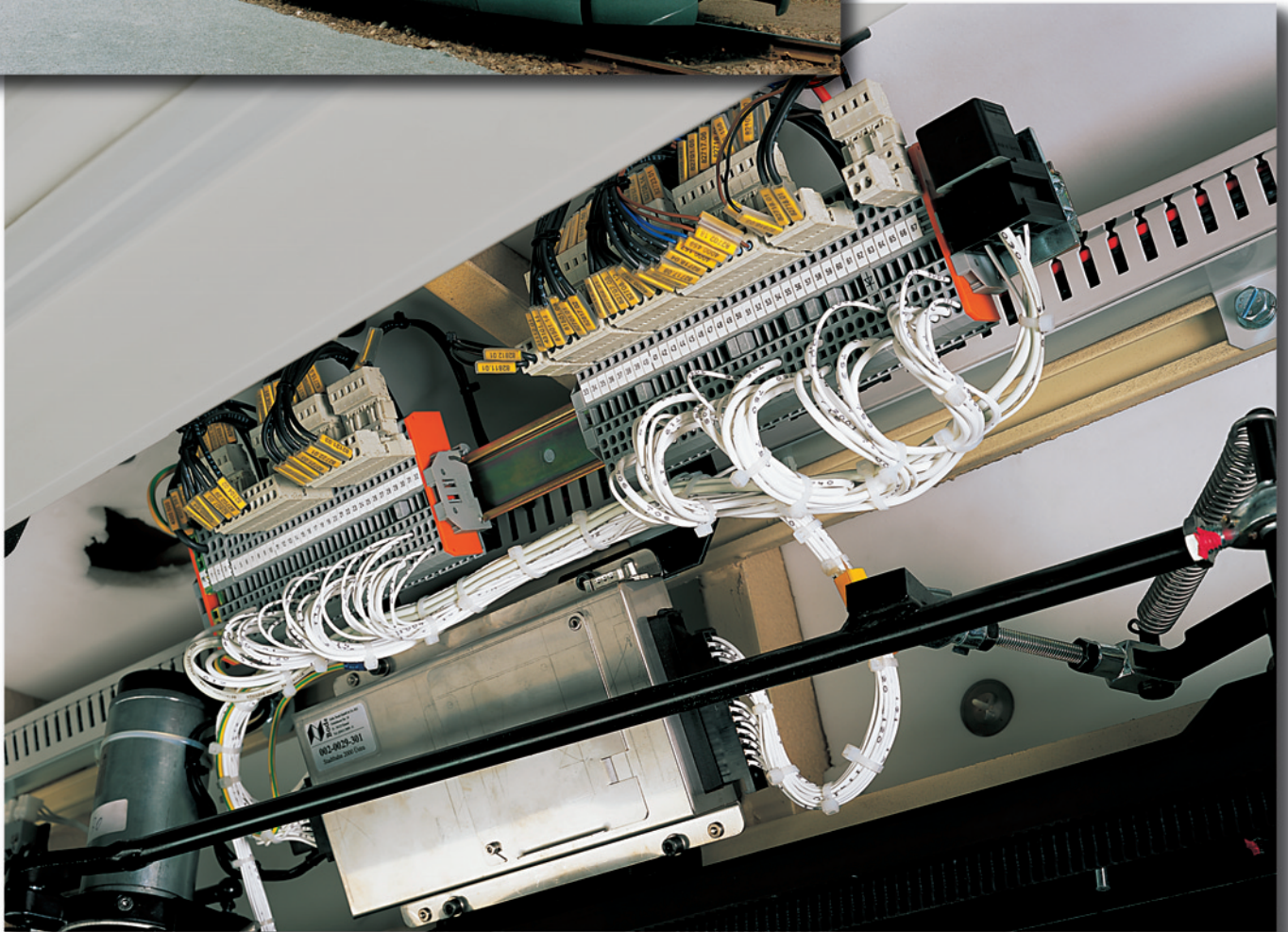




Easy to service:
Pluggable wiring of functional units using the
WAGO MULTI CONNECTION SYSTEM with
WAGO front-entry rail-mounted terminal blocks in
the door control system of an urban railway train.



MULTI CONNECTION SYSTEM **MIDI**

100 % protected against mismatching

	Pin spacings	
	5 mm/ 0.197 in	7.5 mm/ 0.295 in
Angled female connectors with CAGE CLAMP® connection _____	6.14	
– and fixing flanges _____	6.15	6.27
Female connectors for rail-mounted terminal blocks _____	6.17	
Female connectors with CAGE CLAMP® connection _____	6.12 – 6.13	6.24 – 6.25
Female connectors with CAGE CLAMP®S connection _____	6.9	6.26
Female connectors with solder pins _____	6.10 – 6.11	6.22 – 6.23
Headers for Press In technique _____	6.7	
Headers for rail-mounted terminal blocks _____	6.16	
Headers with solder pins _____	6.6 – 6.7	6.18 – 6.19
Male connectors with CAGE CLAMP® connection _____	6.8	6.20
Accessories		
Comp type jumper bar _____	7.64	
Lockout caps _____	7.64	
Multi mounting adapter _____	7.65	
Operating tool and lever _____	7.64	
Test plugs _____	7.65	
Strain relief housings _____	7.62	7.63
Strain relief plates _____	7.61	
Current-carrying capacity curves _____	7.67	

Order form for headers/male connectors and female connectors
contact factory

For packing-units, please see price list

Note: Connectors for higher currents and voltages
Pin spacing 5 mm/0.197 in
See X-COM®-SYSTEM, Full Line Catalog W4 Volume 1 – Section 9

MULTI CONNECTION SYSTEM **MIDI**, 100 % protected against mismatching

– Product Summary –

Headers with solder pins



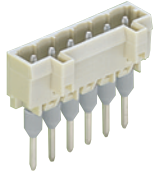
mm / in	5 / 0.197	7.5 / 0.295
Page	6.6 – 6.7	6.18 – 6.19

Headers for Press In technique



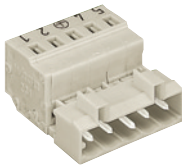
mm / in	5 / 0.197
Page	6.7

Headers with long contact pins



mm / in	5 / 0.197
Page	6.16

Male connectors with CAGE CLAMP®
0.08 mm² – 2.5 mm²/AWG 28 – 12

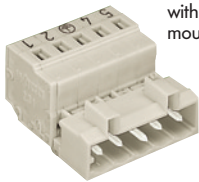


mm / in	5 / 0.197	7.5 / 0.295
Page	6.8	6.20



with fixing flanges

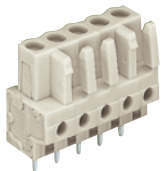
mm / in	5 / 0.197	7.5 / 0.295
Page	6.8	6.20



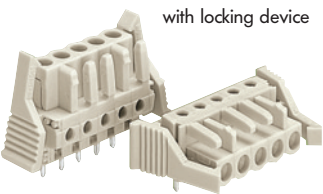
with snap-in mounting feet

mm	5	7.5
Page	6.8	6.20

Female connectors with solder pins

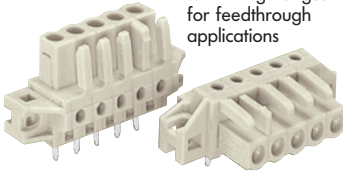


mm / in	5 / 0.197	7.5 / 0.295
Page	6.10	6.22



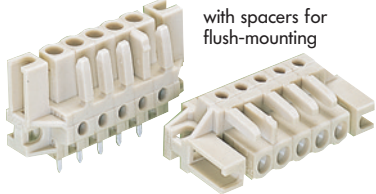
with locking device

mm / in	5 / 0.197	7.5 / 0.295
Page	6.10	6.22



with fixing flanges for feedthrough applications

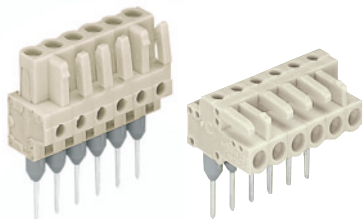
mm / in	5 / 0.197	7.5 / 0.295
Page	6.11	6.23



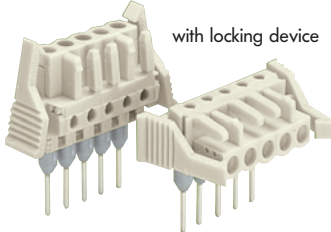
with spacers for flush-mounting

mm / in	5 / 0.197	7.5 / 0.295
Page	6.11	6.23

Female connectors with long contact pins



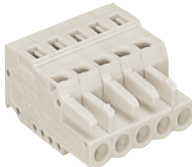
mm / in	5 / 0.197
Page	6.17



with locking device

mm / in	5 / 0.197
Page	6.17

Female connectors with CAGE CLAMP®
0.08 mm² – 2.5 mm²/AWG 28 – 12



mm / in	5 / 0.197	7.5 / 0.295
Page	6.12	6.24



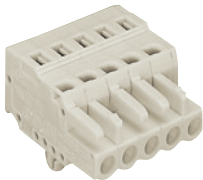
with locking device

mm / in	5 / 0.197	7.5 / 0.295
Page	6.12	6.24



with fixing flanges for feedthrough applications

mm / in	5 / 0.197	7.5 / 0.295
Page	6.12 – 6.13	6.24 – 6.25



with spacers for flush-mounting

mm / in	5 / 0.197	7.5 / 0.295
Page	6.13	6.25

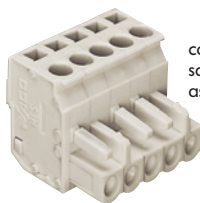
Angled female connectors with CAGE CLAMP®

0.08 mm² – 2.5 mm²/AWG 28 – 12

for panel mounting



mm/	5/	7.5/
in	0.197	0.295
Page	6.15	6.27

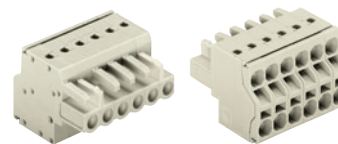


conductor exit
same direction
as latches

mm/	5/
in	0.197
Page	6.14

2-conductor-female connector with CAGE CLAMP®S connection

0.2 mm² – 2.5 mm²/AWG 24 – 12



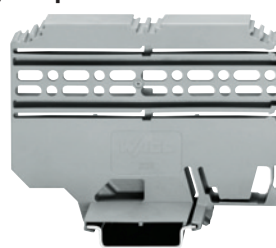
mm/	5/	7.5/
in	0.197	0.295
Page	6.9	6.26

Strain relief plates



Width
11.5 mm; 20 mm; 30 mm; 50 mm
Section 7, Page 7.61

Multi mounting adapter

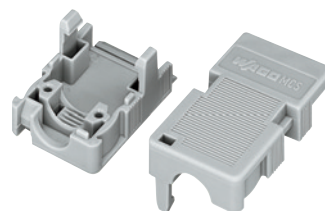


Section 7, Page 7.65

Snap-on type strain relief housings



for pin spacing
5 mm/0.197 in
Section 7, Page 7.62



for pin spacing
7.5 mm/0.295 in
Section 7, Page 7.63

Operating tool and lever



Section 7, Page 7.64



Lockout caps



Section 7, Page 7.64

Comb type jumper bar



for pin spacing
5 mm/0.197 in
Section 7, Page 7.64

Test plug with CAGE CLAMP®

0.08 mm² – 2.5 mm²/AWG 28 – 12



for pin spacing
5 mm/0.197 in
Section 7, Page 7.65

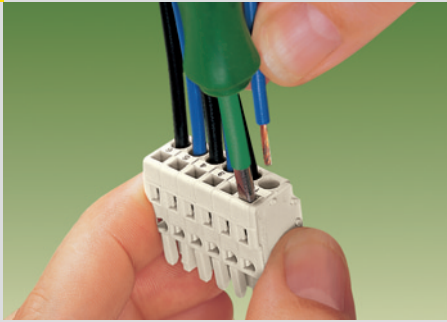


for pin spacing
7.5 mm/0.295 in
Section 7, Page 7.65

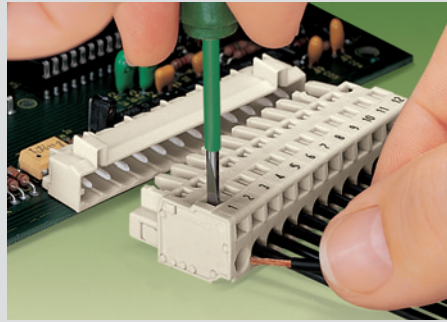
6 MULTI CONNECTION SYSTEM **MIDI** . . .

