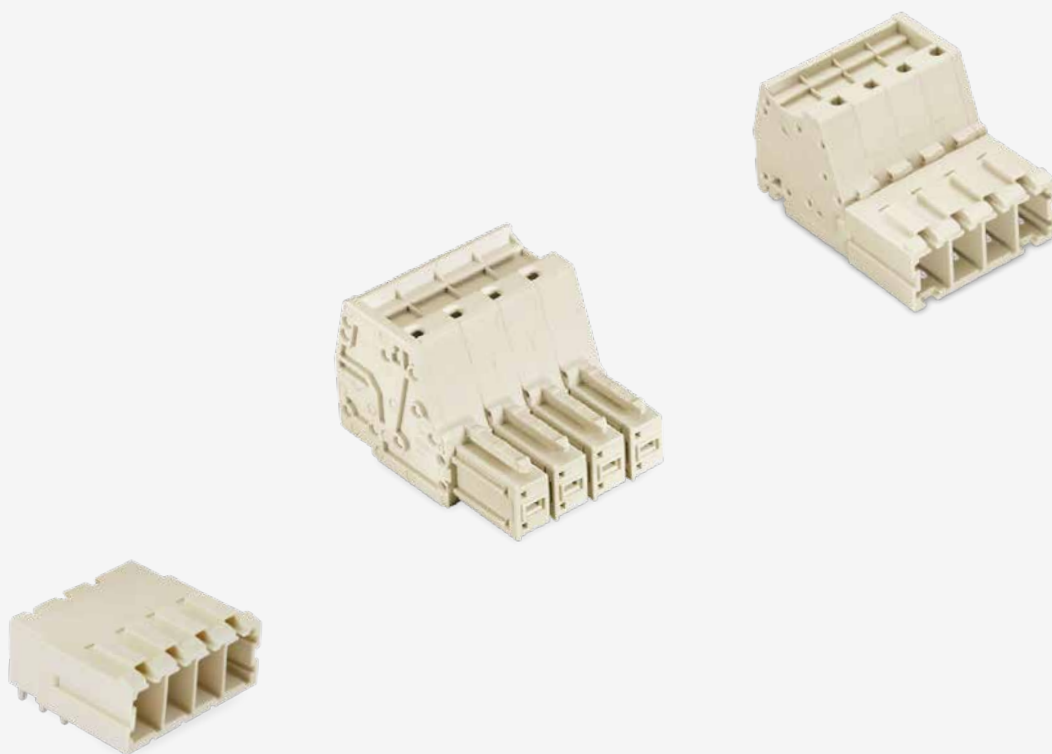




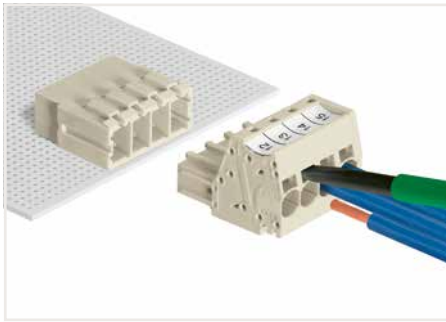
WAGO MULTI CONNECTION SYSTEM MAXI

Connectors / Headers

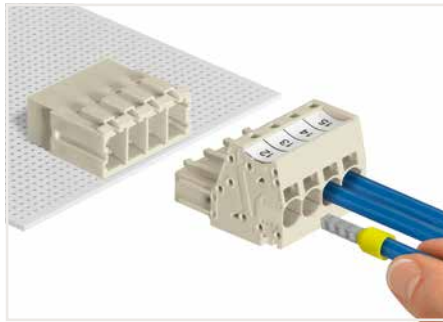
WAGO MULTI CONNECTION SYSTEM MAXI 6 ▶ Pin Spacing: 7.62 mm ▶ 10 mm²

WAGO MULTI CONNECTION SYSTEM MAXI 16 ▶ Pin Spacing: 10.16 mm ▶ 16 mm²

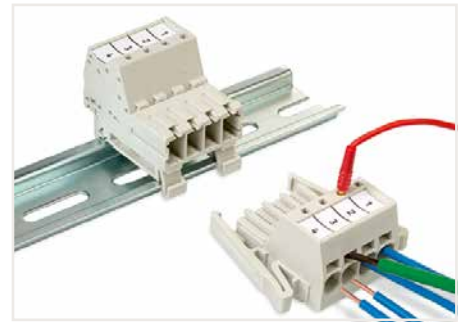
		Nominal Cross-Section	Page
	MCS MAXI 6 1-Conductor Female Connectors ▶ Actuation type: Operating tool ▶ CAGE CLAMP®	7,62 mm	746
	MCS MAXI 6 1-Conductor Female Connectors ▶ Actuation type: Lever ▶ Push-in CAGE CLAMP®	7,62 mm	748
	MCS MAXI 6 1-Conductor Male Connectors ▶ Actuation type: Operating tool ▶ CAGE CLAMP®	7,62 mm	752
	MCS MAXI 6 1-Conductor Male Connectors ▶ Actuation type: Lever ▶ Push-in CAGE CLAMP®	7,62 mm	754
	MCS MAXI 6 THT Male Headers	7,62 mm	756
	MCS MAXI 16 1-Conductor Female Connectors ▶ Actuation type: Lever ▶ Push-in CAGE CLAMP®	10,16 mm	760
	MCS MAXI 16 1-Conductor Male Connectors ▶ Actuation type: Lever ▶ Push-in CAGE CLAMP®	10,16 mm	764
	MCS MAXI 16 THT Male Headers	10,16 mm	766
	MCS MAXI Accessories		768
	Accessories and Tools		853

MCS MAXI 6**Description and Installation**

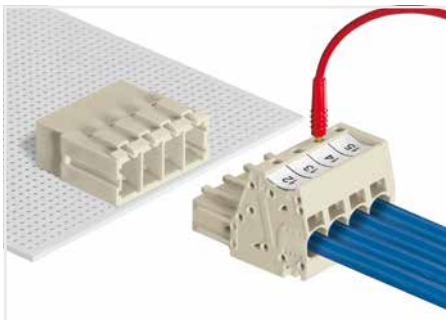
Inserting fine-stranded conductors via (5.5 x 0.8) mm screwdriver.



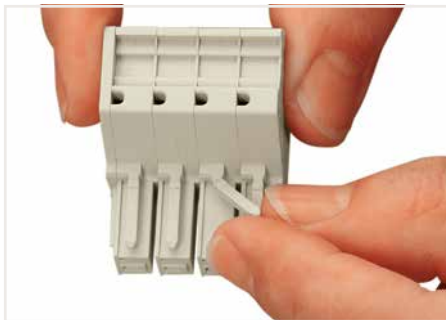
Inserting solid and ferruled conductors via push-in termination.



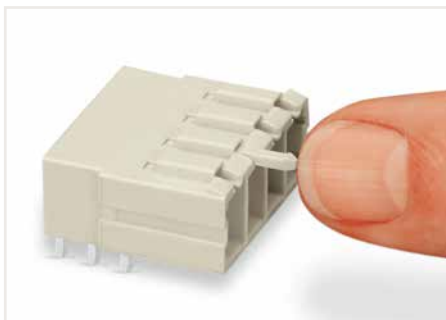
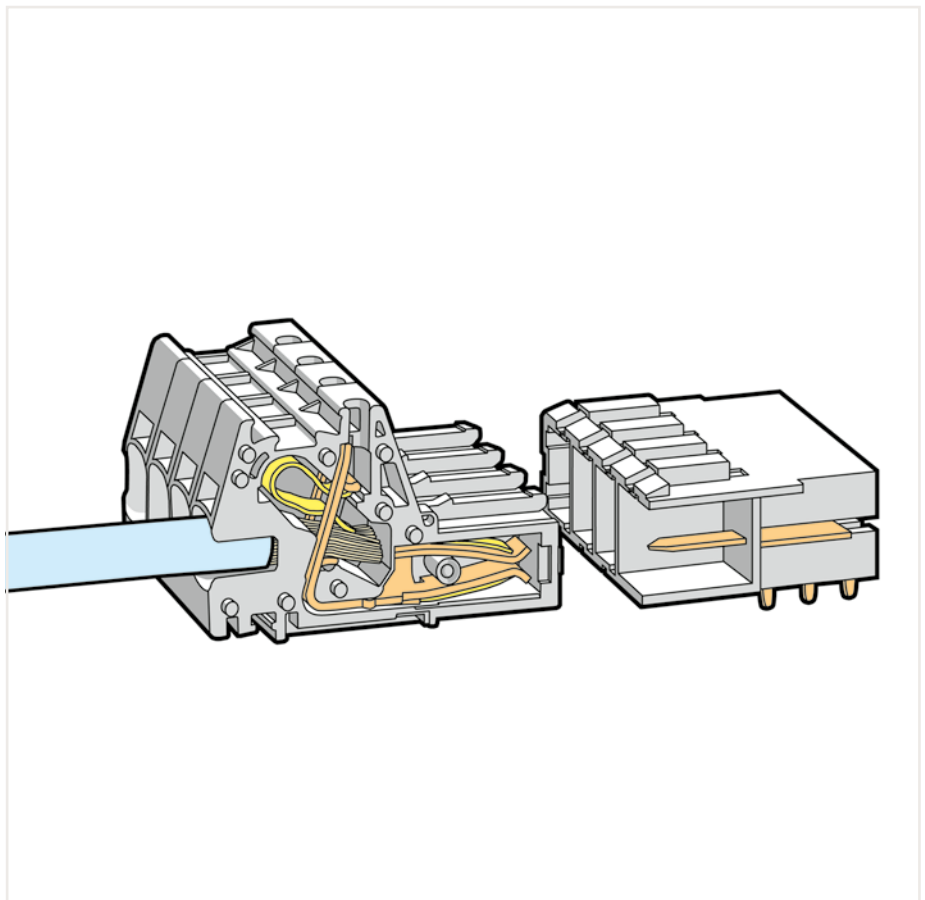
Male connector mounted on a DIN-35 rail via integrated mounting adapter.



Testing with 2 mm Ø test plug.



Break or cut off coding pin from female connector.



