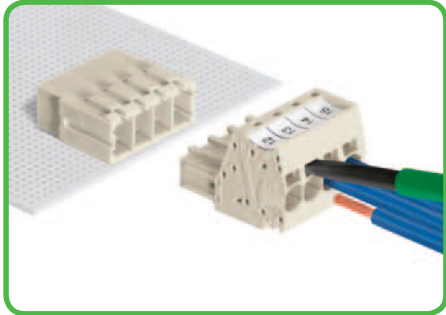
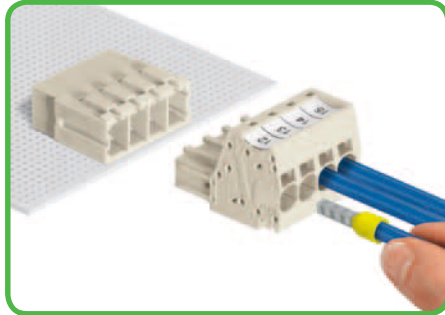


Description and Handling

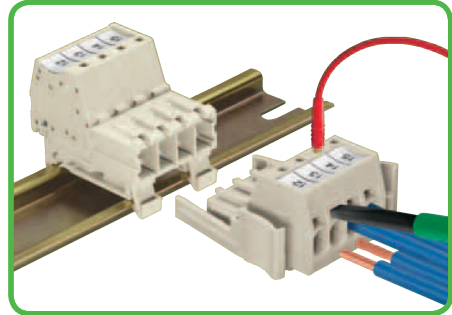
MCS - MULTI CONNECTION SYSTEM MAXI



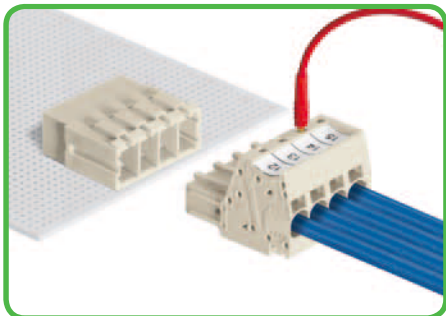
Inserting fine-stranded conductors via 5.5 x 0.8 mm screwdriver.



Inserting solid and ferruled conductors via push-in termination - no operating tool needed.



Male connector with CAGE CLAMP®S mounted on DIN 35-rail.



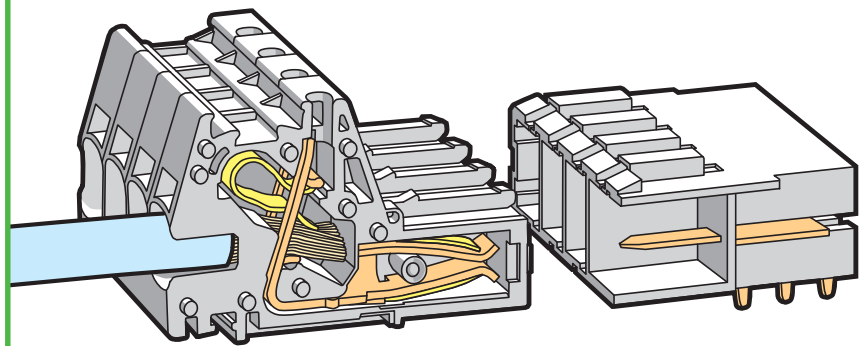
Testing with Ø 2 mm test plug.



Break or cut off coding pin from female connector . . .

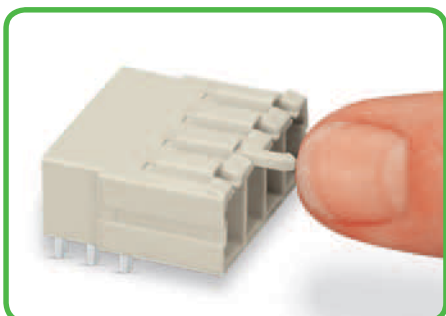
831 Series

100% protected against mismatching



MCS-MAXI

Pin spacing 7.62 mm



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



Marking via WMB or miniature WSB marker strips.



Marking via factory direct printing.