4

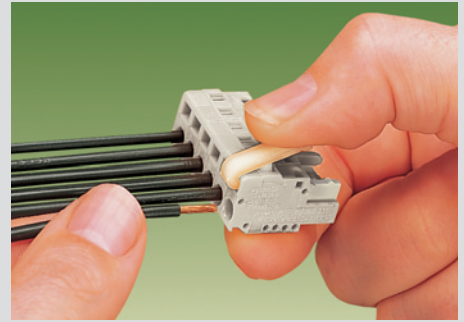
CAGE CLAMP® Connection



Connection of conductors with screwdriver 3.5 mm
Operation of CAGE CLAMP® and conductor entry
from the same side

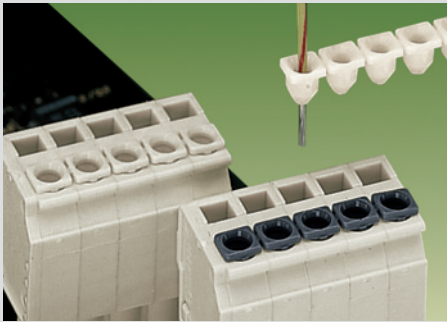


Connection of conductors with screwdriver 3.5 mm
Operation of CAGE CLAMP® and conductor entry
at right angles



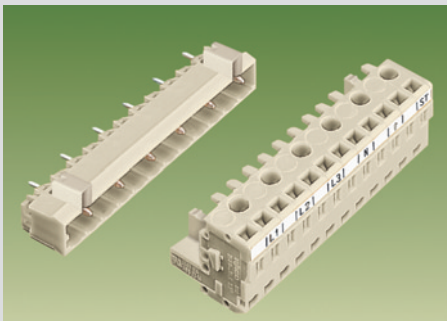
Connection of conductors – side-entry wiring
with snap-on lever. Item no. 231-131

Insulation stop

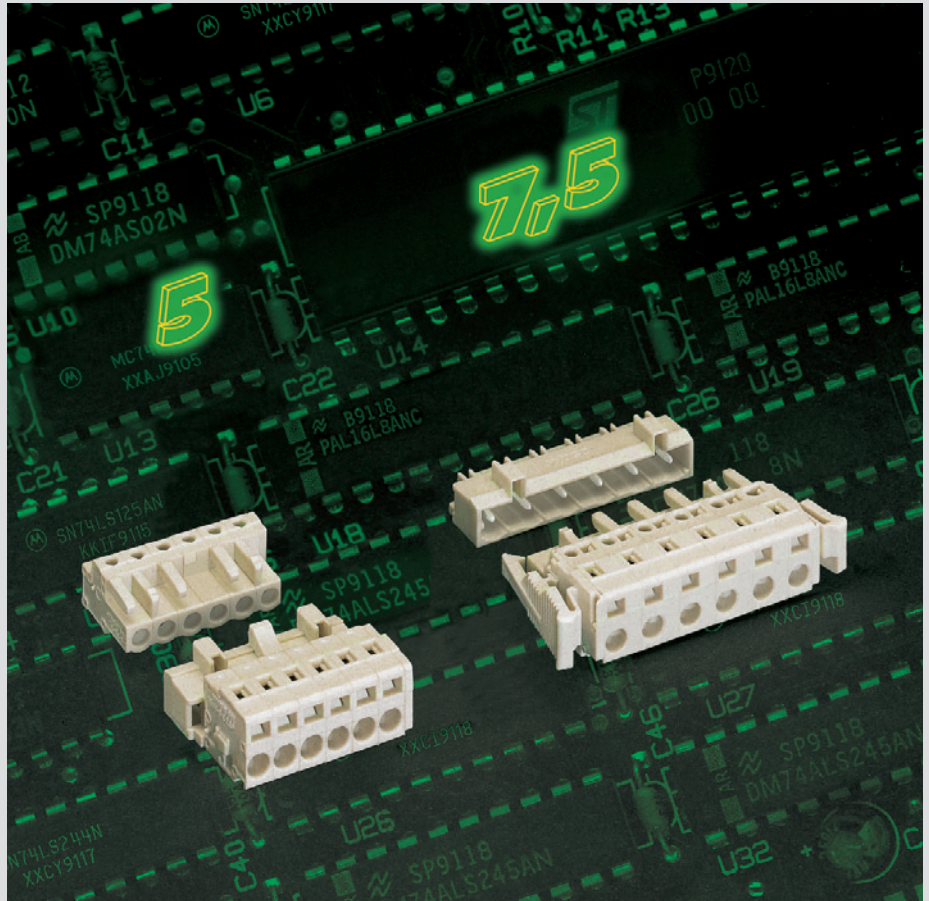


Insulation stop

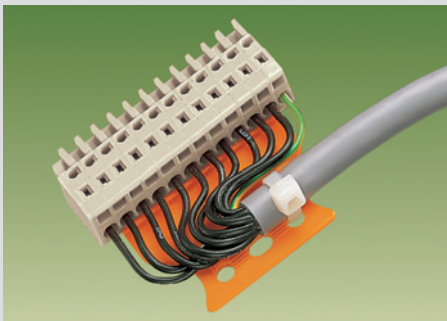
Pin spacing 10 mm/0.394 in



Pin spacing 10 mm/0.394 in,
contact factory



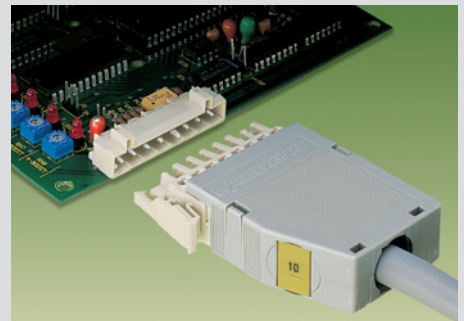
Strain relief plates and housings



Female connector with strain relief plate,
see section 7, page 7.61



Strain relief housing, shown with a header,
see section 7, pages 7.62 and 7.63

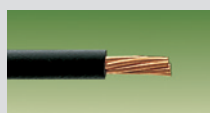


Strain relief housing, shown with a female
connector with locking device



CAGE CLAMP®
connects the following
copper wires: *

solid



stranded

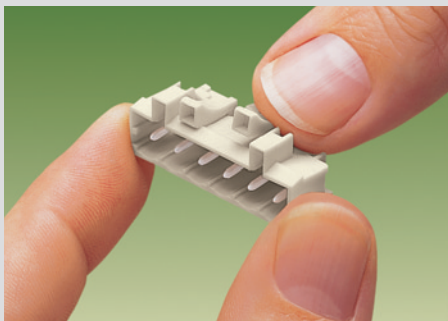


fine stranded,
also with tinned
single strands

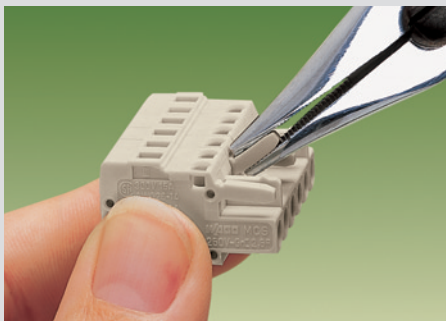
* For aluminum wire see notes in section 12!

... Description and Handling

Coding

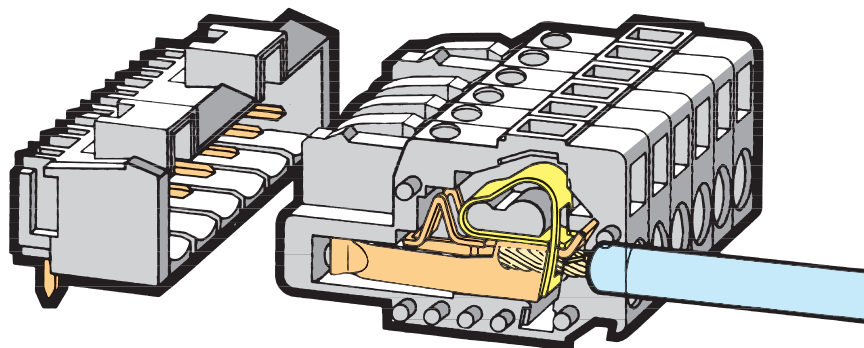


Coding of a header –
fit coding key(s)



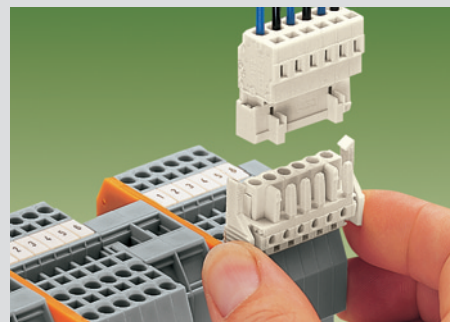
Coding of a female connector –
remove coding finger(s)

100 % protected against mismatching



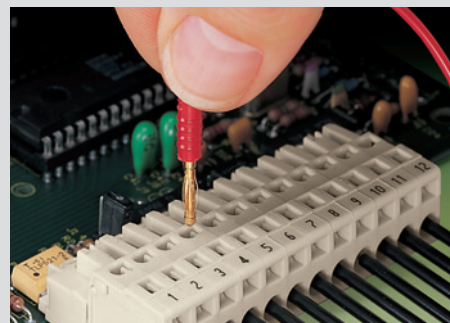
MIDI Pin spacings 5 mm/0.197 in and
7.5 mm/0.295 in, series 721, 722, 723