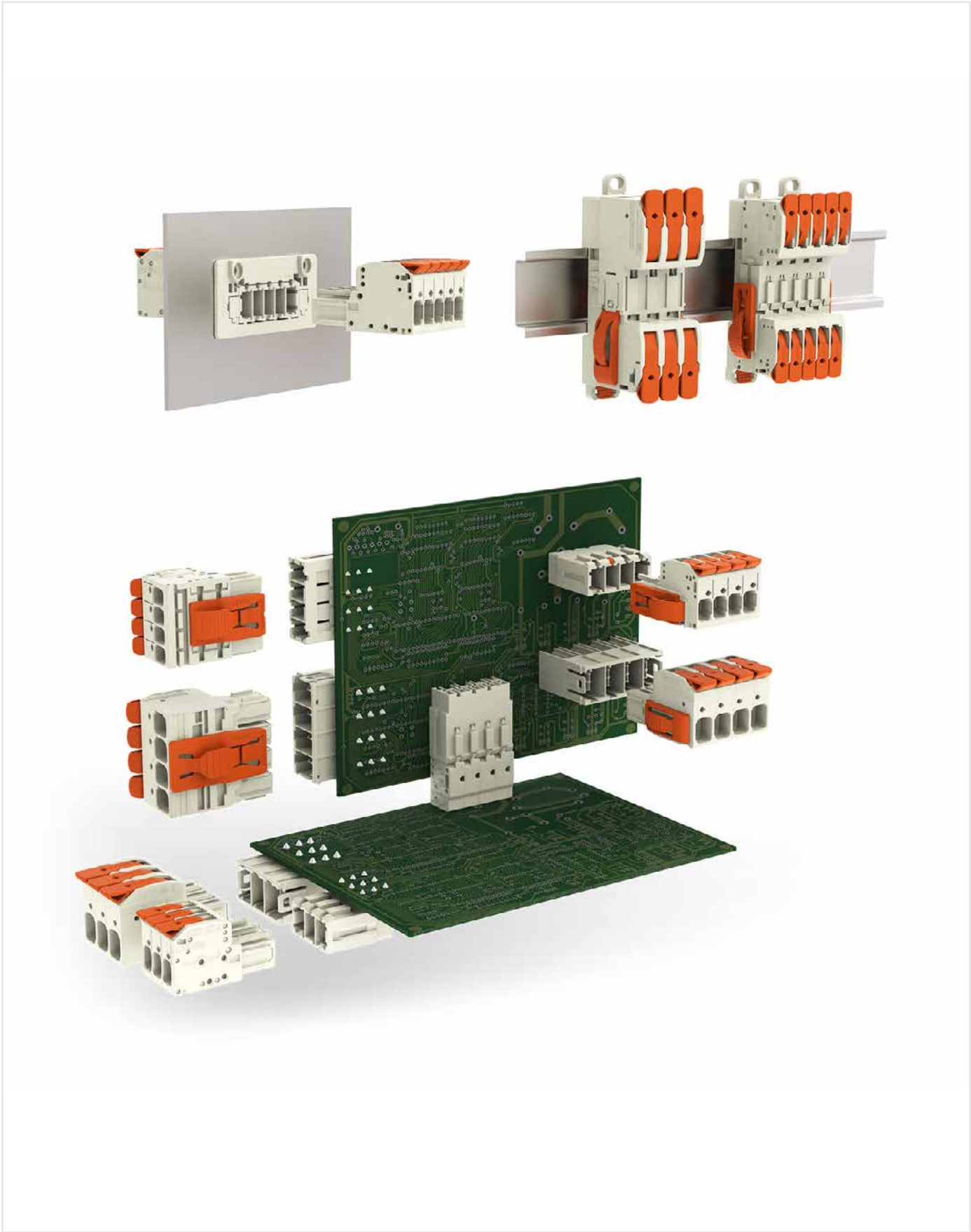
Insert coding pin into male header (break first) until it engages.



Marking via WMB or Mini-WSB marking strips.



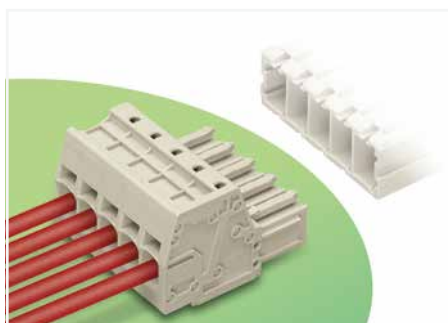
Labeling via direct marking.



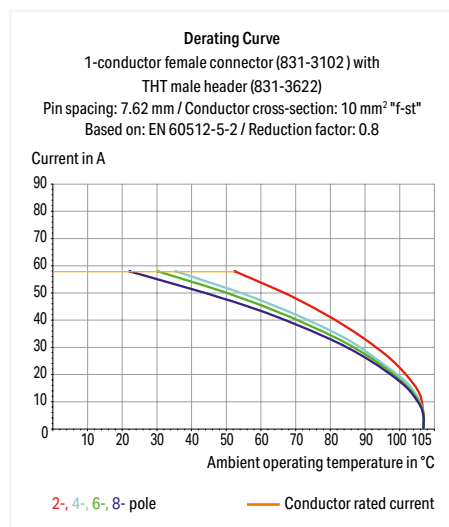
1-conductor female connector ► MCS MAXI 6 ► 831 Series

Pin spacing: 7.62 mm / 0.3 inches ► Actuation type: Operating tool ► Push-in CAGE CLAMP® ►

Conductor entry direction to mating direction: 0° ► Color: light gray



- Universal connection for all conductor types
- Push-in termination of solid or ferruled conductors
- Integrated test ports for 2 mm Ø test plugs
- 600 V UL per UL 1059
- 100 % protected against mismatching
- Coding via coding fingers



Electrical data

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	800 V	1000 V	1000 V
Rated surge voltage	8 kV	8 kV	8 kV
Rated current	41 A	41 A	41 A
Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	-	600 V	-
Rated current	-	42 A	-
Approvals per	CSA		
Use group	B	C	D
Rated voltage	-	600 V	-
Rated current	-	41 A	-

Connection data

Connection technology	Push-in CAGE CLAMP®
Strip length	13 ... 15 mm / 0.51 ... 0.59 inches
Solid conductor	0.5 ... 10 mm² / 20 ... 8 AWG
Fine-stranded conductor	0.5 ... 10 mm² / 20 ... 8 AWG
Fine-stranded conductor; with insulated ferrule	0.5 ... 6 mm²
Fine-stranded conductor; with uninsulated ferrule	0.5 ... 6 mm²

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 _{cu})
Contact plating	Tin

Environmental requirements

Limit temperature range	-60 ... +105 °C
-------------------------	-----------------

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.

Ferrule	Page 871
Marking	Page 771
Strain relief	Page 768
Test and measurement	Page 878
Tool	Page 862
Direct marking	Page 776
See technical section for further information	
Approvals and corresponding ratings, visit www.wago.com	

1-conductor female connector ▶ MCS MAXI 6 ▶ 831 Series

Pin spacing: 7.62 mm / 0.3 inches ▶ Actuation type: Operating tool ▶ Push-in CAGE CLAMP® ▶

Conductor entry direction to mating direction: 0 ° ▶ Color: light gray

Locking of plug-in connection: Locking lever

Locking of plug-in connection: Screw flange

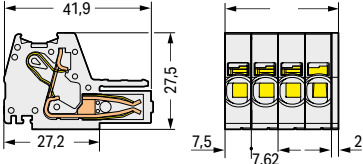






831-3104

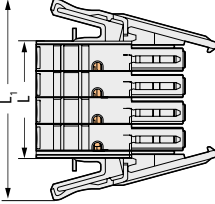
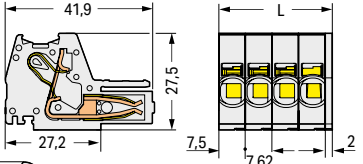
Pole number	Item no.	PU
2	831-3102	48
3	831-3103	48
4	831-3104	24
5	831-3105	24
6	831-3106	24
7	831-3107	12
8	831-3108	12
9	831-3109	12



$L = (\text{pole no.} - 1) \times \text{pin spacing} + 9.5 \text{ mm}$

831-3104/037-000

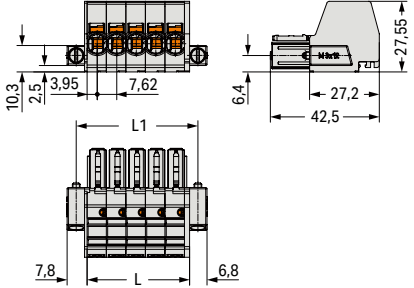
Pole number	Item no.	PU
2	831-3102/037-000	24
3	831-3103/037-000	24
4	831-3104/037-000	12
5	831-3105/037-000	12
6	831-3106/037-000	12
7	831-3107/037-000	12
8	831-3108/037-000	12
9	831-3109/037-000	12



$L = (\text{pole no.} - 1) \times \text{pin spacing} + 10.5 \text{ mm}$
 $L_1 = L + 23.7 \text{ mm}$

831-3104/107-000

Pole number	Item no.	PU
2	831-3102/107-000	24
3	831-3103/107-000	24
4	831-3104/107-000	24
5	831-3105/107-000	24
6	831-3106/107-000	12
7	831-3107/107-000	12
8	831-3108/107-000	12
9	831-3109/107-000	12



$L = \text{pole no.} \times \text{pin spacing} + 1.9 \text{ mm}$
 $L_1 = L + 7.5 \text{ mm}$

PU = packaging unit; SPU = subpackaging unit; Dimensions in mm

Variants:

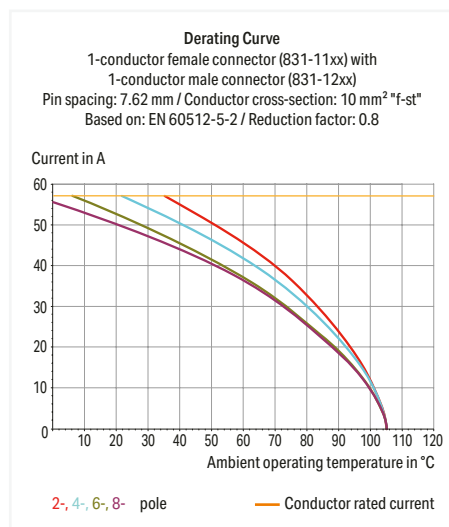
- Other pole numbers
- Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

1-conductor female connector ► MCS MAXI 6 ► 831 Series

Pin spacing: 7.62 mm / 0.3 inches ► Actuation type: Lever ► Push-in CAGE CLAMP® ► Conductor entry direction to mating direction: 0° ► Color: light gray



- Intuitive and tool-free lever actuation
- Universal connection for all conductor types
- Push-in termination of solid and ferruled conductors
- Test slot 0° and 90° to conductor entry
- 100% protected against mismatching
- Coding option available



Electrical data

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	800 V	1000 V	1000 V
Rated surge voltage	8 kV	8 kV	8 kV
Rated current	41 A	41 A	41 A
Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	-	600 V	600 V
Rated current	-	35 A	5 A
Approvals per	CSA		
Use group	B	C	D
Rated voltage	-	600 V	600 V
Rated current	-	35 A	5 A

Connection data

Connection technology	Push-in CAGE CLAMP®
Strip length	11 ... 13 mm / 0.43 ... 0.51 inches
Solid conductor	0.5 ... 10 mm ² / 20 ... 8 AWG
Fine-stranded conductor	0.5 ... 10 mm ² / 20 ... 8 AWG
Fine-stranded conductor; with insulated ferrule	0.5 ... 6 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.5 ... 6 mm ²

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 _{cu})
Contact plating	Tin

Environmental requirements

Limit temperature range	-60 ... +105 °C
Processing temperature	-35 ... +60 °C

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.