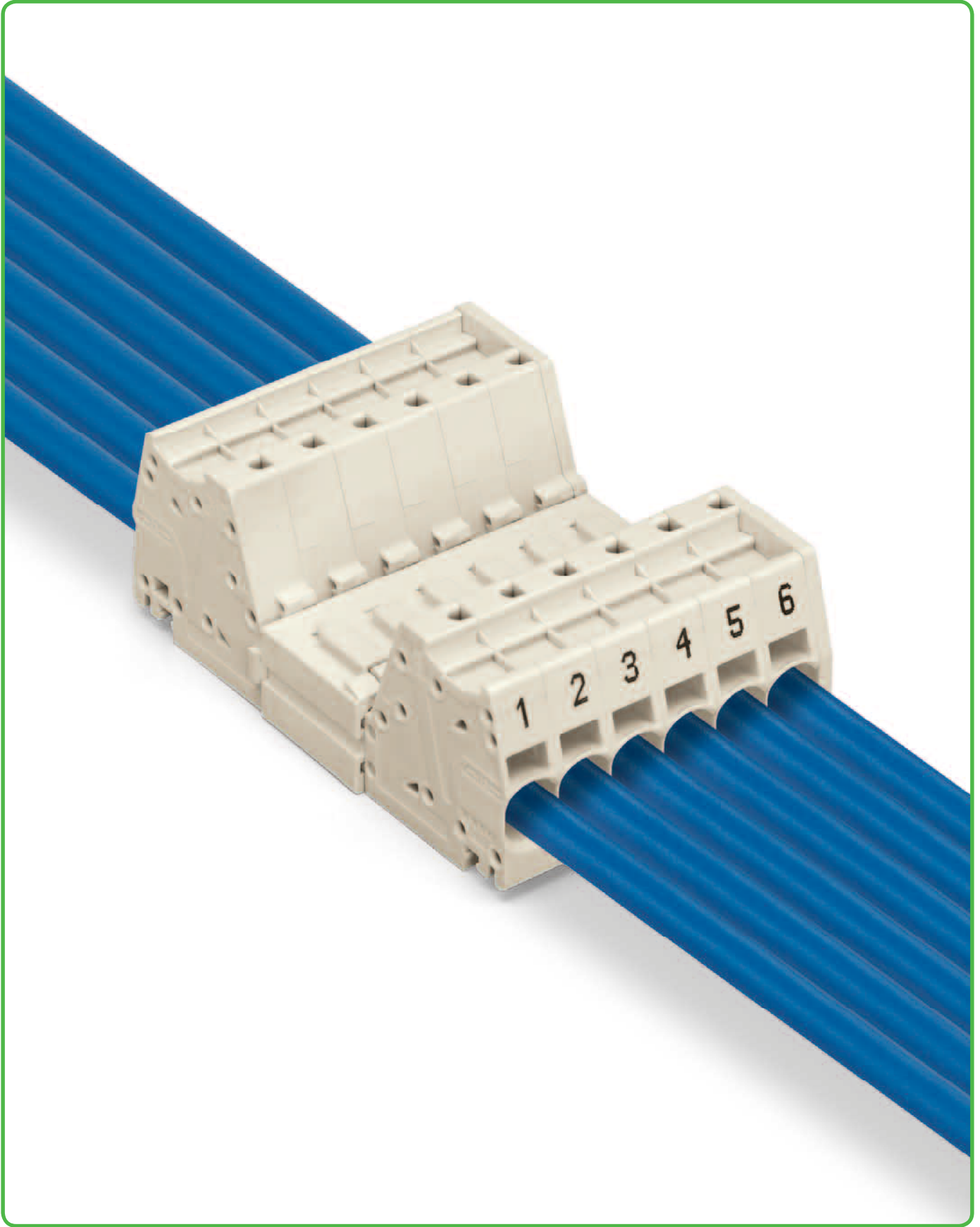
CAGE CLAMP®S clamps the following copper conductors:*

- solid

- stranded

- fine-stranded, also with tinned single strands

* For aluminum conductors, see notes in Section 11.



fine-stranded,
tip-bonded

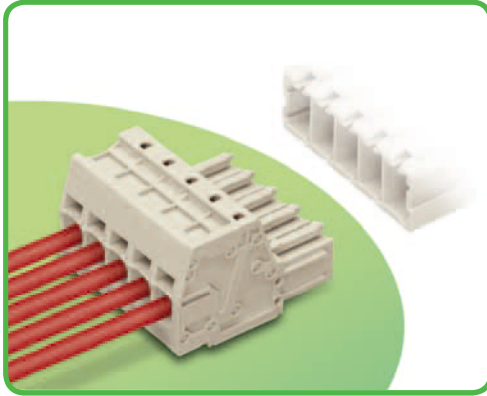


fine-stranded with
crimped ferrules
(gas-tight)



fine-stranded with
crimped pin terminal
(gas-tight)

Female Connectors Pin Spacing 7.62 mm MCS-MAXI



- Universal connection for all conductor types
- Simple, push-in terminations of solid and ferruled conductors
- Integrated test ports for Ø 2 mm test plugs
- 600 V to UL 1059
- 100% protected against mismatching
- With coding pins

Technical data:

Pin Spacing	7.62 mm 0.3 in		
Rating per	IEC/EN 60664-1		
Overtoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	800 V	1000 V	1000 V
Rated surge voltage	8 kV	8 kV	8 kV
Nominal current	41 A	41 A	41 A
Approvals per	UL/CSA		
Use group UL 1059	B	C	D
Rated voltage	-	600 V	-
Nominal current UL	-	42 A	-
Nominal current CSA	-	50 A	-

Conductor data:

Connection technology	CAGE CLAMP®S
Conductor size: solid	0.5 - 10 mm ²
Conductor size: fine-stranded	0.5 - 10 mm ²
Conductor size: fine-stranded	0.5 - 6.0 mm ² (with insulated ferrule)
Conductor size: fine-stranded	0.5 - 6.0 mm ² (with uninsulated ferrule)
AWG	20 - 8
Strip length	13 - 15 mm / 0.52 - 0.58 in

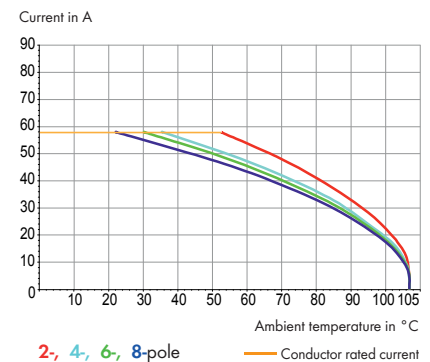
Material data:

Material group	I
Insulating material	Nylon 6.6 (PA 6.6)
Flammability rating per UL 94	V0
Lower/Upper temperature limit	-60°C / +105°C
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{cu})
Contact plating	tin-plated
Additional springs for socket contact	Chrome-nickel spring steel (CrNi)

MCS - MULTI CONNECTION SYSTEM includes connectors **without** breaking capacity in accordance with IEC 61984. When used as intended, these connectors shall not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live in unmated condition.

Derating Curve

831-3102 female connector with 831-3622 male header
Pin spacing: 7.62 mm / Conductor size: 10 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 0.8



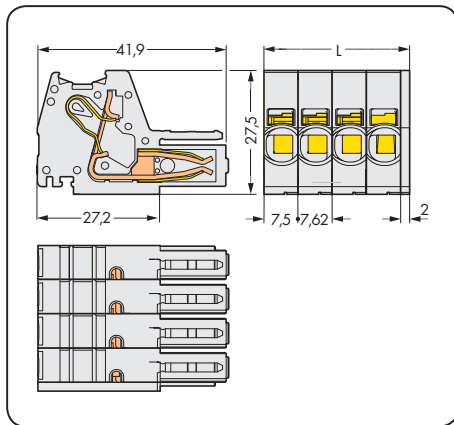
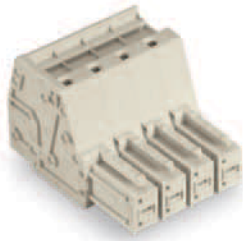
MCS-MAXI accessories:

Page:

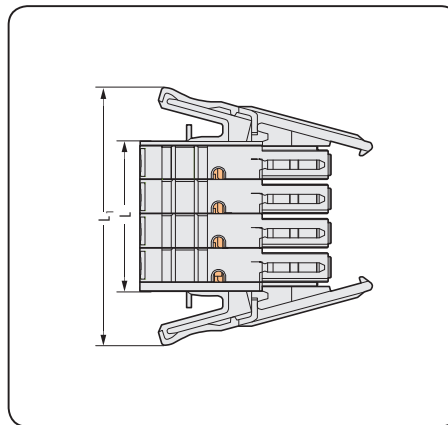
Marking accessories	540 - 543
Operating tool	526 - 528
Direct marking	493
Test plug, Ø 2 mm	538

Female Connectors MCS-MAXI

Pin spacing 7.62 mm / 0.3 in 0.5 – 10 mm ² AWG 20 – 8 1000 V/ 8 kV/2 41 A 600 V/42 A		With locking levers Pin spacing 7.62 mm / 0.3 in 0.5 – 10 mm ² AWG 20 – 8 1000 V/ 8 kV/2 41 A 600 V/42 A		Pole marking 1 – pole no. of female connectors for conductor termination
--	--	--	--	---



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



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

$$L_1 = L + 23.7 \text{ mm}$$

Pole Marking Perpendicular to Conductor Entry

MCS-MAXI female connectors can be marked via miniature WSB or WMB markers (Section 10), or via marker strips. Other custom marking options are available upon request.

Pole No.	Item No.	Pack. Unit
Marker strips, 1 – pole no.		
2	2009-110/762-802	50
3	2009-110/762-803	50
4	2009-110/762-804	50
5	2009-110/762-805	50
6	2009-110/762-806	50
7	2009-110/762-807	50
8	2009-110/762-808	50

Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Female connector, light gray			Female connector with locking levers, light gray		
2	831-3102	48	2	831-3102/037-000	24
3	831-3103	48	3	831-3103/037-000	24
4	831-3104	24	4	831-3104/037-000	12
5	831-3105	24	5	831-3105/037-000	12
6	831-3106	24	6	831-3106/037-000	12
7	831-3107	12	7	831-3107/037-000	12
8	831-3108	12	8	831-3108/037-000	12
9	831-3109	12	9	831-3109/037-000	12



Marking Parallel to Conductor Entry

Item No. Suffix: /... - 9037

Ordering examples:

Female connector,
7.62 mm pin spacing, 6-pole, light gray
831-3106/000-9037

Female connector with locking levers,
7.62 mm pin spacing, 6-pole, light gray
831-3106/037-9037