Locking device



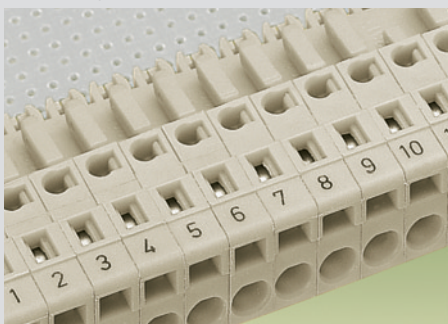
Locking devices prevent the connector from
disconnecting when pull forces are being exerted
on the conductors

Testing

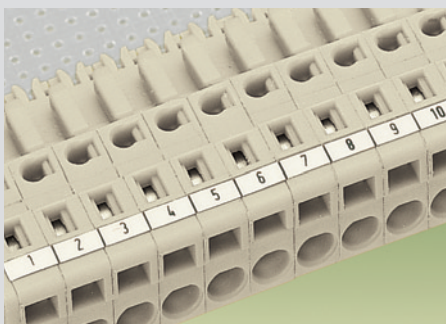


Testing with test plug 2 mm Ø or 2.3 mm Ø

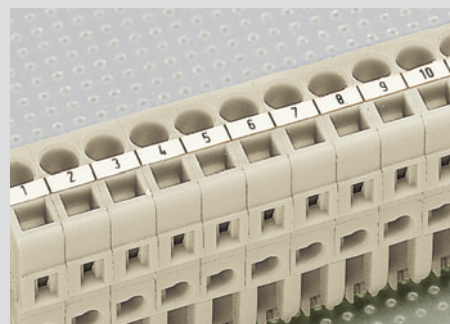
Marking



Marking by direct printing,
customized printing upon request



Marking with self-adhesive marker strips –
side-entry



Marking with self-adhesive marker strips –
front-entry



fine-stranded wire –
tip bonded



fine-stranded wire
with crimped ferrule ①

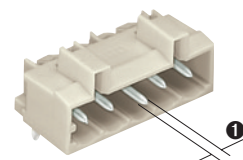


fine-stranded wire
with crimped pin terminal

① When using ferrules, the max. conductor cross section which can be accommodated is one size smaller than max. rating of terminal block.

6 Pin Spacing 5 mm / 0.197 in

*

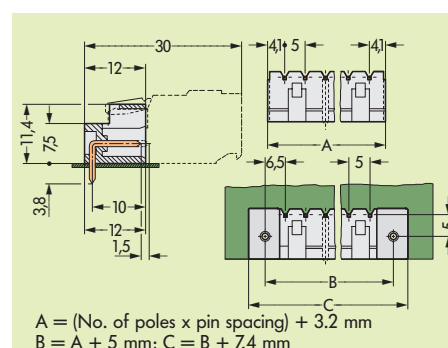
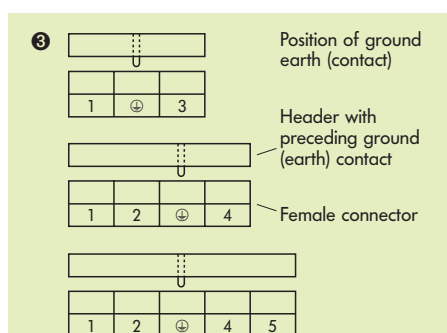
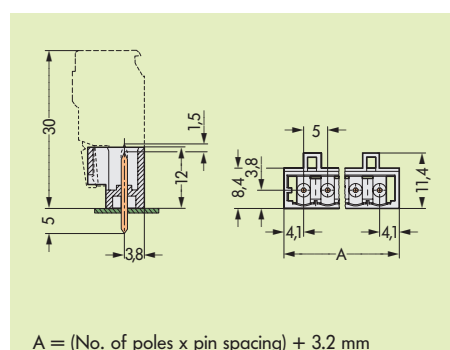


No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.
Headers with solder pins, 100 % protected against mismatching, light grey, straight solder pin 1 mm x 1 mm ❶			Headers with solder pins, 100 % protected against mismatching, light grey, straight solder pin 1.2 mm x 1.2 mm ❷			Headers with solder pins, 100 % protected against mismatching, light grey, right solder pin 1 mm x 1 mm ❶		
without		with	without		with	without		with
preceding ground (earth) contact			preceding ground (earth) contact			preceding ground (earth) contact		
2	721-132/001-000		2	721-162/001-000		2	721-432/001-000	
3	721-133/001-000	721-133/001-040 ❸	3	721-163/001-000	721-163/001-040 ❸	3	721-433/001-000	721-433/001-040 ❸
4	721-134/001-000	721-134/001-040 ❸	4	721-164/001-000	721-164/001-040 ❸	4	721-434/001-000	721-434/001-040 ❸
5	721-135/001-000	721-135/001-040 ❸	5	721-165/001-000	721-165/001-040 ❸	5	721-435/001-000	721-435/001-040 ❸
6	721-136/001-000		6	721-166/001-000		6	721-436/001-000	
7	721-137/001-000		7	721-167/001-000		7	721-437/001-000	
8	721-138/001-000		8	721-168/001-000		8	721-438/001-000	
9	721-139/001-000		9	721-169/001-000		9	721-439/001-000	
10	721-140/001-000		10	721-170/001-000		10	721-440/001-000	
12	721-142/001-000		12	721-172/001-000		12	721-442/001-000	
14	721-144/001-000		14	721-174/001-000		14	721-444/001-000	
16	721-146/001-000		16	721-176/001-000		16	721-446/001-000	
20	721-150/001-000		20	721-180/001-000		20	721-450/001-000	

Accessories

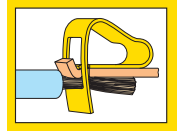
	Coding key, snap-on type, light grey 231-129		Coding key, snap-on type, light grey 231-129		Coding key, snap-on type, light grey 231-129
					Fixing element, horizontal, grey 231-193
					Screw M 2 x 12 with nut 231-195
					for fixing element
					Tapping screw, B 2.2 x 13 231-194
					fixing hole Ø 1.8 mm

Dimensions (in mm) Diameter of drilled hole: $1.4^{+0.1}$ mm (solder pin 1 mm x 1 mm); $1.7^{+0.1}$ mm (solder pin 1.2 mm x 1.2 mm)



* Approvals with corresponding ratings see pages 12.3 ff.

④ for more technical data see section 12, approvals

MULTI CONNECTION SYSTEM **MIDI****Male Connectors with CAGE CLAMP®**,**100 % Protected against Mismatching**, Pin Spacing 5 mm / 0.197 in

Pin spacing 5 mm/0.197 in, light grey
0.08 – 2.5 mm² | AWG 28 – 12
250 V/4 kV/3 | 300 V, 15 A
12 A | 300 V, 15 A

8 – 9 mm / 0.33 in

* VDE CCA GL BV LR NV ABS

Pin spacing 5 mm/0.197 in, light grey
0.08 – 2.5 mm² | AWG 28 – 12
250 V/4 kV/3 | 300 V, 15 A
12 A | 300 V, 15 A

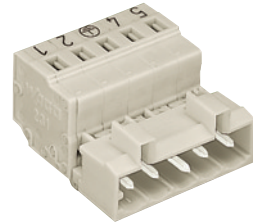
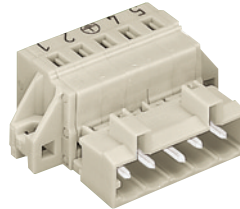
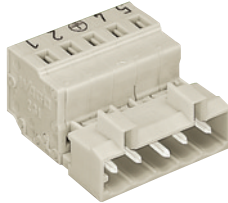
8 – 9 mm / 0.33 in

* VDE CCA GL BV LR NV ABS

Pin spacing 5 mm/0.197 in, light grey
0.08 – 2.5 mm² | AWG 28 – 12
250 V/4 kV/3 | 300 V, 15 A
12 A | 300 V, 15 A

8 – 9 mm / 0.33 in

* VDE CCA GL BV LR NV ABS

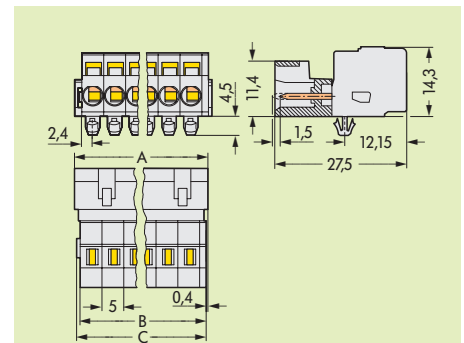
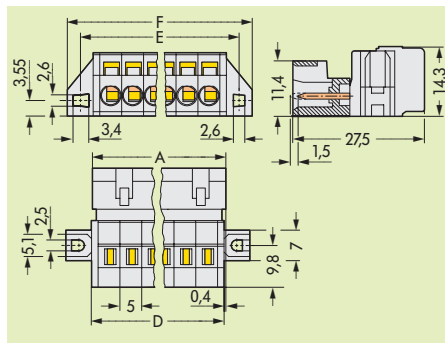
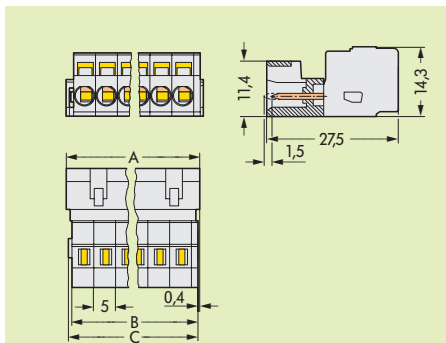


No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.
Male connectors with CAGE CLAMP®, 100 % protected against mismatching, light grey			Male con. w. CAGE CLAMP® and fixing flanges, 100 % prot. against mismatching, light grey, for screw fixing or similar methods, for vertical or horizontal fixing			Male con. w. CAGE CLAMP® and snap-in mount. feet, 100 % prot. against mismatching, light grey, for plate thickness 0.6 mm–1.2 mm, fixing hole Ø 3.5 mm (w. mount. adapter 209-137 for DIN 35 rail)		
	without	with		without	with		without	with
		preceding ground (earth) contact			preceding ground (earth) contact			preceding ground (earth) contact
2	721-602		2	721-602/019-000		2	721-602/018-000	
3	721-603	721-603/000-042	3	721-603/019-000	721-603/019-042	3	721-603/018-000	721-603/018-042
4	721-604	721-604/000-042	4	721-604/019-000	721-604/019-042	4	721-604/018-000	721-604/018-042
5	721-605	721-605/000-042	5	721-605/019-000	721-605/019-042	5	721-605/018-000	721-605/018-042
:	:		:	:		:	:	
10	721-610		10	721-610/019-000		10	721-610/018-000	
12	721-612		12	721-612/019-000		12	721-612/018-000	
14	721-614		14	721-614/019-000		14	721-614/018-000	
16	721-616		16	721-616/019-000		16	721-616/018-000	
20	721-620		20	721-620/019-000		20	721-620/018-000	
3- to 5-pole male connectors w. preceding grd. (e.) contact are marked with a special printing, for ex. 3 1			3- to 5-pole male connectors w. preceding grd. (e.) contact are marked with a special printing, for ex. 3 1			3- to 5-pole male connectors w. preceding grd. (e.) contact are marked with a special printing, for ex. 3 1		