Ferrule Page 871

Mounting adapter Page 774

Strain relief Page 768

See technical section for further information

Approvals and corresponding ratings, visit www.wago.com

1-conductor female connector ▶ MCS MAXI 6 ▶ 831 Series

Pin spacing: 7.62 mm / 0.3 inches ▶ Actuation type: Lever ▶ Push-in CAGE CLAMP® ▶ Conductor entry direction to mating direction: 0 ° ▶ Color: light gray

Locking of plug-in connection: Locking lever

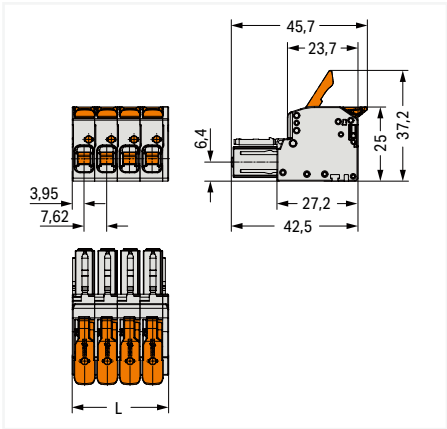
Locking of plug-in connection: Lateral locking lever



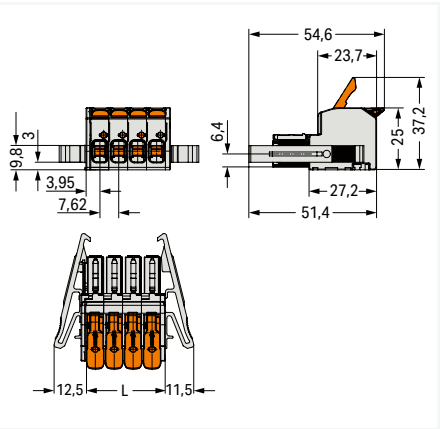
831-1104		
Pole number	Item no.	PU
2	831-1102	48
3	831-1103	48
4	831-1104	24
5	831-1105	24
6	831-1106	24
7	831-1107	12
8	831-1108	12
9	831-1109	12

831-1104/037-000		
Pole number	Item no.	PU
2	831-1102/037-000	24
3	831-1103/037-000	24
4	831-1104/037-000	12
5	831-1105/037-000	12
6	831-1106/037-000	12
7	831-1107/037-000	12
8	831-1108/037-000	12
9	831-1109/037-000	12

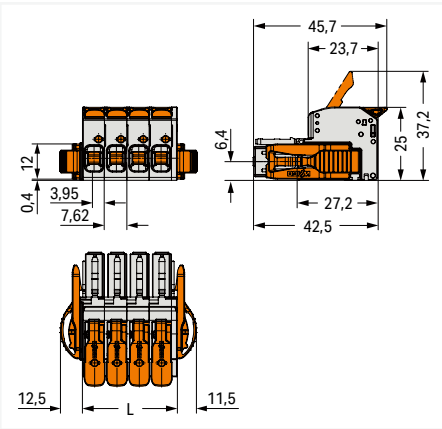
831-1104/038-000		
Pole number	Item no.	PU
2	831-1102/038-000	24
3	831-1103/038-000	24
4	831-1104/038-000	12
5	831-1105/038-000	12
6	831-1106/038-000	12
7	831-1107/038-000	12
8	831-1108/038-000	12
9	831-1109/038-000	12



L = (pole no. x pin spacing) + 1.9 mm



L = (pole no. x pin spacing) + 1.9 mm



L = (pole no. x pin spacing) + 1.9 mm

PU = packaging unit; SPU = subpackaging unit; Dimensions in mm

Variants:

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

1-conductor female connector ► MCS MAXI 6 ► 831 Series

Pin spacing: 7.62 mm / 0.3 inches ► Actuation type: Lever ► Push-in CAGE CLAMP® ► Conductor entry direction to mating direction: 0° ► Color: light gray

Locking of plug-in connection: Center locking lever

Locking of plug-in connection: Frontal locking lever

Mounting type: DIN-35 rail; Panel mounting



831-1104/322-000

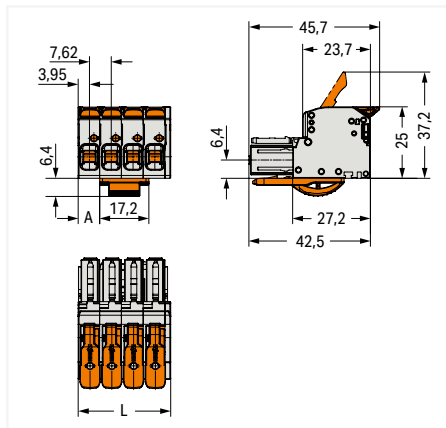
Pole number	Item no.	PU
2	831-1102/322-000	24
3	831-1103/322-000	24
4	831-1104/322-000	12
5	831-1105/322-000	12
6	831-1106/322-000	12
7	831-1107/322-000	6
8	831-1108/322-000	6
9	831-1109/322-000	6

831-1104/320-000

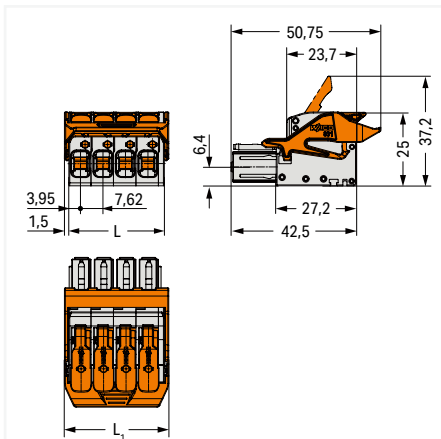
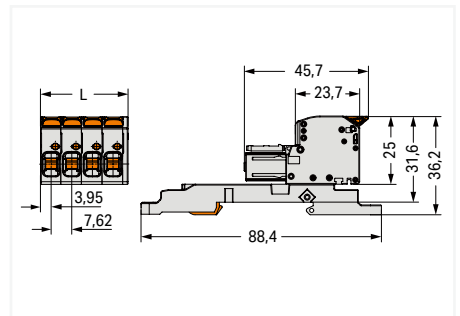
Pole number	Item no.	PU
3	831-1103/320-000	32
4	831-1104/320-000	32
5	831-1105/320-000	20

831-1104/306-000

Pole number	Item no.	PU
2	831-1102/306-000	12
3	831-1103/306-000	12
4	831-1104/306-000	6
5	831-1105/306-000	6
6	831-1106/306-000	6
7	831-1107/306-000	6
8	831-1108/306-000	6
9	831-1109/306-000	6


 $L = \text{pole no.} \times \text{pin spacing} + 1.9 \text{ mm}$

Pole no. 2: A = 0.1 mm
 Pole no. 3: A = 7.5 mm
 Pole no. 4: A = 7.5 mm
 Pole no. 5: A = 15.12 mm
 Pole no. 6: A = 15.12 mm
 Pole no. 7: A = 22.74 mm
 Pole no. 8: A = 22.74 mm
 Pole no. 9: A = 30.36 mm


 $L = \text{pole no.} \times \text{pin spacing} + 1.9 \text{ mm}$
 $L_1 = L + 3 \text{ mm}$

 $L = (\text{pole no.} \times \text{pin spacing}) + 1.9 \text{ mm}$

PU = packaging unit; SPU = subpackaging unit; Dimensions in mm

Variants:

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

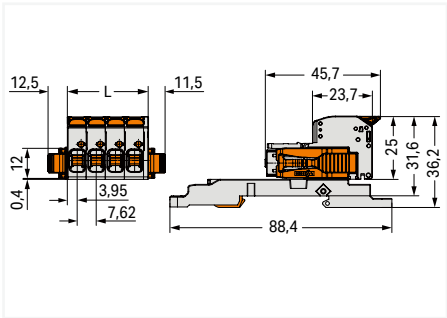
1-conductor female connector ► MCS MAXI 6 ► 831 Series
Pin spacing: 7.62 mm / 0.3 inches ► Actuation type: Lever ► Push-in CAGE CLAMP® ► Conductor entry direction to mating direction: 0 ° ► Color: light gray

Mounting type: DIN-35 rail; Panel mounting ► Locking of plug-in connection: Lateral locking lever



831-1104/038-000/306-000

Pole number	Item no.	PU
2	831-1102/038-000/306-000	12
3	831-1103/038-000/306-000	12
4	831-1104/038-000/306-000	6
5	831-1105/038-000/306-000	6
6	831-1106/038-000/306-000	6
7	831-1107/038-000/306-000	6
8	831-1108/038-000/306-000	6
9	831-1109/038-000/306-000	6



$L = (\text{pole no.} \times \text{pin spacing}) + 1.9 \text{ mm}$

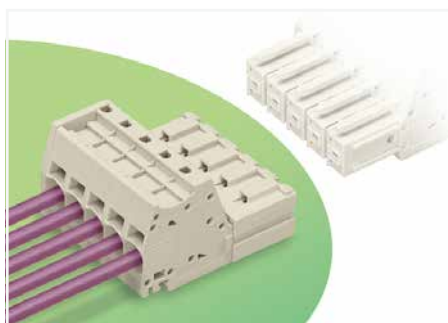
PU = packaging unit; SPU = subpackaging unit; Dimensions in mm

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

1-conductor male connector ► MCS MAXI 6 ► 831 Series

Pin spacing: 7.62 mm / 0.3 inches ► Actuation type: Operating tool ► Push-in CAGE CLAMP® ►

Conductor entry direction to mating direction: 0 ° ► Color: light gray

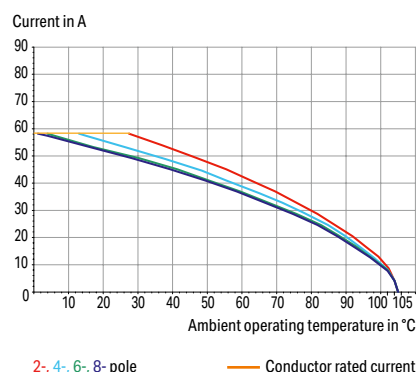


- Universal connection for all conductor types
- Push-in termination of solid or ferruled conductors
- Integrated test ports for 2 mm Ø test plugs
- 600 V UL per UL 1059
- 100 % protected against mismatching
- Coding via coding fingers

Derating Curve

1-conductor female connector (831-3102) with
1-conductor male connector (831-3202)

Pin spacing: 7.62 mm / Conductor cross-section: 10 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 0.8



Electrical data

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	800 V	1000 V	1000 V
Rated surge voltage	8 kV	8 kV	8 kV
Rated current	41 A	41 A	41 A
Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	-	600 V	-
Rated current	-	42 A	-
Approvals per	CSA		
Use group	B	C	D
Rated voltage	-	600 V	-
Rated current	-	41 A	-

Connection data

Connection technology	Push-in CAGE CLAMP®
Strip length	13 ... 15 mm / 0.51 ... 0.59 inches
Solid conductor	0.5 ... 10 mm² / 20 ... 8 AWG
Fine-stranded conductor	0.5 ... 10 mm² / 20 ... 8 AWG
Fine-stranded conductor; with insulated ferrule	0.5 ... 6 mm²
Fine-stranded conductor; with uninsulated ferrule	0.5 ... 6 mm²

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 _{cu})
Contact plating	Tin

Environmental requirements

Limit temperature range	-60 ... +105 °C
Processing temperature	-35 ... +60 °C

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.

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Strain relief	Page 768
Test and measurement	Page 878
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Direct marking	Page 776
See technical section for further information	
Approvals and corresponding ratings, visit www.wago.com	

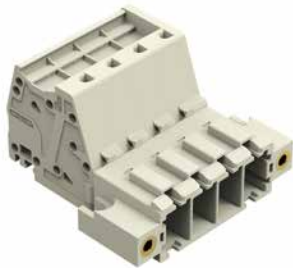
1-conductor male connector ▶ MCS MAXI 6 ▶ 831 Series

Pin spacing: 7.62 mm / 0.3 inches ▶ Actuation type: Operating tool ▶ Push-in CAGE CLAMP® ▶

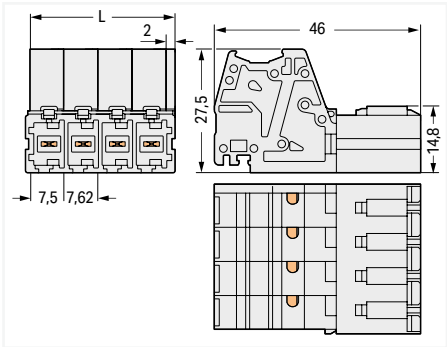
Conductor entry direction to mating direction: 0 ° ▶ Color: light gray

Locking of plug-in connection: Threaded flange

Mounting type: DIN-35 rail

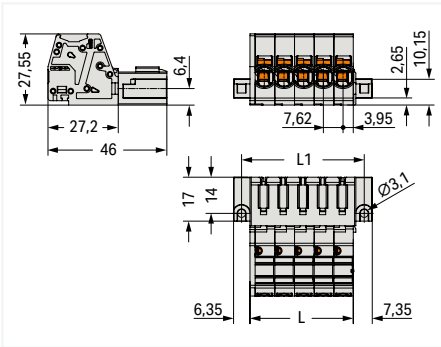


831-3204		
Pole number	Item no.	PU (SPU)
2	831-3202	48
3	831-3203	24
4	831-3204	24
5	831-3205	24
6	831-3206	24 (1)
7	831-3207	12
8	831-3208	12
9	831-3209	12



