
Approbations per		CSA		
Use group		B	C	D
Rated voltage		-	600 V	-
Rated current		-	10 A	-

**Connection Data**

Connection technology	CAGE CLAMP®
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm <sup>2</sup>
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm <sup>2</sup>

**Material Data**

Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Electrolytic copper (E <sub>cu</sub> )
Contact plating	Tin-plated

**Environmental Requirements**

Limit temperature range	-60 ... +85 °C
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See technical section for further information

For approvals and corresponding ratings, visit [www.wago.com](http://www.wago.com)

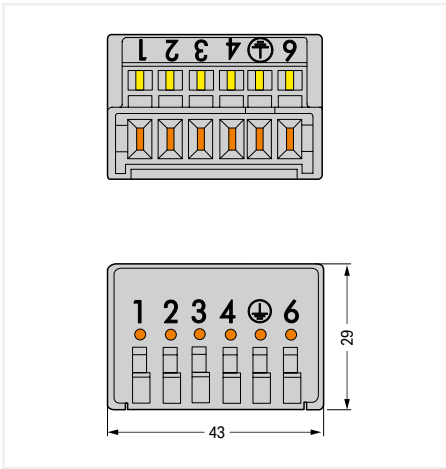
**Male connector ▶ 730 Series**

Pole No.: 6 ▶ CAGE CLAMP® ▶ Actuation type: Operating tool ▶ 2.5 mm<sup>2</sup> ▶ Color: gray



730-116

Color	Pole No.	Item No.	PU
● gray	6	730-116	50



## 4-conductor modular PCB connector ▶ 243 Series for KNX/EIB bus coupler units ▶ PUSH WIRE®



- Compact, 4-conductor KNX/EIB connectors with PUSH WIRE® connection
- Push-in termination of solid conductors
- Four-conductor entries allow devices to be replaced without disrupting the KNX/EIB bus connection

### Electrical Data

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	250 V	100 V	630 V
Rated impulse voltage	4 kV	4 kV	4 kV
Rated current	6 A	6 A	6 A

### Connection Data

Connection technology	PUSH WIRE®
Strip length	5 ... 6 mm / 0.2 ... 0.24 inch
Conductor diameter	0.6 ... 0.8 mm
Conductor diameter (note)	When using different conductor diameters
Conductor diameter 2	1 mm
Conductor diameter (note) 2	When using identical conductor diameters

### Material Data

Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Electrolytic copper (E <sub>cu</sub> )
Contact plating	Tin-plated

### Environmental Requirements

Limit temperature range	-60 ... +105 °C
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See technical section for further information

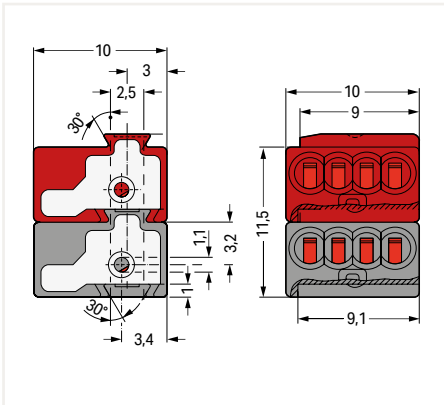
For approvals and corresponding ratings, visit [www.wago.com](http://www.wago.com)

## 4-conductor modular PCB connector ▶ 243 Series for KNX/EIB bus coupler units ▶ PUSH WIRE®



Color	Item No.	PU (SPU)
○ light gray/yellow	243-212	500 (50)
○ dark gray/red	243-211	500 (50)

The KNX bus system is the intelligent solution to simplify existing building installation control. Instead of many different conventional wiring styles, the KNX bus system offers a flexible general solution for every application in the field of switching, controlling, measuring, monitoring and signaling.



The decentralized KNX system consists of active and intelligent modules. The system can be customized using the different KNX components.

For example, pairs of sensors/actuators control:

- lighting
- window blinds
- heating/ventilation
- energy management systems
- information display/transmission

Command data is transmitted via twisted-pair bus cable, which is connected to the sensors and actuators by WAGO PUSH WIRE® connectors.

The sensors transmit the commands as "telegrams" to the actuators via the bus. Once the information is gathered, the commands are performed by the actuators. An address is assigned to each "telegram" so that only a defined transmitter is allowed to activate a specified receiver. The address assignment is done using a programming tool.

The bus system is divided into "lines" (segments). The bus lines can be laid out either in a line, star or tree topology. WAGO's PUSH WIRE® connectors connect the different branches to one another in the junction boxes.

New components can be easily added to the existing bus, permitting future expansion of the installation. When future reallocation of rooms, floors or buildings is required, the installation remains unchanged, so that only the sensors must be reassigned to the actuators.