Accessories

	Coding key, snap-on type, light grey 231-129		Coding key, snap-on type, light grey 231-129		Coding key, snap-on type, light grey 231-129
	Insulation stop, 5 pcs/strip 0.08–0.2 mm ² (white) 231-670 0.25–0.5 mm ² (light gr.) 231-671 0.75–1 mm ² (dark grey) 231-672 0.2 mm ² solid/0.14 mm ² f-st		Insulation stop, 5 pcs/strip 0.08–0.2 mm ² (white) 231-670 0.25–0.5 mm ² (light gr.) 231-671 0.75–1 mm ² (dark grey) 231-672 0.2 mm ² solid/0.14 mm ² f-st		Insulation stop, 5 pcs/strip 0.08–0.2 mm ² (white) 231-670 0.25–0.5 mm ² (light gr.) 231-671 0.75–1 mm ² (dark grey) 231-672 0.2 mm ² solid/0.14 mm ² f-st
	Marker strips, self-adhesive 1–12 (300 x) 210-331/0500-0103 13–24 (300 x) 210-331/0500-0104		Tapping screw, B 2.2 x 9.5 209-147 fixing hole Ø 1.8 mm		Mounting adapter, for DIN 35 rail, grey 209-137 3 or more poles
			Marker strips, self-adhesive 1–12 (300 x) 210-331/0500-0103 13–24 (300 x) 210-331/0500-0104		Marker strips, self-adhesive 1–12 (300 x) 210-331/0500-0103 13–24 (300 x) 210-331/0500-0104

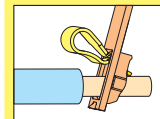
Dimensions (in mm) A = (No. of poles x pin spacing) + 3.2 mm B = A – 1.7 mm C = A – 1.2 mm D = A – 0.2 mm E = D + 5.8 mm F = D + 11.8 mm



* Approvals with corresponding ratings see pages 12.3 ff.

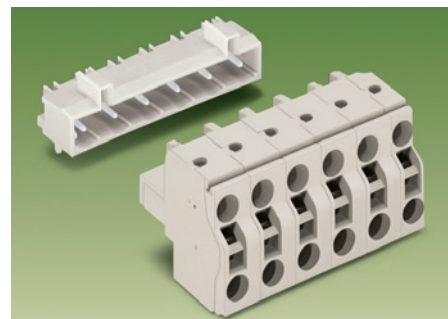
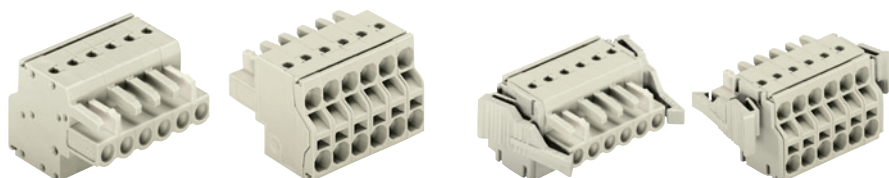
for more technical data see chapter 12, approvals

2-Conductor Female Connectors with CAGE CLAMP®S Connection, 100% Protected against Mismatching, Pin Spacing 5 mm/0.197 in



6
9

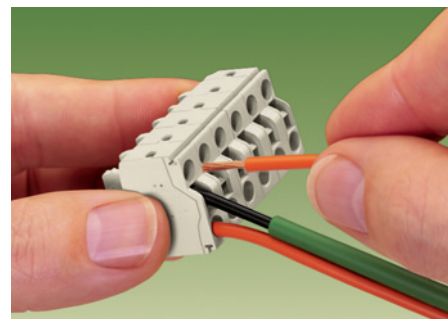
Pin spacing 5 mm/0.197 in, light grey 0.2 – 2.5 mm² AWG 24 – 12 250 V/4 kV/3 300/600 V, 20/5 A 16 A  9 – 10 mm / 0.37 in *  	Pin spacing 5 mm/0.197 in, light grey 0.2 – 2.5 mm² AWG 24 – 12 250 V/4 kV/3 300/600 V, 20/5 A 16 A  9 – 10 mm / 0.37 in *  	Female connector with 2 CAGE CLAMP®S contacts per pole
---	---	---



No. of poles	Item No.	No. of poles	Item No.
2-conductor female connectors with CAGE CLAMP®S connection, 100% protected against mismatching, with coding fingers, with two latches, light grey		2-conductor female connectors with CAGE CLAMP®S connection and locking devices, 100% protected against mismatching, with coding fingers, with two latches, light grey	
2 (one latch only)	721-2102/026-000	2 (one latch only)	721-2102/037-000
3	721-2103/026-000	3	721-2103/037-000
4	721-2104/026-000	4	721-2104/037-000
5	721-2105/026-000	5	721-2105/037-000
6	721-2106/026-000	6	721-2106/037-000
7	721-2107/026-000	7	721-2107/037-000
8	721-2108/026-000	8	721-2108/037-000
9	721-2109/026-000	9	721-2109/037-000
10	721-2110/026-000	10	721-2110/037-000
11	721-2111/026-000	11	721-2111/037-000
12	721-2112/026-000	12	721-2112/037-000
:	:	:	:
16	721-2116/026-000	16	721-2116/037-000

Looping conductors to connect one module to another is possible using female connectors equipped with 2 CAGE CLAMP®S contacts per pole. Therefore disconnecting one module will not affect the others in the circuit.

The female connectors can be plugged into headers with solder pins, are compatible with male connectors equipped with the CAGE CLAMP® connection and are 100% protected against mismatching.

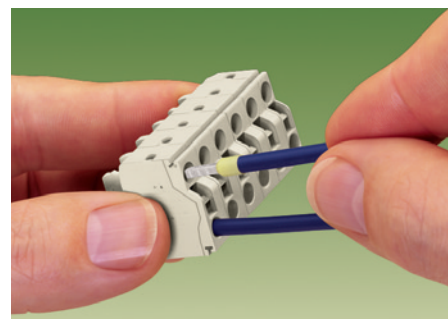


6

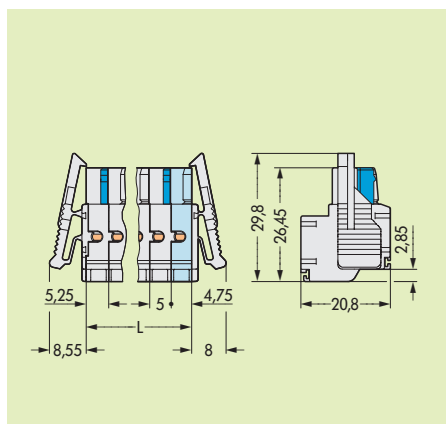
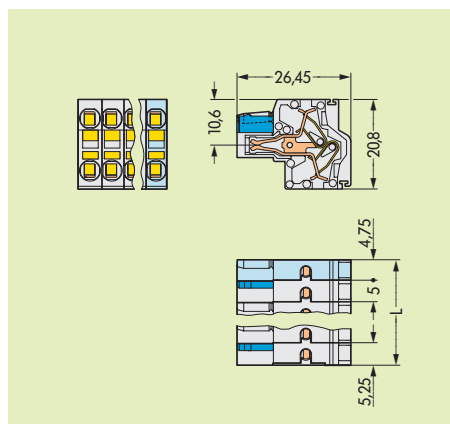
Accessories			
	Screwdriver with partially insulated shaft, (3.5 x 0.5) mm 210-620		Screwdriver with partially insulated shaft, (3.5 x 0.5) mm 210-620
	Insulation stop, 5 pcs/strip 0.8 - 0.2 mm ² ① (white) 231-670 0.25 - 0.5 mm ² (light grey) 231-671 0.75 - 1 mm ² (dark grey) 231-672 ① 0.2 mm ² solid/0.14 mm ² f-st		Insulation stop, 5 pcs/strip 0.8 - 0.2 mm ² ① (white) 231-670 0.25 - 0.5 mm ² (light grey) 231-671 0.75 - 1 mm ² (dark grey) 231-672 ① 0.2 mm ² solid/0.14 mm ² f-st
	Marker strips, self-adhesive 1-12 (300 x) 210-331/0500-0103 13-24 (300 x) 210-331/0500-0104		Marker strips, self-adhesive 1-12 (300 x) 210-331/0500-0103 13-24 (300 x) 210-331/0500-0104
Dimensions (in mm) L = (No. of poles - 2) x Pin spacing + 10 mm			

Handling the CAGE CLAMP®S spring is done in the same easy and obvious way as the CAGE CLAMP® spring. The screwdriver is introduced in the operating slot up to the stop and holds the CAGE CLAMP®S spring open so that the conductor can be inserted. When the screwdriver has been removed the conductor is clamped safely.

Solid and fine-stranded conductors < 0.5 mm²/AWG 20 are connected and removed using a screwdriver.



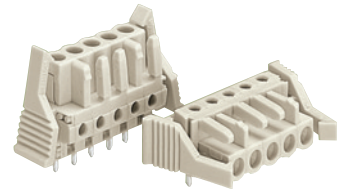
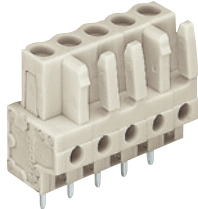
Solid conductors ≥ 0.5 mm²/AWG 20 as well as flexible conductors with crimped ferrules can be inserted directly into the clamping unit. Touch contacting is possible inserting test probes into the test slots



MULTI CONNECTION SYSTEM **MIDI**

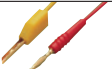
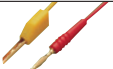
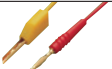
Female Connectors with Solder Pins, 100 % Protected against Mismatching, Pin Spacing 5 mm / 0.197 in

Pin spacing 5 mm/0.197 in, light grey 250 V/4 kV/3 12 A 300 V, 10 A   300 V, 10 A 	Pin spacing 5 mm/0.197 in, light grey 250 V/4 kV/3 12 A 300 V, 10 A   300 V, 10 A 	Female connectors with solder pins and locking device
*    CCA  GL BV LR NV   ABS	*    CCA   GL BV LR NV   ABS	



No. of poles	Item No.	No. of poles	Item No.	Additional item No. for . . .
Female connectors with straight solder pins, 100 % protected against mismatching, with coding fingers, with two latches, light grey, solder pin 0.6 mm x 1 mm		Female connectors with right angle solder pins, 100 % protected against mismatching, with coding fingers, with two latches, light grey, solder pin 0.6 mm x 1 mm		. . . Female connectors with straight or right angle solder pins and locking device
2 (one latch only)	722-132	2 (one latch only)	722-232	. . . /039-000
3	722-133	3	722-233	
4	722-134	4	722-234	
5	722-135	5	722-235	
6	722-136	6	722-236	
7	722-137	7	722-237	
8	722-138	8	722-238	Ordering example:
9	722-139	9	722-239	Female connector with straight solder pins
10	722-140	10	722-240	and locking device,
12	722-142	12	722-242	100 % protected against mismatching,
14	722-144	14	722-244	pin spacing 5 mm/0.197 in, light grey,
16	722-146	16	722-246	8-pole 722-138/039-000
20	722-150	20	722-250	