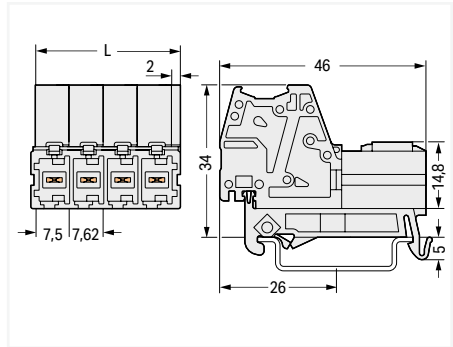
L = (pole no. – 1) x pin spacing + 9.5 mm

831-3204/109-000		
Pole number	Item no.	PU
2	831-3202/109-000	24
3	831-3203/109-000	24
4	831-3204/109-000	24
5	831-3205/109-000	24
6	831-3206/109-000	12
7	831-3207/109-000	12
8	831-3208/109-000	12
9	831-3209/109-000	12



L = pole no. x pin spacing + 1.9 mm
L1 = L + 7.5 mm

831-3204/007-000		
Pole number	Item no.	PU
2	831-3202/007-000	48
3	831-3203/007-000	48
4	831-3204/007-000	24
5	831-3205/007-000	24
6	831-3206/007-000	24
7	831-3207/007-000	12
8	831-3208/007-000	12
9	831-3209/007-000	12



L = (pole no. – 1) x pin spacing + 9.5 mm

PU = packaging unit; SPU = subpackaging unit; Dimensions in mm

Variants:

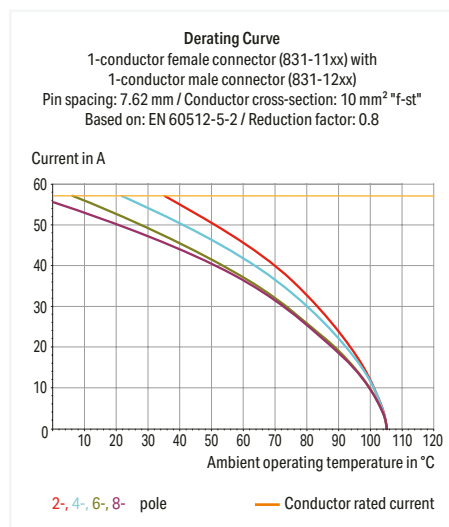
- Other pole numbers
- Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

1-conductor male connector ► MCS MAXI 6 ► 831 Series

Pin spacing: 7.62 mm / 0.3 inches ► Actuation type: Lever ► Push-in CAGE CLAMP® ► Conductor entry direction to mating direction: 0° ► Color: light gray



- Intuitive and tool-free lever actuation
- Universal connection for all conductor types
- Push-in termination of solid and ferruled conductors
- Test slot 0° and 90° to conductor entry
- 100% protected against mismatching
- Coding option available



Electrical data

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	800 V	1000 V	1000 V
Rated surge voltage	8 kV	8 kV	8 kV
Rated current	41 A	41 A	41 A
Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	-	600 V	600 V
Rated current	-	35 A	5 A
Approvals per	CSA		
Use group	B	C	D
Rated voltage	-	600 V	600 V
Rated current	-	35 A	5 A

Connection data

Connection technology	Push-in CAGE CLAMP®
Strip length	11 ... 13 mm / 0.43 ... 0.51 inches
Solid conductor	0.5 ... 10 mm ² / 20 ... 8 AWG
Fine-stranded conductor	0.5 ... 10 mm ² / 20 ... 8 AWG
Fine-stranded conductor; with insulated ferrule	0.5 ... 6 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.5 ... 6 mm ²

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 _{cu})
Contact plating	Tin

Environmental requirements

Limit temperature range	-60 ... +105 °C
Processing temperature	-35 ... +60 °C

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.

Ferrule	Page 871
Installation	Page 770
Mounting adapter	Page 774
Strain relief	Page 768
See technical section for further information	
Approvals and corresponding ratings, visit www.wago.com	

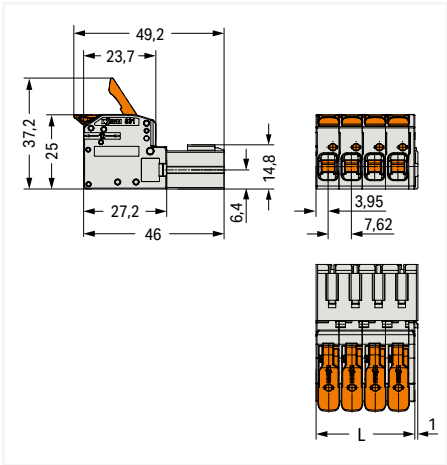
1-conductor male connector ▶ MCS MAXI 6 ▶ 831 Series
Pin spacing: 7.62 mm / 0.3 inches ▶ Actuation type: Lever ▶ Push-in CAGE CLAMP® ▶ Conductor entry direction to mating direction: 0 ° ▶ Color: light gray

Mounting type: DIN-35 rail; Panel mounting

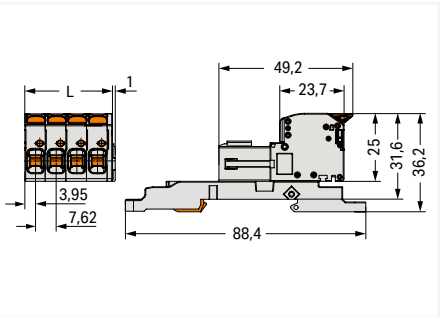


831-1204		
Pole number	Item no.	PU
2	831-1202	48
3	831-1203	24
4	831-1204	24
5	831-1205	24
6	831-1206	24
7	831-1207	12
8	831-1208	12
9	831-1209	12

831-1204/306-000		
Pole number	Item no.	PU
2	831-1202/306-000	12
3	831-1203/306-000	12
4	831-1204/306-000	6
5	831-1205/306-000	6
6	831-1206/306-000	6
7	831-1207/306-000	6
8	831-1208/306-000	6
9	831-1209/306-000	6



L = (pole no. x pin spacing) + 1.9 mm



L = (pole no. x pin spacing) + 1.9 mm

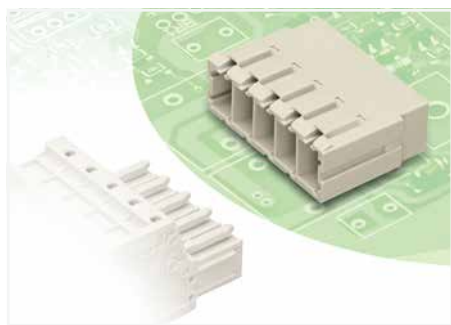
PU = packaging unit; SPU = subpackaging unit; Dimensions in mm

Variants:

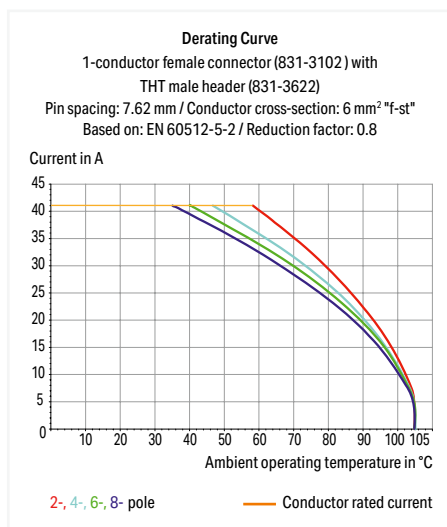
- Other colors
- Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

THT male header ► MCS MAXI 6 ► 831 Series

Pin spacing: 7.62 mm / 0.3 inches ► Solder pin dimensions: 1 x 1.2 mm ► Color: light gray



- Male headers may be mounted horizontally or vertically via straight or angled solder pins
- Three solder pins per pole provide high electrical and mechanical stability
- 100 % protected against mismatching
- Coding via coding fingers



Electrical data

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	500 V	630 V	1000 V
Rated surge voltage	6 kV	6 kV	6 kV
Rated current	41 A	41 A	41 A
Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	-	300 V	600 V
Rated current	-	42 A	5 A
Approvals per	CSA		
Use group	B	C	D
Rated voltage	-	300 V	600 V
Rated current	-	41 A	5 A

Material Data

Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E _{cu})
Contact plating	Tin

Mechanical Data

Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	3
Solder pin length	4 mm
Solder pin dimensions	1 x 1.2 mm
Drilled hole diameter with tolerance	1.7 ^(+0.1) mm

Environmental requirements

Limit temperature range	-60 ... +105 °C
Processing temperature	-35 ... +60 °C

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.

Coding Page 769

See technical section for further information

Approvals and corresponding ratings, visit www.wago.com

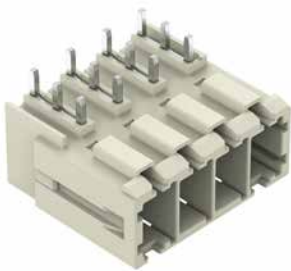
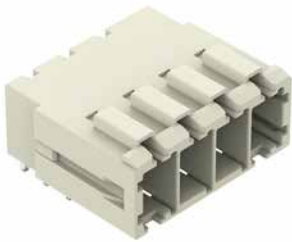
THT male header ▶ MCS MAXI 6 ▶ 831 Series

Pin spacing: 7.62 mm / 0.3 inches ▶ Solder pin dimensions: 1 x 1.2 mm ▶ Color: light gray

Mating direction to the PCB: 0°

Mating direction to the PCB: 180°

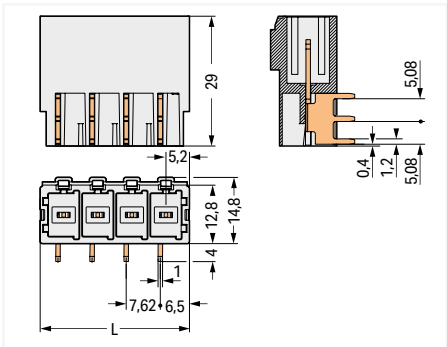
Mating direction to the PCB: 90°



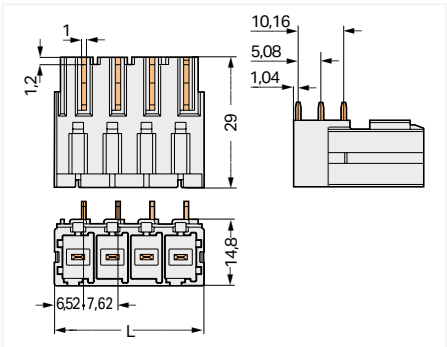
831-3624		
Pole number	Item no.	PU
2	831-3622	48
3	831-3623	48
4	831-3624	24
5	831-3625	24
6	831-3626	24
7	831-3627	12
8	831-3628	12
9	831-3629	12

831-3644		
Pole number	Item no.	PU
2	831-3642	48
3	831-3643	48
4	831-3644	24
5	831-3645	24
6	831-3646	24
7	831-3647	12
8	831-3648	12
9	831-3649	12

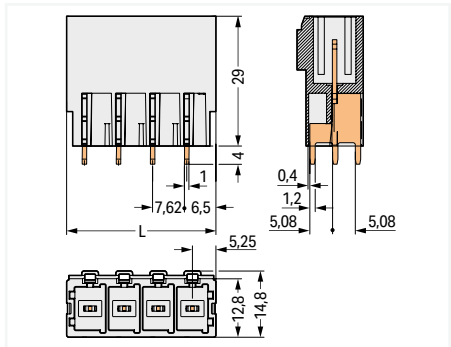
831-3604		
Pole number	Item no.	PU
2	831-3602	48
3	831-3603	48
4	831-3604	24
5	831-3605	24
6	831-3606	24
7	831-3607	12
8	831-3608	12
9	831-3609	12



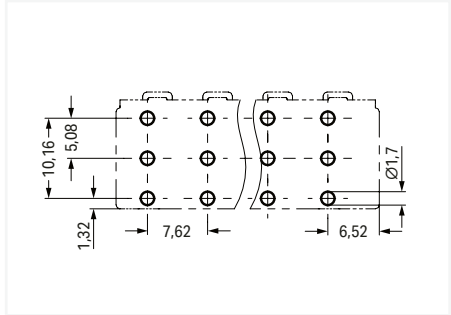
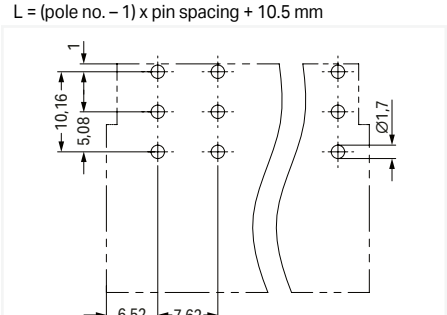
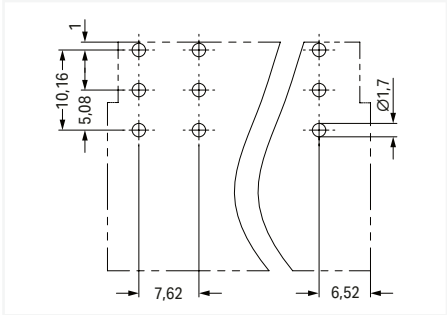
L = (pole no. – 1) x pin spacing + 10.5 mm



L = (pole no. – 1) x pin spacing + 10.5 mm



L = (pole no. – 1) x pin spacing + 10.5 mm



PU = packaging unit; SPU = subpackaging unit; Dimensions in mm

Variants:

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

THT male header ► MCS MAXI 6 ► 831 Series**Pin spacing: 7.62 mm / 0.3 inches ► Solder pin dimensions: 1 x 1.2 mm ► Color: light gray**

Locking of plug-in connection: Threaded flange ► Mating direction to the PCB: 0°

Locking of plug-in connection: Threaded flange ► Mating direction to the PCB: 90°

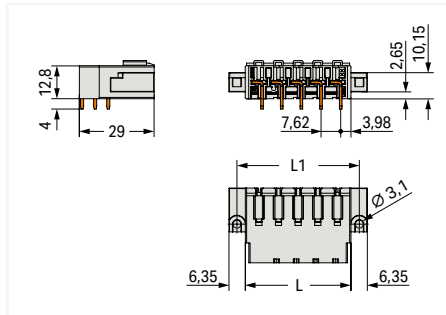


831-3624/108-000

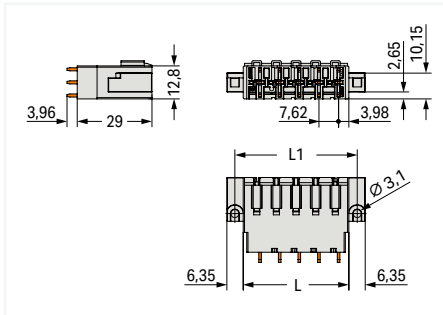
831-3604/108-000

Pole number	Item no.	PU
2	831-3622/108-000	48
3	831-3623/108-000	24
4	831-3624/108-000	24
5	831-3625/108-000	24
6	831-3626/108-000	24
7	831-3627/108-000	12
8	831-3628/108-000	12
9	831-3629/108-000	12

Pole number	Item no.	PU
2	831-3602/108-000	48
3	831-3603/108-000	24
4	831-3604/108-000	24
5	831-3605/108-000	24
6	831-3606/108-000	24
7	831-3607/108-000	12
8	831-3608/108-000	12
9	831-3609/108-000	12



$L = \text{pole no.} \times \text{pin spacing} + 2.9 \text{ mm}$
 $L1 = L + 6.5 \text{ mm}$



$L = \text{pole no.} \times \text{pin spacing} + 2.9 \text{ mm}$
 $L1 = L + 6.5 \text{ mm}$

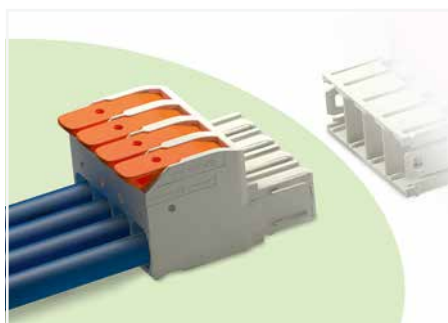
PU = packaging unit; SPU = subpackaging unit; Dimensions in mm

Variants:

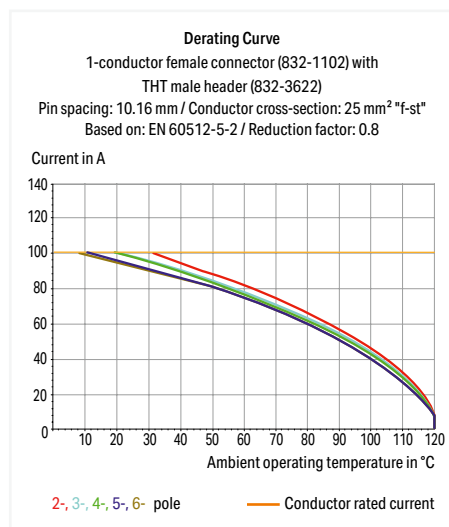
- Other pole numbers
- Protection against PCB mounting errors
- Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

1-conductor female connector ► MCS MAXI 16 ► 832 Series

Pin spacing: 10.16 mm / 0.4 inches ► Actuation type: Lever ► Push-in CAGE CLAMP® ► Conductor entry direction to mating direction: 0° ► Color: light gray



- Intuitive and tool-free lever actuation
- Universal connection for all conductor types
- Push-in termination of solid or ferruled conductors
- Test slot 0° and 90° to conductor entry
- 100% protected against mismatching
- Coding option available



Electrical data

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	1000 V	1000 V	1000 V
Rated surge voltage	8 kV	8 kV	8 kV
Rated current	76 A	76 A	76 A
Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	600 V	600 V	-
Rated current	66 A	66 A	-
Approvals per	UL 1977		
Rated voltage	600 V		
Rated current	85 A		
Approvals per	CSA		
Use group	B	C	D
Rated voltage	600 V	600 V	-
Rated current	66 A	66 A	-

Connection data

Connection technology	Push-in CAGE CLAMP®
Strip length	18 ... 20 mm / 0.71 ... 0.79 inches
Solid conductor	0.75 ... 16 mm² / 18 ... 4 AWG
Fine-stranded conductor	0.75 ... 25 mm² / 18 ... 4 AWG
Fine-stranded conductor; with insulated ferrule	0.75 ... 16 mm²
Fine-stranded conductor; with uninsulated ferrule	0.75 ... 16 mm²

Material Data

Insulation material	Polybutylene terephthalate (PBT)
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{cu})
Contact plating	Silver

Environmental requirements

Limit temperature range	-60 ... +120 °C
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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.

Coding	Page 769
Ferrule	Page 871
Locking system	Page 773
Mounting adapter	Page 774
Strain relief	Page 772
See technical section for further information	
Approvals and corresponding ratings, visit www.wago.com	

1-conductor female connector ▶ MCS MAXI 16 ▶ 832 Series

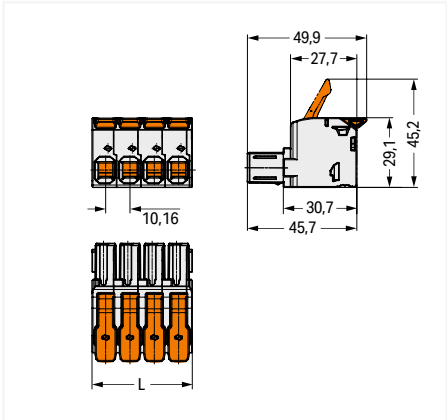
Pin spacing: 10.16 mm / 0.4 inches ▶ Actuation type: Lever ▶ Push-in CAGE CLAMP® ▶ Conductor entry direction to mating direction: 0 ° ▶ Color: light gray

Strain relief plate

Locking of plug-in connection: Lateral locking lever

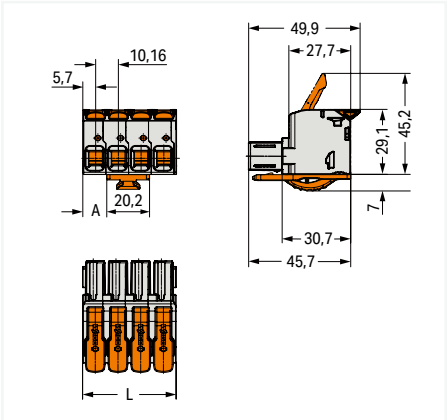


832-1104		
Pole number	Item no.	PU
2	832-1102	60
3	832-1103	45
4	832-1104	20
5	832-1105	20
6	832-1106	10



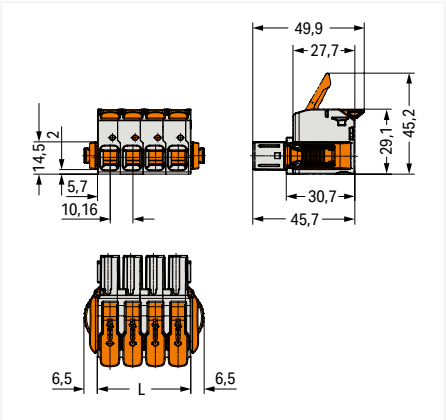
L = (pole no. x pin spacing) + 1.3 mm

832-1104/344-000		
Pole number	Item no.	PU
2	832-1102/342-000	20
3	832-1103/343-000	15
4	832-1104/344-000	10
5	832-1105/345-000	10
6	832-1106/344-000	5



L = pole no. x pin spacing + 1.3 mm
Pole no. 2: A = 0.68 mm
Pole no. 3: A = 5.76 mm
Pole no. 4: A = 10.84 mm
Pole no. 5: A = 15.92 mm
Pole no. 6: A = 21 mm

832-1104/037-000		
Pole number	Item no.	PU
2	832-1102/037-000	20
3	832-1103/037-000	15
4	832-1104/037-000	10
5	832-1105/037-000	10
6	832-1106/037-000	10



L = (pole no. x pin spacing) + 1.3 mm

PU = packaging unit; SPU = subpackaging unit; Dimensions in mm

Variants:

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

1-conductor female connector ► MCS MAXI 16 ► 832 Series

Pin spacing: 10.16 mm / 0.4 inches ► Actuation type: Lever ► Push-in CAGE CLAMP® ► Conductor entry direction to mating direction: 0° ► Color: light gray