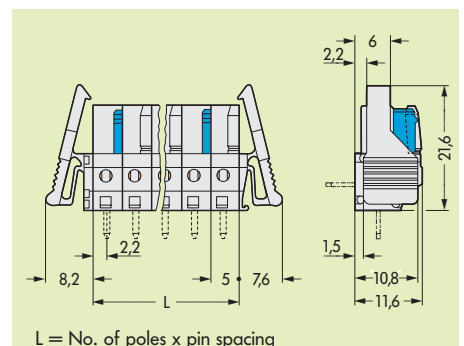
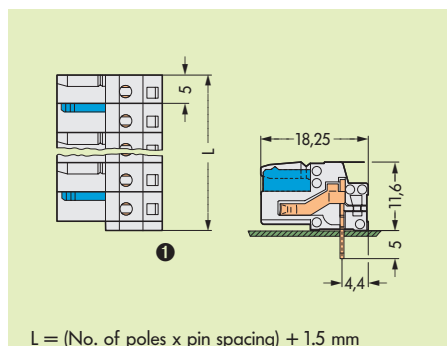
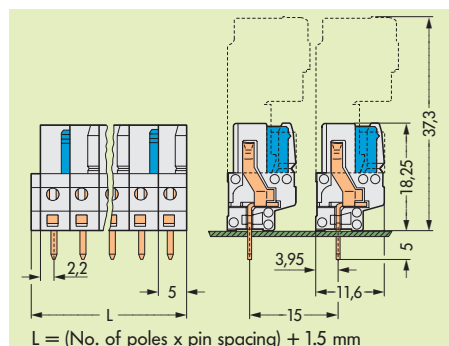
Accessories

 Test plug, w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137	 Test plug, w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137	 Test plug, w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137
 Marker strips, self-adhesive 1-12 (300 x) 210-331/0500-0103 13-24 (300 x) 210-331/0500-0104	 Marker strips, self-adhesive 1-12 (300 x) 210-331/0500-0103 13-24 (300 x) 210-331/0500-0104	 Marker strips, self-adhesive 1-12 (300 x) 210-331/0500-0103 13-24 (300 x) 210-331/0500-0104

Dimensions (in mm)

Diameter of drilled hole: 1.3^{+0.1}mm

① Distance to the first solder pin see drawing on the left

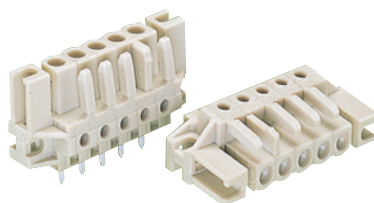
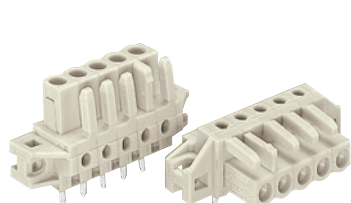


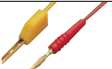
* Approvals with corresponding ratings see pages 12.3 ff.

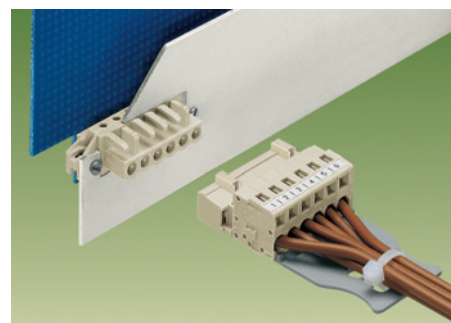
② for more technical data see section 12,  approvals

Female connectors with solder pins
and short fixing flanges
for feedthrough applications

Female connectors with solder pins
and spacers
for flush-mounting

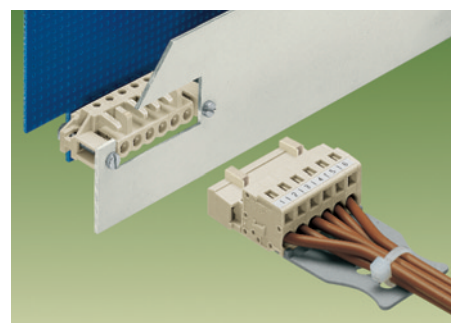


Additional item No. for . . .	Additional item No. for . . .
. . . Female connectors with straight or right angle solder pins and fixing flanges for feedthrough applications	. . . Female connectors with straight or right angle solder pins and spacers for flush-mounting
. . ./031-000	. . ./047-000
Ordering example: Female connector with straight solder pins and fixing flanges for feedthrough applications, 100 % protected against mismatching, pin spacing 5 mm/0.197 in, light grey, 6-pole 722-136/031-000	Ordering example: Female connector with right angle solder pins and spacers for flush-mounting, 100 % protected against mismatching, pin spacing 5 mm/0.197 in, light grey, 6-pole 722-236/047-000
 Test plug , w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137	 Test plug , w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137
 Marker strips , self-adhesive 1-12 (300x) 210-331/0500-0103 13-24 (300x) 210-331/0500-0104	 Marker strips , self-adhesive 1-12 (300x) 210-331/0500-0103 13-24 (300x) 210-331/0500-0104
$L_1 = L + 3 \text{ mm}$ $L_2 = L + 8.8 \text{ mm}$ $L_3 = L + 14.8 \text{ mm}$	

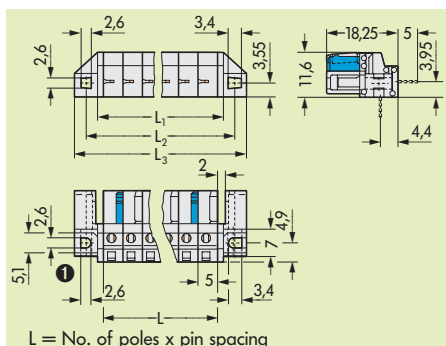
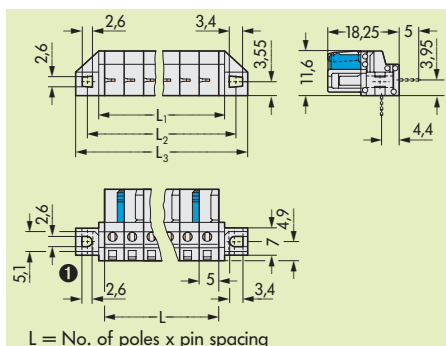


The innovative design of the flanges allows fixing on
standard surfaces as well as in various feedthrough
applications.

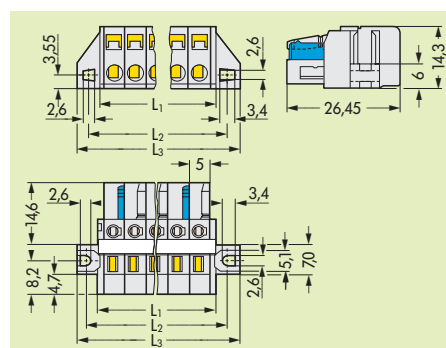
According to the application and style of flange the
female connector can now be used as a panel feed-
through connector . . .

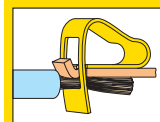


. . . or can be flush-mounted with the front plate.

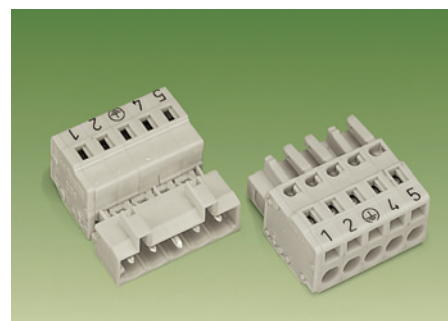


Dimensions (in mm) $L_1 = (\text{No. of poles} \times \text{pin spacing}) + 3 \text{ mm}$ $L_2 = (\text{No. of poles} \times \text{pin spacing}) + 8.8 \text{ mm}$ $L_3 = (\text{No. of poles} \times \text{pin spacing}) + 14.8 \text{ mm}$

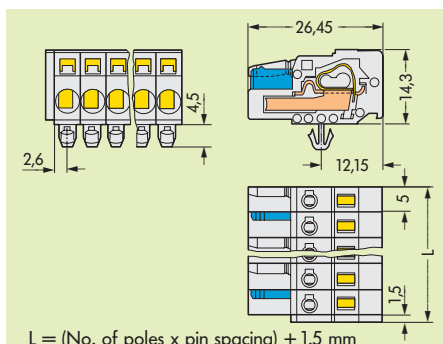
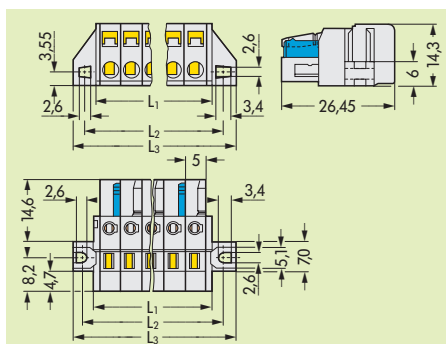




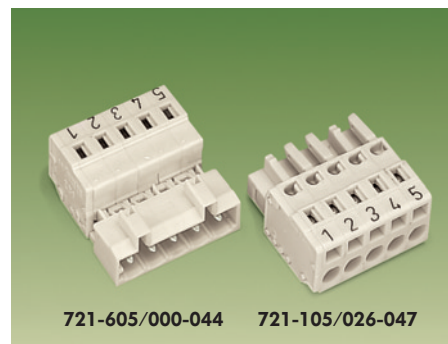
Pin spacing 5 mm/0.197 in, light grey 0.08 – 2.5 mm ² AWG 28 – 12 250 V/4 kV/3 300 V, 15 A 16 A 300 V, 15 A 8 – 9 mm / 0.33 in *	Pin spacing 5 mm/0.197 in, light grey 0.08 – 2.5 mm ² AWG 28 – 12 250 V/4 kV/3 300 V, 15 A 16 A 300 V, 15 A 8 – 9 mm / 0.33 in *	Direct printing
---	---	------------------------