Locking of plug-in connection: Center locking lever

Locking of plug-in connection: Frontal locking lever

Mounting type: DIN-35 rail; Panel mounting



832-1104/322-000

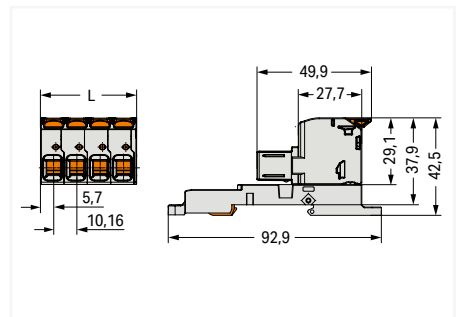
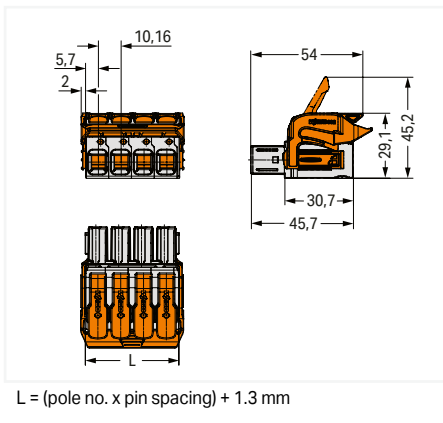
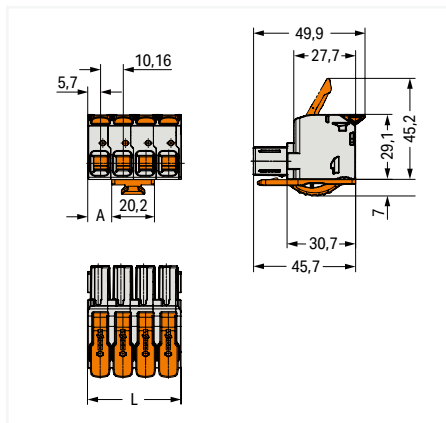
Pole number	Item no.	PU
2	832-1102/322-000	20
3	832-1103/323-000	15
4	832-1104/322-000	10
5	832-1105/323-000	10
6	832-1106/322-000	5

832-1104/320-000

Pole number	Item no.	PU
2	832-1102/320-000	60
3	832-1103/320-000	45
4	832-1104/320-000	20
5	832-1105/320-000	20
6	832-1106/320-000	10

832-1104/306-000

Pole number	Item no.	PU
2	832-1102/306-000	5
3	832-1103/306-000	5
4	832-1104/306-000	5
5	832-1105/306-000	5
6	832-1106/306-000	5



$$L = (\text{pole no.} \times \text{pin spacing}) + 1.3 \text{ mm}$$

$$L = \text{pole no.} \times \text{pin spacing} + 1.3 \text{ mm}$$

Pole no. 2: A = 0.68 mm
 Pole no. 3: A = 5.76 mm
 Pole no. 4: A = 10.84 mm
 Pole no. 5: A = 15.92 mm
 Pole no. 6: A = 21 mm

PU = packaging unit; SPU = subpackaging unit; Dimensions in mm

Variants:

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

1-conductor female connector ▶ MCS MAXI 16 ▶ 832 Series

Pin spacing: 10.16 mm / 0.4 inches ▶ Actuation type: Lever ▶ Push-in CAGE CLAMP® ▶ Conductor entry direction to mating direction: 0 ° ▶ Color: light gray

Mounting type: DIN-35 rail; Panel mounting ▶ Locking of plug-in connection: Lateral locking lever



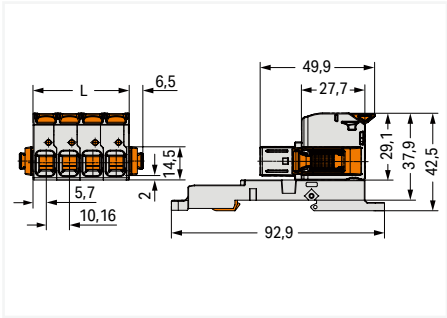
Insert solid conductors via push-in termination.

832-1104/037-000/306-000

Pole number	Item no.	PU
2	832-1102/037-000/306-000	5
3	832-1103/037-000/306-000	5
4	832-1104/037-000/306-000	5
5	832-1105/037-000/306-000	5
6	832-1106/037-000/306-000	5



Insert fine-stranded conductors – and remove all conductors – via operating tool.



L = (pole no. x pin spacing) + 1.3 mm

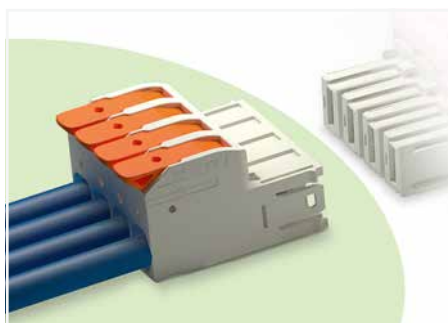
PU = packaging unit; SPU = subpackaging unit; Dimensions in mm

Variants:

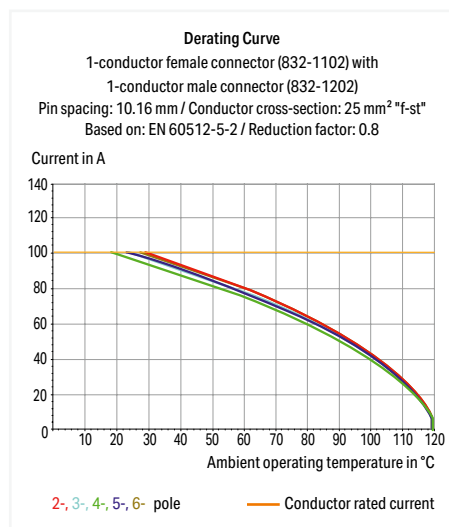
- Other pole numbers
- Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

1-conductor male connector ► MCS MAXI 16 ► 832 Series

Pin spacing: 10.16 mm / 0.4 inches ► Actuation type: Lever ► Push-in CAGE CLAMP® ► Conductor entry direction to mating direction: 0° ► Color: light gray



- Intuitive and tool-free lever actuation
- Universal connection for all conductor types
- Push-in termination of solid or ferruled conductors
- Test slot 0° and 90° to conductor entry
- 100% protected against mismatching
- Coding option available



Electrical data

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	1000 V	1000 V	1000 V
Rated surge voltage	8 kV	8 kV	8 kV
Rated current	76 A	76 A	76 A
Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	600 V	600 V	-
Rated current	66 A	66 A	-
Approvals per	UL 1977		
Rated voltage	600 V		
Rated current	85 A		
Approvals per	CSA		
Use group	B	C	D
Rated voltage	600 V	600 V	-
Rated current	66 A	66 A	-

Connection data

Connection technology	Push-in CAGE CLAMP®
Strip length	18 ... 20 mm / 0.71 ... 0.79 inches
Solid conductor	0.75 ... 16 mm ² / 18 ... 4 AWG
Fine-stranded conductor	0.75 ... 25 mm ² / 18 ... 4 AWG
Fine-stranded conductor; with insulated ferrule	0.75 ... 16 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.75 ... 16 mm ²

Material Data

Material group	I
Insulation material	Polybutylene terephthalate (PBT)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{cu})
Contact plating	Silver

Environmental requirements

Limit temperature range	-60 ... +120 °C
Processing temperature	-35 ... +60 °C

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.

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Ferrule	Page 871
Strain relief	Page 772
See technical section for further information	
Approvals and corresponding ratings, visit www.wago.com	

1-conductor male connector ▶ MCS MAXI 16 ▶ 832 Series

Pin spacing: 10.16 mm / 0.4 inches ▶ Actuation type: Lever ▶ Push-in CAGE CLAMP® ▶ Conductor entry direction to mating direction: 0 ° ▶ Color: light gray

Mounting type: DIN-35 rail; Panel mounting





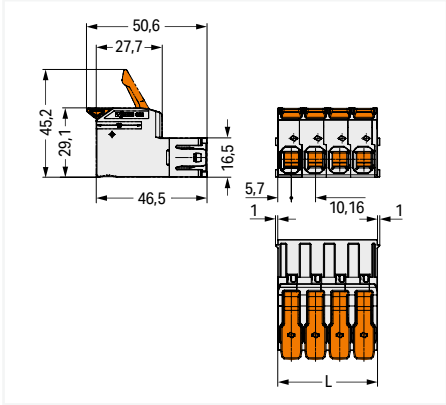


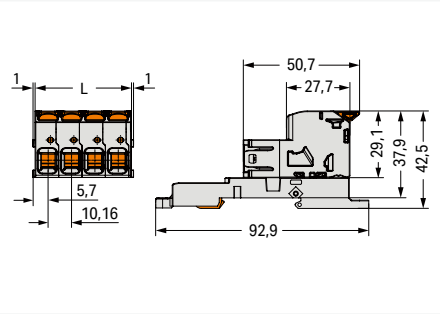
Insert solid conductors via push-in termination.



Insert fine-stranded conductors – and remove all conductors – via operating tool.

832-1204			832-1204/306-000		
Pole number	Item no.	PU	Pole number	Item no.	PU
2	832-1202	60	2	832-1202/306-000	10
3	832-1203	45	3	832-1203/306-000	5
4	832-1204	20	4	832-1204/306-000	5
5	832-1205	20	5	832-1205/306-000	5
6	832-1206	10	6	832-1206/306-000	5





$L = (\text{pole no.} \times \text{pin spacing}) + 1.3 \text{ mm}$

$L = (\text{pole no.} \times \text{pin spacing}) + 1.3 \text{ mm}$

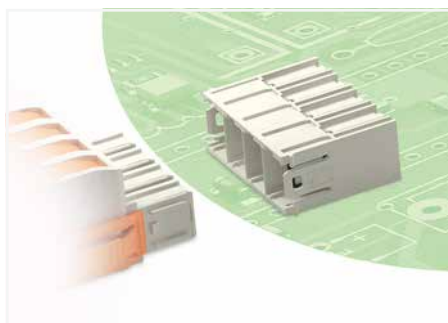
PU = packaging unit; SPU = subpackaging unit; Dimensions in mm

Variants:

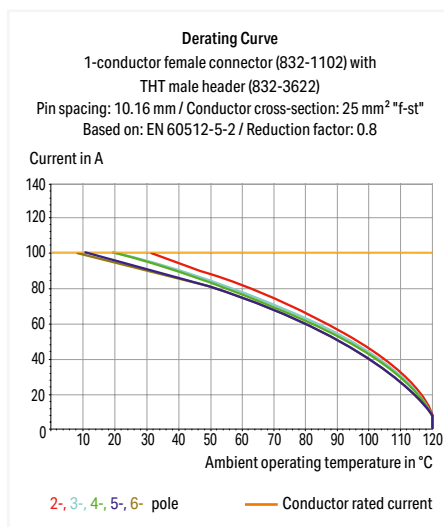
- Other pole numbers
- Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

THT male header ► MCS MAXI 16 ► 832 Series

Pin spacing: 10.16 mm / 0.4 inches ► Solder pin dimensions: 1.2 x 1.2 mm ► Color: light gray



- Male header may be mounted horizontally or vertically via straight or angled solder pins
- Three solder pins per pole provide high electrical and mechanical stability
- Mating face (IP2XB) with higher protection against accidental contact
- 100% protected against mismatching
- Coding via coding fingers



Electrical data

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	800 V	1000 V	1000 V
Rated surge voltage	8 kV	8 kV	8 kV
Rated current	76 A	76 A	76 A
Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	300 V	300 V	600 V
Rated current	66 A	66 A	5 A
Approvals per	UL 1977		
Rated voltage	600 V		
Rated current	85 A		
Approvals per	CSA		
Use group	B	C	D
Rated voltage	300 V	300 V	600 V
Rated current	66 A	66 A	5 A

Material Data

Material group	I
Insulation material	Polybutylene terephthalate (PBT)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{cu})
Contact plating	Silver

Mechanical Data

Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	3
Solder pin length	4 mm
Solder pin dimensions	1.2 x 1.2 mm
Drilled hole diameter with tolerance	1.7 (+0.1) mm

Environmental requirements

Limit temperature range	-60 ... +120 °C
Processing temperature	-35 ... +60 °C

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.

Coding Page 769

See technical section for further information

Approvals and corresponding ratings, visit www.wago.com

THT male header ▶ MCS MAXI 16 ▶ 832 Series

Pin spacing: 10.16 mm / 0.4 inches ▶ Solder pin dimensions: 1.2 x 1.2 mm ▶ Color: light gray

Mating direction to the PCB: 0 °

Mating direction to the PCB: 180 °

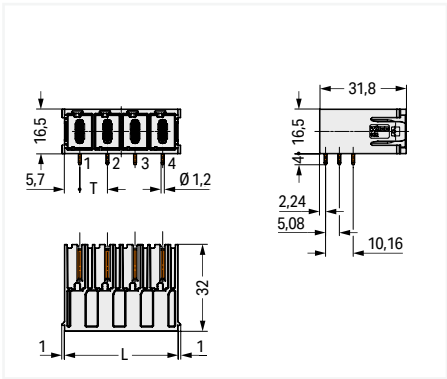
Mating direction to the PCB: 90 °



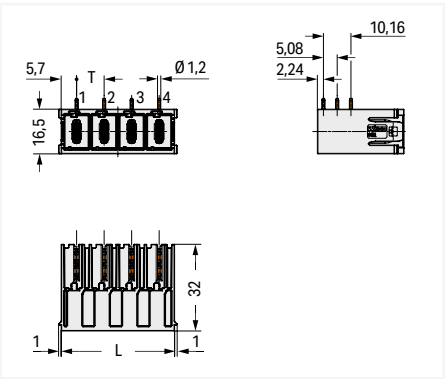
832-3624		
Pole number	Item no.	PU
2	832-3622	60
3	832-3623	45
4	832-3624	20
5	832-3625	20
6	832-3626	10

832-3644		
Pole number	Item no.	PU
2	832-3642	60
3	832-3643	45
4	832-3644	20
5	832-3645	20
6	832-3646	10

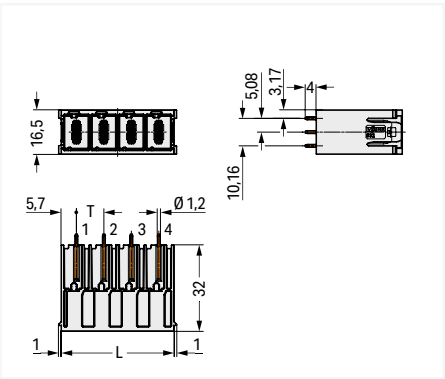
832-3604		
Pole number	Item no.	PU
2	832-3602	60
3	832-3603	45
4	832-3604	20
5	832-3605	20
6	832-3606	10



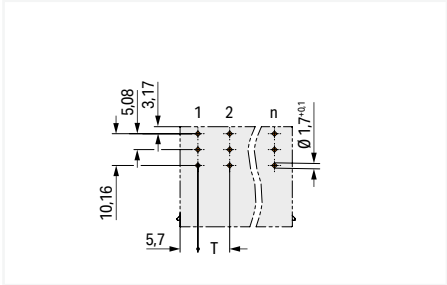
L = (pole no. x pin spacing) + 1.3 mm



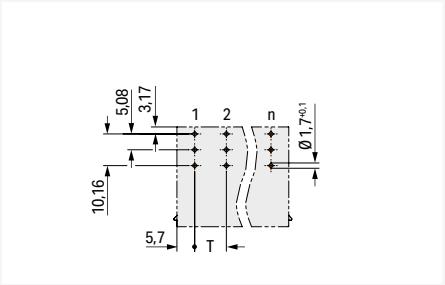
L = (pole no. x pin spacing) + 1.3 mm



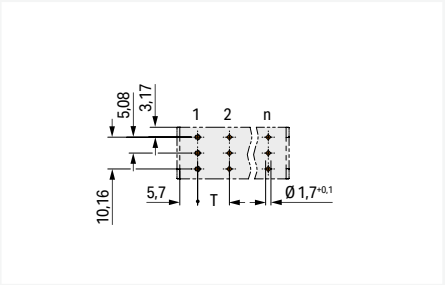
L = (pole no. x pin spacing) + 1.3 mm



L = (pole no. x pin spacing) + 1.3 mm



L = (pole no. x pin spacing) + 1.3 mm



PU = packaging unit; SPU = subpackaging unit; Dimensions in mm

Variants:

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

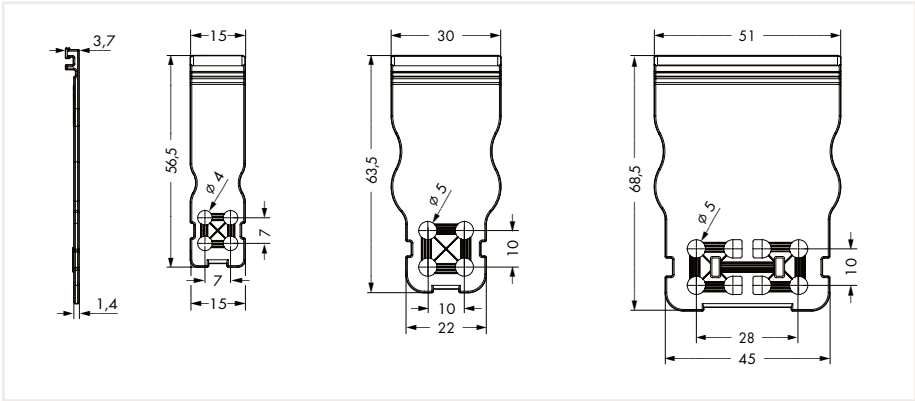
Strain Relief Plates and Coding Pins
MCS MAXI 6



Strain relief plate; for inserting; light gray			
Pole No.	Width	Item No.	PU
2 ... 3	15 mm	831-503	96 (24)
4 ... 6	30 mm	831-505	48 (24)
7 ... 9	51 mm	831-506	48 (24)

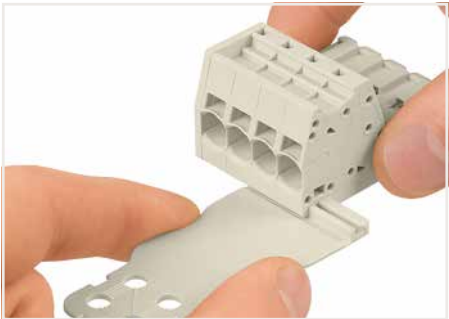
Strain relief plate; factory assembled; light gray		
Pole No.	Width	Item No. Suffix *
2 ... 3	15 mm	.../133-000
4 ... 6	30 mm	.../135-000
7 ... 9	51 mm	.../136-000

*An "item no. suffix," referring to the width of the strain relief plate, is added to the "basic item no." and determines the type of male or female connector.

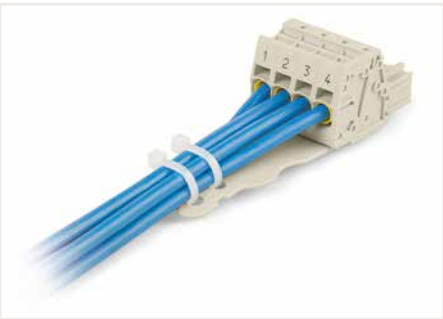


The arrangement of the attachments for cable ties allows single conductors or multi-core cables to be secured in different ways. The width of the cable ties must correspond to the hole dimensions of the strain relief plates shown above.

Cable ties and binding tools are not offered by WAGO.



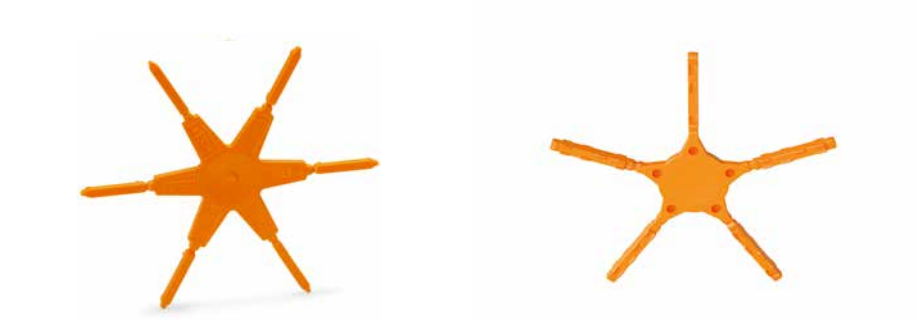
Strain relief plate for field assembly



Strain relief plate; pre-assembled; 1-conductor female connector; 4-pole; 7.62 mm pin spacing; light gray (831-3104/135-000)

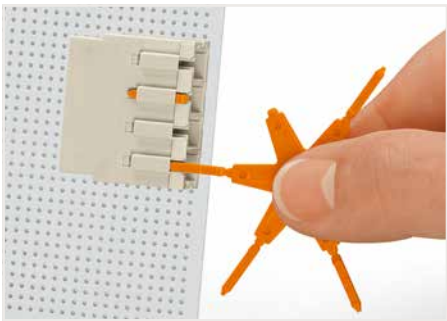
Coding Pins

MCS MAXI 6; MCS MAXI 16

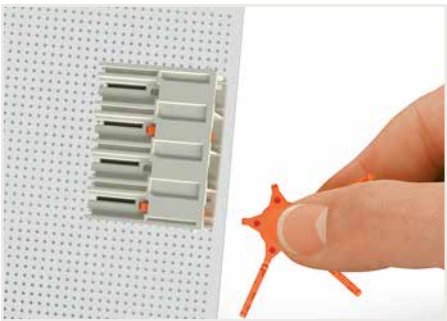


Coding pin carrier; with six coding pins; for THT male headers		
Color	Item No.	PU (SPU)
orange	831-500	100 (25)

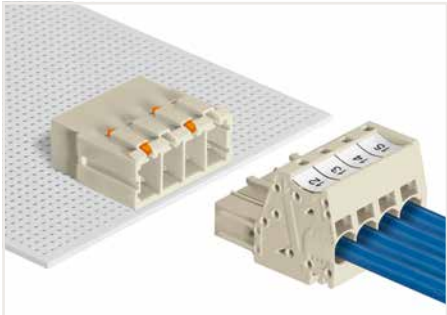
Coding pin carrier; with six coding pins; for male and female connectors MCS MAXI 16		
Color	Item No.	PU (SPU)
orange	832-500	100 (25)



Coding a THT male header by inserting a coding pin.

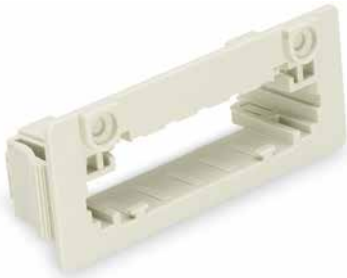


Coding a THT male header by inserting a coding pin.