No. of poles	Item No.	No. of poles	Item No.	
Female connectors with CAGE CLAMP® and fixing flanges, for panel mounting, 100 % protected against mismatching, with coding fingers, with two latches, for screw fixing or similar methods, light grey		Female connectors with CAGE CLAMP® and snap-in mounting feet, 100 % protected against mismatching, with coding fingers, with two latches, light grey, for plate thickness 0.6 mm–1.2 mm, fixing hole Ø 3.5 mm (or with mounting adapter 209-137 for DIN 35 rail)		① 3- to 5-pole fem. connectors with CAGE CLAMP® are available with special printing, suitable for headers and male connectors with preceding gr. (earth) contact. Printing 3-pole: 1 - ⊕ - 3 4-pole: 1 - 2 - ⊕ - 4 5-pole: 1 - 2 - ⊕ - 4 - 5 Add. item No.: ... / ... -045 Additional item No. for appropriate male connectors with corresp. printing ... / ... -042
2 (one latch only)	721-102/031-000	2 (one latch only)	721-102/008-000	Ordering example: 5-pole female connector with locking device, with printing 1-2-⊕-4-5: 721-105/037-045
3	721-103/031-000 ①	3	721-103/008-000 ①	5-pole male connector, with printing 5-4-⊕-2-1: 721-605/000-042
4	721-104/031-000 ①	4	721-104/008-000 ①	Other printings – contact factory
5	721-105/031-000 ①	5	721-105/008-000 ①	
6	721-106/031-000	6	721-106/008-000	
:	:	:	:	
10	721-110/031-000	10	721-110/008-000	
12	721-112/031-000	12	721-112/008-000	
14	721-114/031-000	14	721-114/008-000	
16	721-116/031-000	16	721-116/008-000	
20	721-120/031-000	20	721-120/008-000	
 Test plug, w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137		 Test plug, w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137		All female connectors with CAGE CLAMP® are also available with printed pole marking. Standard printing: 1-2-3-4-5- ... Add. item No.: ... / ... -047 Additional item No. for appropriate male connectors with corresp. printing ... / ... -044
 Insulation stop, 5 pcs/strip 0.08 - 0.2 mm ² ② (white) 231-670 0.25 - 0.5 mm ² (light gr.) 231-671 0.75 - 1 mm ² (dark grey) 231-672 ② 0.2 mm ² solid/0.14 mm ² f-st		 Insulation stop, 5 pcs/strip 0.08 - 0.2 mm ² ② (white) 231-670 0.25 - 0.5 mm ² (light gr.) 231-671 0.75 - 1 mm ² (dark grey) 231-672 ② 0.2 mm ² solid/0.14 mm ² f-st		Ordering example: 5-pole female connector, with printing 1-2-3: 721-105/026-047 5-pole male connector, with printing 5-4-3-2-1: 721-605/000-044
 Tapping screw, B 2.2 x 9.5 209-147 fixing hole Ø 1.8 mm		 Mounting adapter, for DIN 35 rail, grey 209-137 3 or more poles		
 Marker strips, self-adhesive 1-12 (300 x) 210-331/0500-0103 13-24 (300 x) 210-331/0500-0104		 Marker strips, self-adhesive 1-12 (300 x) 210-331/0500-0103 13-24 (300 x) 210-331/0500-0104		Other printings – contact factory



$$L = (\text{No. of poles} \times \text{pin spacing}) + 1.5 \text{ mm}$$



721-605/000-044

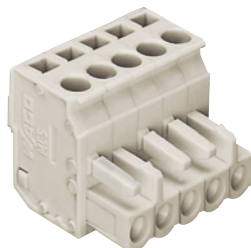
721-105/026-047

MULTI CONNECTION SYSTEM **MIDI**

Angled Female Connectors with **CAGE CLAMP®**, 100 % Protected against Mismatching, Pin Spacing 5 mm / 0.197 in

Pin spacing 5 mm/0.197 in, light grey
 0.08 – 2.5 mm² | AWG 28 – 12
 250 V/4 kV/3 | 300 V, 15 A **VA** ①
 14 A | 300 V, 15 A **VE**
 8 – 9 mm / 0.33 in

* **VA** **VE**

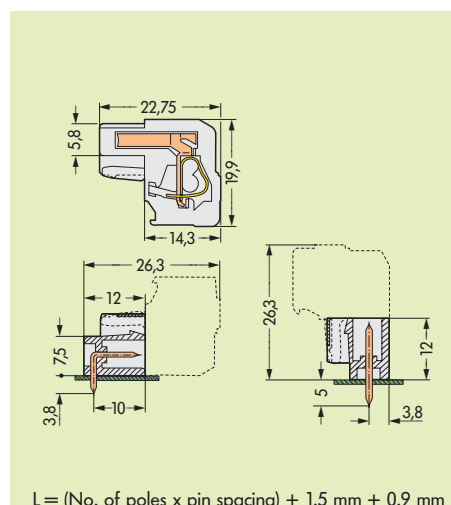


No. of poles	Item No.		
Angled female connectors with CAGE CLAMP®, 100 % protected against mismatching, conductor exit same direction as latches, with 2 latches, light grey			
2 (one latch only)	722-202/026-000		
3	722-203/026-000		
4	722-204/026-000		
5	722-205/026-000		
6	722-206/026-000		
:	:		
10	722-210/026-000		
12	722-212/026-000		
14	722-214/026-000		
16	722-216/026-000		
20	722-220/026-000		

Accessories

	Test plug , w. cable 500 mm/1'7.7"		
	2 mm/0.079 in Ø, red 210-136		
	2.3 mm/0.091 in Ø, yel. 210-137		
	Insulation stop , 5 pcs/strip		
	0.08 - 0.2 mm ² ② (white) 231-670		
	0.25 - 0.5 mm ² (light gr.) 231-671		
	0.75 - 1 mm ² (dark grey) 231-672		
	② 0.2 mm ² solid/0.14 mm ² f-st		

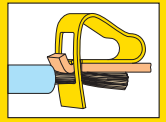
Dimensions (in mm)



* Approvals with corresponding ratings see pages 12.3 ff.

① for more technical data see section 12, **VA** approvals

Angled Female Connectors for Panel Mounting and CAGE CLAMP®, 100 % Protected against Mismatching, Pin Spacing 5 mm/0.197 in



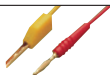
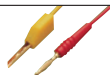
6
15

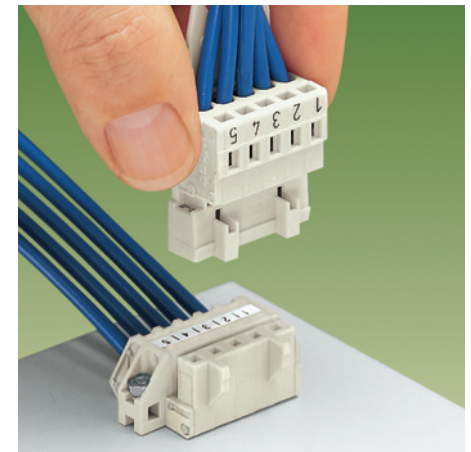
Pin spacing 5 mm/0.197 in, light grey 0.08 – 2.5 mm² AWG 28 – 12 250 V/4 kV/3 300 V, 15 A 1 12 A 300 V, 15 A	Pin spacing 5 mm/0.197 in, light grey 0.08 – 2.5 mm² AWG 28 – 12 250 V/4 kV/3 300 V, 15 A 1 12 A 300 V, 15 A	
8 – 9 mm / 0.33 in	8 – 9 mm / 0.33 in	
*	*	

$L_1 = \text{No. of poles} \times \text{pin spacing} + 3 \text{ mm}$
 $L_2 = \text{No. of poles} \times \text{pin spacing} + 8.8 \text{ mm}$
 $L_3 = \text{No. of poles} \times \text{pin spacing} + 14.8 \text{ mm}$

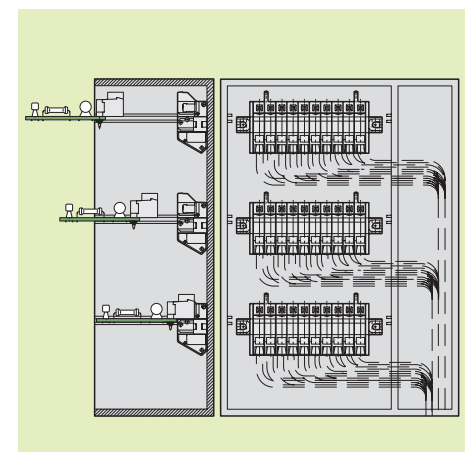
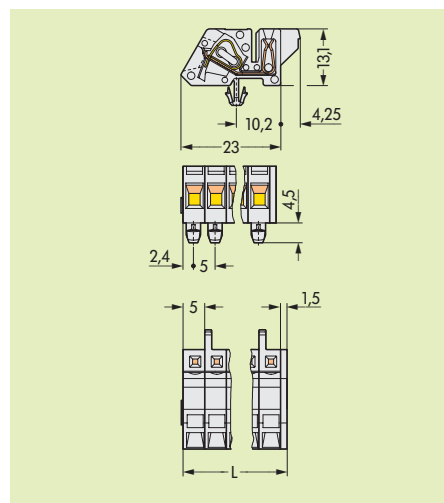
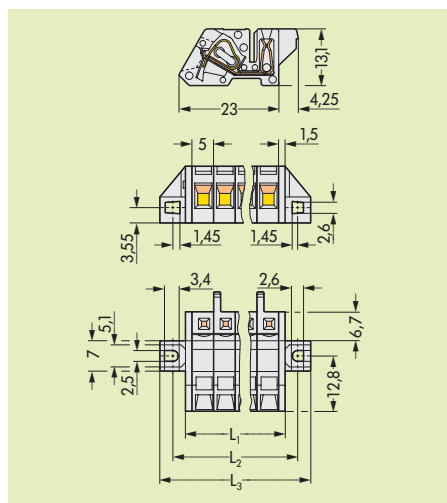
$L = \text{No. of poles} \times \text{pin spacing} + 1.5 \text{ mm}$



No. of poles	Item No.	No. of poles	Item No.
Angled female connectors with CAGE CLAMP® and fixing flanges for panel mounting, 100 % protected against mismatching, for screw fixing or similar methods, with 2 latches, light grey		Angled female connectors with CAGE CLAMP® and snap-in mounting feet for panel mounting, 100 % protected against mismatching, plate thickness 0.6 – 1.2 mm, fixing hole Ø 3.5 mm, light grey	
2	721-302/031-000	2	721-302/008-000
3	721-303/031-000	3	721-303/008-000
4	721-304/031-000	4	721-304/008-000
5	721-305/031-000	5	721-305/008-000
6	721-306/031-000	6	721-306/008-000
:	:	:	:
10	721-310/031-000	10	721-310/008-000
12	721-312/031-000	12	721-312/008-000
14	721-314/031-000	14	721-314/008-000
16	721-316/031-000	16	721-316/008-000
20	721-320/031-000	20	721-320/008-000
Accessories			
 Test plug, w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137		 Test plug, w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137	
 Countersunk screw, M 2 x 12, not offered by WAGO			
 Marker strips, self-adhesive 1–12 (300 x) 210-331/0500-0103 13–24 (300 x) 210-331/0500-0104		 Marker strips, self-adhesive 1–12 (300 x) 210-331/0500-0103 13–24 (300 x) 210-331/0500-0104	
Dimensions (in mm)			



Panel mounted connectors. Male connectors with CAGE CLAMP® connection and strain relief plate for outgoing circuit.



Multilevel arrangement in a distributed electronic housing

* Approvals with corresponding ratings see pages 12.3 ff.