Coded connectors

Snap-In Frames; Lockout Pins; Mounting Adapter MCS MAXI 6



Snap-in frame for MCS MAXI male connectors;
light gray

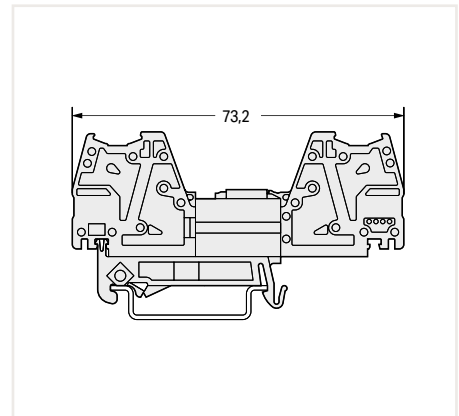
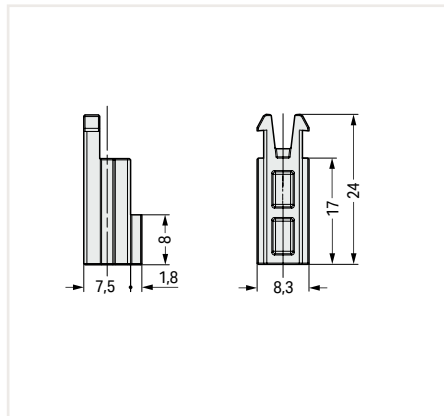
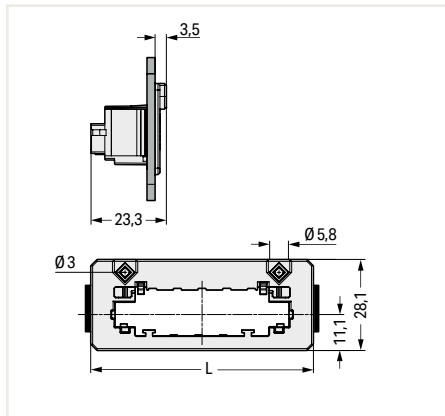
Pole No.	Width	Item-No.	PU
2	45.84 mm	831-302	48
3	53.46 mm	831-303	48
4	61.08 mm	831-304	24
5	68.7 mm	831-305	12

Lockout pins for snap-in frames

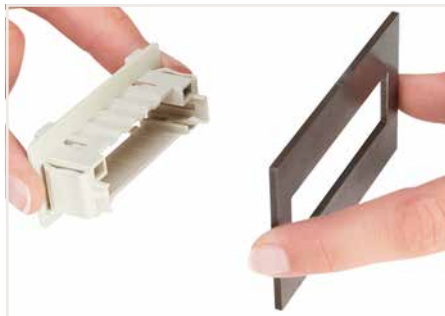
Color	Item-No.	PU
light gray	831-321	100

Mounting adapter for DIN-35 rail; for male connectors

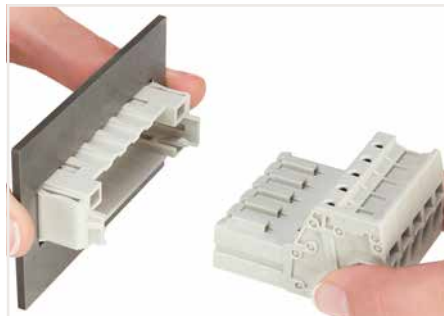
Color	Item-No.	PU
light gray	831-137	48



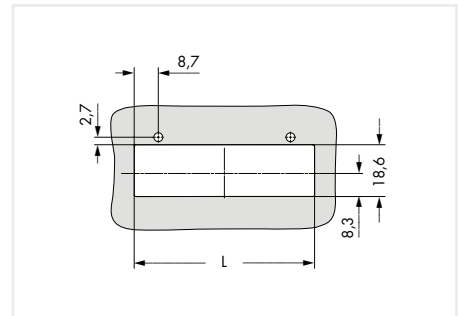
$L = (\text{pole no.} \times 7.62 \text{ mm}) + 30.6 \text{ mm}$



Insert the snap-in frame into the cutout.



Insert the male connector into the snap-in frame.



$L = (\text{pole no.} \times 7.62 \text{ mm}) + 26.8 \text{ mm}$
Panel cutout for snap-in frame



Inserting a female connector equipped with lateral locking levers.



Inserting a female connector without lateral locking levers – lockout pins are inserted on both sides of the snap-in frame.

- Snap-in frames for through-panel MCS MAXI 6 connectors
- Fast and easy installation – without tools
- Compatible with MCS MAXI 6 male and female connectors
- For panel thickness ranging
- Optional screw mounting

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

Marking Strips

MCS MAXI 6



Marking strip; 1 ... pole no.; for marking female connectors; perpendicular to conductor entry		
Pole No.	Item No.	PU
2	2009-110/762-802	100
3	2009-110/762-803	100
4	2009-110/762-804	100
5	2009-110/762-805	100
6	2009-110/762-806	100
7	2009-110/762-807	100
8	2009-110/762-808	100
9	2009-110/762-809	100

MCS MAXI male and female connectors can also be marked via Mini-WSB or WMB markers (see Section 12).

Marking strip; pole no. ... 1; for marking male connectors; perpendicular to conductor entry		
Pole No.	Item No.	PU
2	2009-110/762-852	50
3	2009-110/762-853	50
4	2009-110/762-854	50
5	2009-110/762-855	50
6	2009-110/762-856	50
7	2009-110/762-857	50
8	2009-110/762-858	50
9	2009-110/762-859	50

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

Available upon request (depending on quantity required):
Customized marking

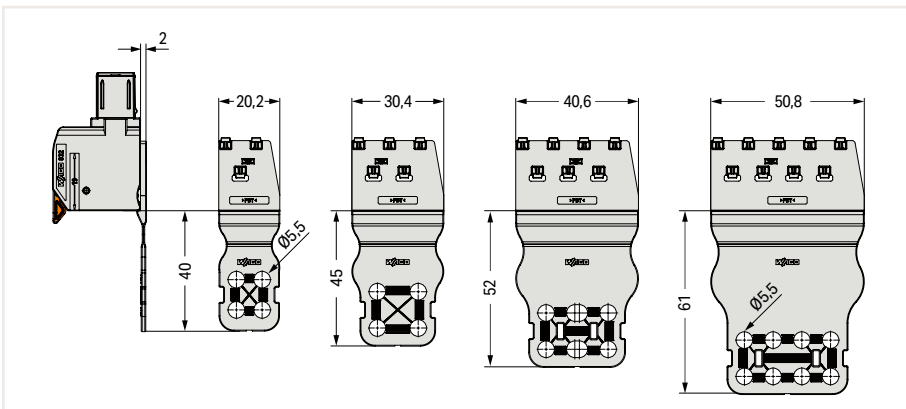
Strain Relief Plate ► for Male and Female Connectors with Push-in CAGE CLAMP® Connection ►

Color: light gray

MCS MAXI 16

**Strain relief plate ► for inserting**

Pol No.	Width	Item No.	PU
2	20,2 mm	832-532	60
3	30,4 mm	832-533	45
4	40,6 mm	832-534	40
5	50,8 mm	832-535	40



The arrangement of the attachments for cable ties allows single conductors or multi-core cables to be secured in different ways. The width of the cable ties must correspond to the hole dimensions of the strain relief plates shown above.

Cable ties and binding tools are not offered by WAGO.



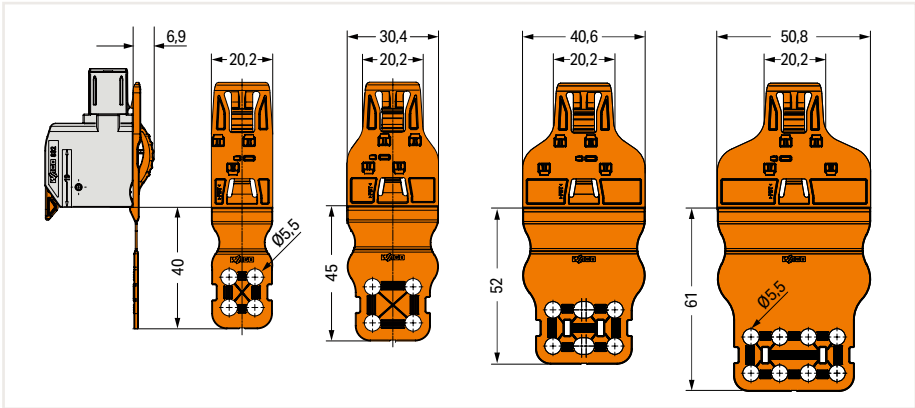
Strain relief plate for field assembly

Strain relief plate with locking lever ▶ Locking lever ▶ for Male and Female Connectors with Push-in CAGE CLAMP® Connection ▶ Color: orange
MCS MAXI 16



Strain relief plate ▶ for inserting ▶ with locking lever			
Pol No.	Width	Item No.	PU
2	20,2 mm	832-542	60
3	30,4 mm	832-543	45
4	40,6 mm	832-544	40
5	50,8 mm	832-545	40

Locking lever ▶ for inserting			
Pol No.	Width	Item No.	PU
2; 4; 6	20,2 mm	832-522	60
3; 5	20,2 mm	832-523	40



The arrangement of the attachments for cable ties allows single conductors or multi-core cables to be secured in different ways. The width of the cable ties must correspond to the hole dimensions of the strain relief plates shown above.

Cable ties and binding tools are not offered by WAGO.



Strain relief plate with locking lever for factory assembly

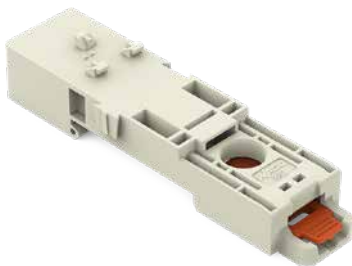
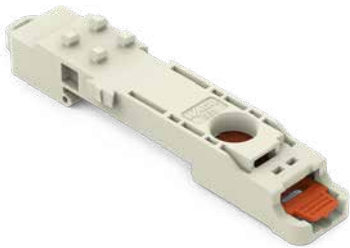


Locking lever for field assembly

Mounting Adapters ▶ for Male and Female Connectors with Push-in CAGE CLAMP® Connection

Color: light gray

MCS MAXI 6 and MCS MAXI 16

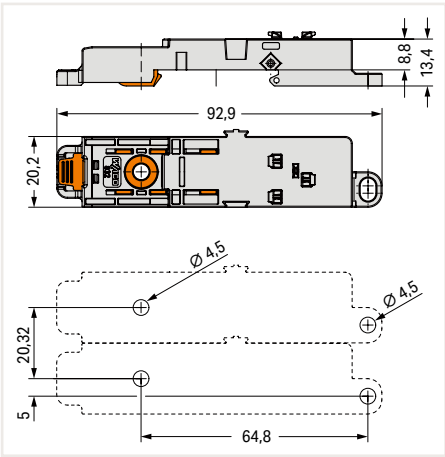
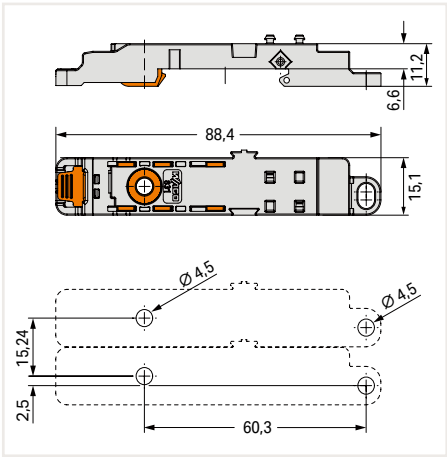


Mounting adapter ▶ for DIN-35 rail ▶ to snap on for MCS MAXI 6		
	Item number	PU
	831-1032	12

Mounting adapter ▶ for DIN-35 rail ▶ to snap on for MCS MAXI 16		
	Item number	PU
	832-1032	10

Mounting adapter ▶ for DIN-35 rail ▶ to snap on with locking plate for MCS MAXI 6		
	Item number	PU
	831-1038	12

Mounting adapter ▶ for DIN-35 rail ▶ to snap on with locking plate for MCS MAXI 16		
	Item number	PU
	832-1038	10



Direct Marking

MCS MAXI 6 and MCS MAXI 16



Direct marking of female connectors; parallel to conductor entry; 1 ... pole no.; item no. suffix.: /... - 9037	
Version	Item No. Example
1-conductor female connector; 6-pole; light gray	831-3106/000-9037
1-conductor female connector; with locking levers; 6-pole; light gray	831-3106/037-9037

Direct marking of male connectors; parallel to conductor entry; pole no. ... 1; item no. suffix.: /... - 9034	
Version	Item No. Example
1-conductor male connector; 6-pole; light gray	831-3206/000-9034
1-conductor male connector; for DIN-35 rail mounting; 6-pole; light gray	831-3206/007-9034