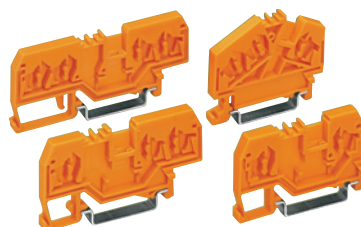
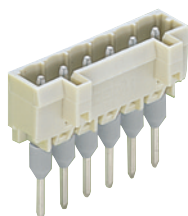
MULTI CONNECTION SYSTEM **MIDI**

Headers for Front-Entry Rail-Mounted Terminal Blocks, **100 % Protected against Mismatching**, Pin Spacing 5 mm / 0.197 in

Straight contact pin 1.2 mm x 1.2 mm
Pin spacing 5 mm / 0.197 in, light grey
250 V/4 kV/3 ①
50 V~ ②
16 A ③/14 A ④

Rail-mounted spacer blocks
Thickness 5 mm / 0.197 in, orange

*



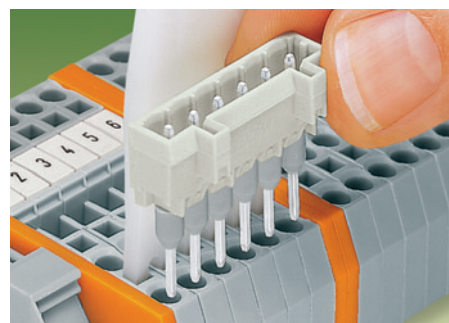
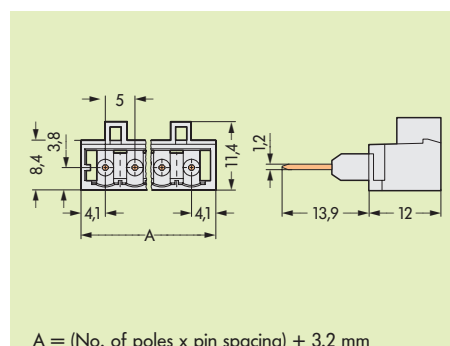
- ① Voltage rating when power is supplied via connector side
- ② Voltage rating when power is taken from the terminal block side (single conductors)
- ③ with straight female connectors with CAGE CLAMP®
- ④ with angled female connectors with CAGE CLAMP®

No. of poles	Item No.	Item No.
Headers with long contact pins, 100 % protected against mismatching, light grey, 1.2 mm x 1.2 mm		same shape as through terminal blocks, flat type
2	721-162/003-000	2-conductor 280-902/056-000
3	721-163/003-000	3-conductor 280-650/056-000
4	721-164/003-000	4-conductor 280-835/056-000
5	721-165/003-000	angled type
6	721-166/003-000	3/4-conductor 280-654/056-000
7	721-167/003-000	
8	721-168/003-000	
9	721-169/003-000	
10	721-170/003-000	
12 ⑤	721-172/003-000	
14 ⑤	721-174/003-000	
16 ⑤	721-176/003-000	
20 ⑤	721-180/003-000	
⑤ only suitable for factory installation		Spacer block can be bridged using alternate jumpers or staggered jumpers.

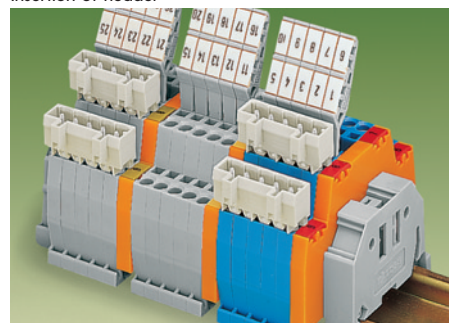
Accessories

	Coding key, snap-on type, light grey 231-129
	Operating tool, for insertion of headers into front-entry rail-mounted terminal blocks
	2-way 280-432
	3-way 280-433
	4-way 280-434
	5-way 280-435
	6-way 280-436
	7-way 280-437
	8-way 280-438
	9-way 280-439
	10-way 280-440

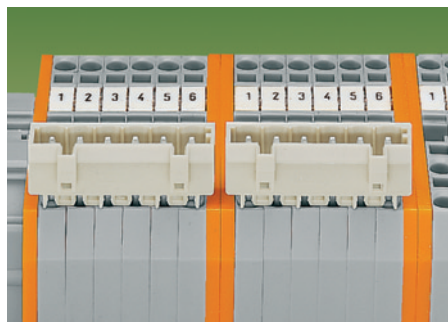
Dimensions (in mm)



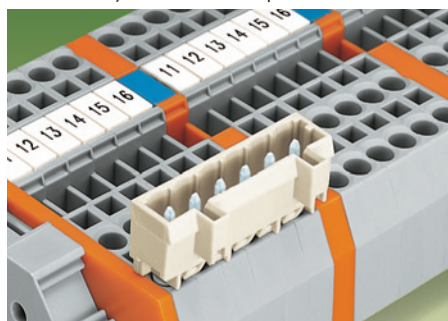
Insertion of header



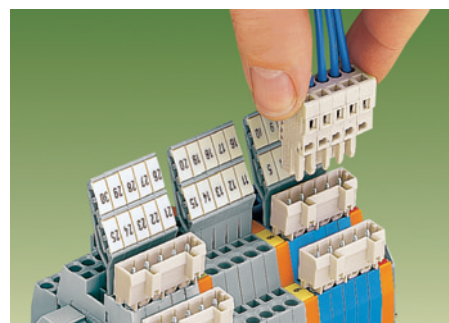
Headers in double deck terminal blocks series 280. Assembly of blocks using marker plate 280-360, 280-361 if used for terminal blocks with additional commoning.



The extra width of the headers when used on front-entry rail-mounted terminal blocks must be compensated either by two intermediate plates or ...



... by a rail-mounted spacer block. When the header pin side is used to supply power, the pins are not touchproof and voltage must not exceed 50 V.



Note: These connectors can only be mated and unmated at voltages below 42 V and in the "No load" condition.

For mating and unmating at low power values, please request data.

Female Connectors for Front-Entry Rail-Mounted Terminal Blocks, 100 % Protected against Mismatching, Pin Spacing 5 mm / 0.197 in

Straight contact pin 0.6 mm x 1 mm
Pin spacing 5 mm / 0.197 in, light grey
250 V/4 kV/3 | 300 V, 10 A 
12 A | 300 V, 10 A 

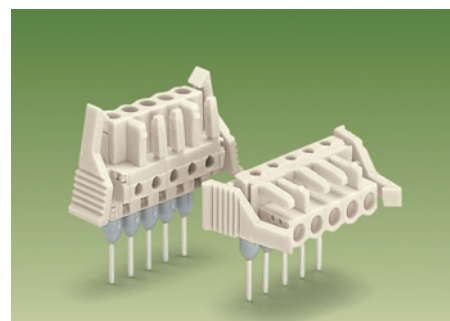
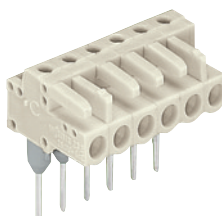
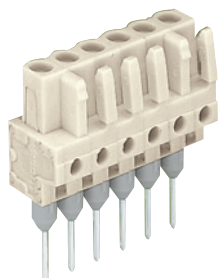
Right angle contact pin 0.6 mm x 1 mm
Pin spacing 5 mm / 0.197 in, light grey
250 V/4 kV/3 | 300 V, 10 A 
12 A | 300 V, 10 A 

Female connectors with straight long
or right angle contact pins and
locking device

Additional item No.
722-.../005-000/039-000

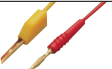
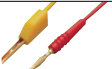
*    CCA  

*    CCA  

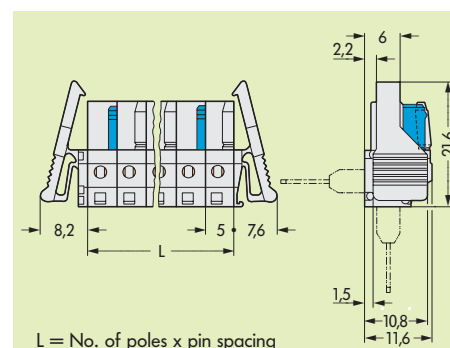
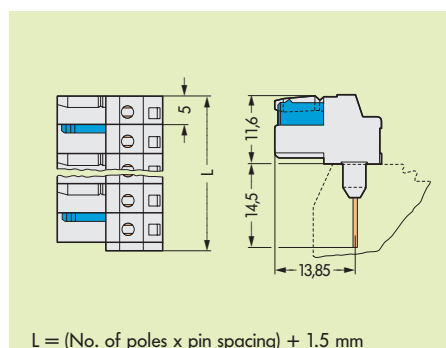
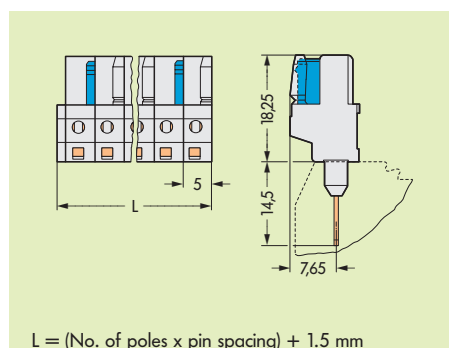


No. of poles	Item No.	No. of poles	Item No.
Female connectors with straight long contact pins, 100 % protected against mismatching, with coding fingers, with two latches, light grey		Female connectors with right angle long contact pins, 100 % protected against mismatching, with coding fingers, with two latches, light grey	
2 (one latch only)	722-132/005-000	2 (one latch only)	722-232/005-000
3	722-133/005-000	3	722-233/005-000
4	722-134/005-000	4	722-234/005-000
5	722-135/005-000	5	722-235/005-000
6	722-136/005-000	6	722-236/005-000
7	722-137/005-000	7	722-237/005-000
8	722-138/005-000	8	722-238/005-000
9	722-139/005-000	9	722-239/005-000
10	722-140/005-000	10	722-240/005-000
12 ①	722-142/005-000	12 ①	722-242/005-000
14 ①	722-144/005-000	14 ①	722-244/005-000
16 ①	722-146/005-000	16 ①	722-246/005-000
20 ①	722-150/005-000	20 ①	722-250/005-000
① only suitable for factory installation		① only suitable for factory installation	

Accessories

	Test plug , w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137		Test plug , w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137
	Operating tool , for insertion of female connectors into front-entry rail-mounted terminal blocks		Operating tool , for insertion of female connectors into front-entry rail-mounted terminal blocks
	2-way 280-432		2-way 280-432
	3-way 280-433		3-way 280-433
	4-way 280-434		4-way 280-434
	5-way 280-435		5-way 280-435
	6-way 280-436		6-way 280-436
	7-way 280-437		7-way 280-437
	8-way 280-438		8-way 280-438
	9-way 280-439		9-way 280-439
	10-way 280-440		10-way 280-440

Dimensions (in mm)

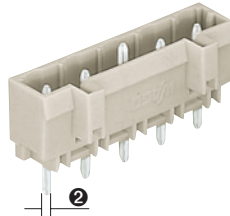
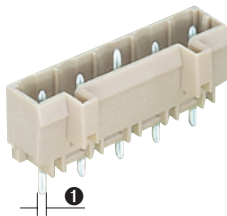


* Approvals with corresponding ratings see pages 12.3 ff.

MULTI CONNECTION SYSTEM **MIDI**

**Headers with Solder Pins, 100 % Protected against Mismatching,
Pin Spacing 7.5 mm / 0.295 in**

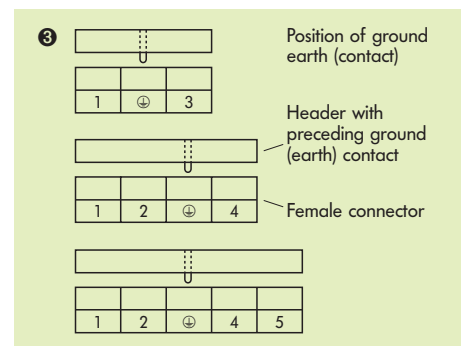
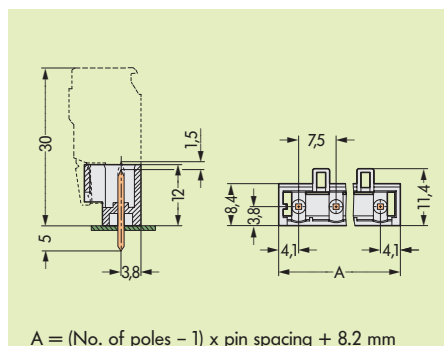
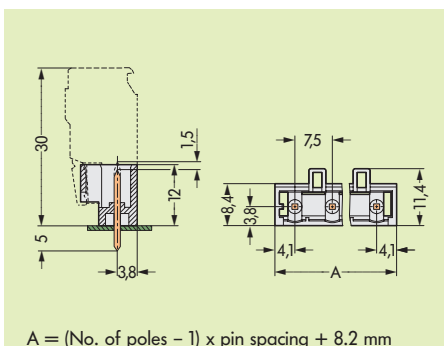
Pin spacing 7.5 mm/0.295 in, light grey 400 V/6 kV/3 12 A 300 V, 10 A  300 V, 10 A 	Pin spacing 7.5 mm/0.295 in, light grey 400 V/6 kV/3 16 A 300 V, 15 A  300 V, 15 A 
*   VDE     GL BV LR NV    ABS	*   VDE     GL BV LR NV    ABS



No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.	
Headers with solder pins, 100 % protected against mismatching, light grey, straight solder pin 1 mm x 1 mm ❶			Headers with solder pins, 100 % protected against mismatching, light grey, straight solder pin 1.2 mm x 1.2 mm ❷			
without			without			
with			with			
preceding ground (earth) contact			preceding ground (earth) contact			
2	721-232/001-000		2	721-262/001-000		
3	721-233/001-000	721-233/001-040 ❸	3	721-263/001-000	721-263/001-040 ❸	
4	721-234/001-000	721-234/001-040 ❸	4	721-264/001-000	721-264/001-040 ❸	
5	721-235/001-000	721-235/001-040 ❸	5	721-265/001-000	721-265/001-040 ❸	
6	721-236/001-000		6	721-266/001-000		
7	721-237/001-000		7	721-267/001-000		
8	721-238/001-000		8	721-268/001-000		
9	721-239/001-000		9	721-269/001-000		
10	721-240/001-000		10	721-270/001-000		
11	721-241/001-000		11	721-271/001-000		
12	721-242/001-000		12	721-272/001-000		

Accessories (please refer to remarks concerning coding on page 7.59)[illegible]

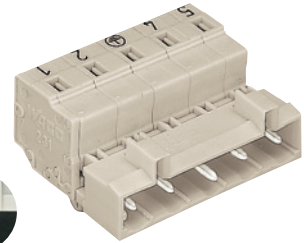
Dimensions (in mm) Diameter of drilled hole: $1.4^{+0.1}$ mm (solder pin 1 mm x 1 mm); $1.7^{+0.1}$ mm (solder pin 1.2 mm x 1.2 mm)



* Approvals with corresponding ratings see pages 12.3 ff.

100 % Protected against Mismatching, Pin Spacing 7.5 mm / 0.295 in

Pin spacing 7.5 mm/0.295 in, light grey 0.08 – 2.5 mm² AWG 28 – 12 400 V/6 kV/3 300 V, 15 A  12 A 300 V, 15 A   8 – 9 mm / 0.33 in	Pin spacing 7.5 mm/0.295 in, light grey 0.08 – 2.5 mm² AWG 28 – 12 400 V/6 kV/3 300 V, 15 A  12 A 300 V, 15 A   8 – 9 mm / 0.33 in	Pin spacing 7.5 mm/0.295 in, light grey 0.08 – 2.5 mm² AWG 28 – 12 400 V/6 kV/3 300 V, 15 A  12 A 300 V, 15 A   8 – 9 mm / 0.33 in
*       	*       	*       

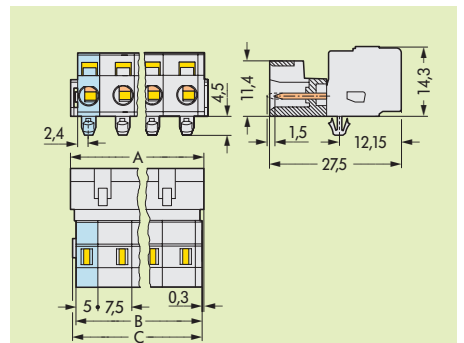


No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.
Male connectors with CAGE CLAMP®, 100 % protected against mismatching, light grey			Male connectors with CAGE CLAMP® and fixing flanges, 100 % protected against mismatching, light grey, for screw fixing or similar methods, for vertical and horizontal fixing			Male connectors with CAGE CLAMP® and snap-in mounting feet, 100 % protected against mismatching, light grey, for plate thickness 0.6 mm – 1.2 mm, fixing hole Ø 3.5 mm, w. mount. adapter 209-137 for DIN 35 rail		
without		with	without		with	without		with
preceding ground (earth) contact			preceding ground (earth) contact			preceding ground (earth) contact		
2	723-602		2	723-602/019-000		2	723-602/018-000	
3	723-603	723-603/000-042 ①	3	723-603/019-000	723-603/019-042 ①	3	723-603/018-000	723-603/018-042 ①
4	723-604	723-604/000-042 ①	4	723-604/019-000	723-604/019-042 ①	4	723-604/018-000	723-604/018-042 ①
5	723-605	723-605/000-042 ①	5	723-605/019-000	723-605/019-042 ①	5	723-605/018-000	723-605/018-042 ①
6	723-606		6	723-606/019-000		6	723-606/018-000	
:	:		:	:		:	:	
11	723-611		11	723-611/019-000		11	723-611/018-000	
12	723-612		12	723-612/019-000		12	723-612/018-000	
① 3- to 5-pole male connectors with preceding ground (earth) contact are marked with a special printing, for ex. marking 5-pole: 5 - 4 - ☉ - 2 - 1			① 3- to 5-pole male connectors with preceding ground (earth) contact are marked with a special printing, for ex. marking 5-pole: 5 - 4 - ☉ - 2 - 1			① 3- to 5-pole male connectors with preceding ground (earth) contact are marked with a special printing, for ex. marking 5-pole: 5 - 4 - ☉ - 2 - 1		

Accessories (please refer to remarks concerning coding on page 7.59)

 Coding key, snap-on type, light grey 231-130	 Coding key, snap-on type, light grey 231-130	 Coding key, snap-on type, light grey 231-130
 Insulation stop, 5 pcs/strip 0.08 - 0.2 mm² ② (white) 231-673 0.25 - 0.5 mm² (light gr.) 231-674 0.75 - 1 mm² (dark grey) 231-675	 Insulation stop, 5 pcs/strip 0.08 - 0.2 mm² ② (white) 231-673 0.25 - 0.5 mm² (light gr.) 231-674 0.75 - 1 mm² (dark grey) 231-675	 Insulation stop, 5 pcs/strip 0.08 - 0.2 mm² ② (white) 231-673 0.25 - 0.5 mm² (light gr.) 231-674 0.75 - 1 mm² (dark grey) 231-675
② 0.2 mm² solid / 0.14 mm² f-st	② 0.2 mm² solid / 0.14 mm² f-st	② 0.2 mm² solid / 0.14 mm² f-st
 Marker strips, self-adhesive 1-16 (100x) 210-331/0750-0202	 Tapping screw, B 2.2 x 9.5 209-147 fixing hole Ø 1.8 mm	 Mounting adapter, for DIN 35 rail, grey 209-137
	Marker strips, self-adhesive 1-16 (100x) 210-331/0750-0202	Marker strips, self-adhesive 1-16 (100x) 210-331/0750-0202

Dimensions (in mm) $A = (\text{No. of poles} - 1) \times \text{pin sp.} + 5 \text{ mm} + 3.2 \text{ mm}$ $B = A - 1.7 \text{ mm}$ $C = A - 1.2 \text{ mm}$ $D = A - 0.2 \text{ mm}$ $E = D + 5.8 \text{ mm}$ $F = D + 11.8 \text{ mm}$

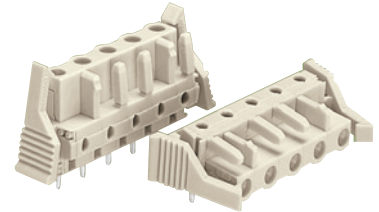
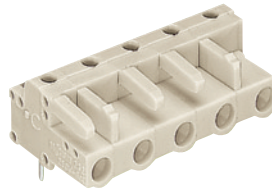
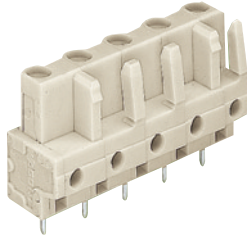


* Approvals with corresponding ratings see pages 12.3 ff.

MULTI CONNECTION SYSTEM **MIDI**

**Female Connectors with Solder Pins, 100 % Protected against Mismatching,
Pin Spacing 7.5 mm / 0.295 in**

Pin spacing 7.5 mm/0.295 in, light grey 400 V/6 kV/3 300 V, 10 A  12 A	Pin spacing 7.5 mm/0.295 in, light grey 400 V/6 kV/3 300 V, 10 A  12 A	Female connectors with solder pins and locking device
*      GL BV LR NV   	*      GL BV LR NV   	

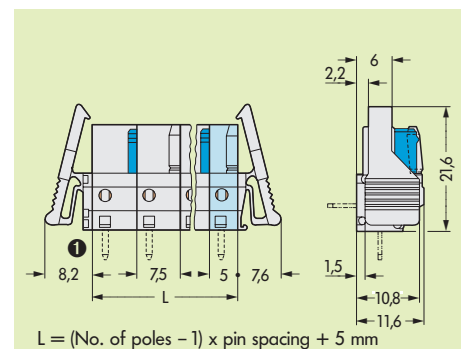
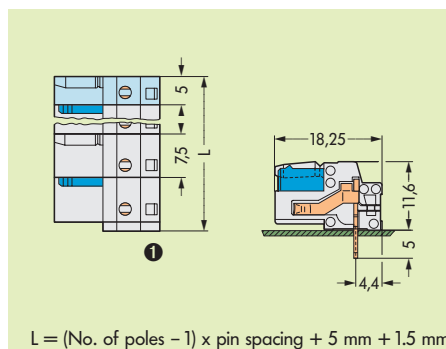
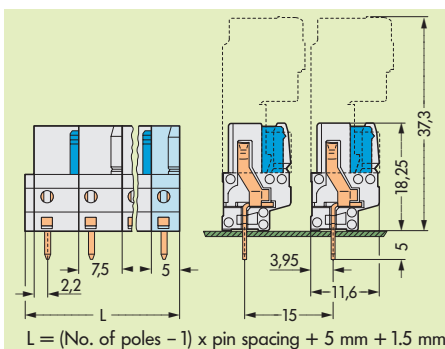


No. of poles	Item No.	No. of poles	Item No.	Additional item No. for . . .
Female connectors with straight solder pins, 100 % protected against mismatching, with coding fingers, with two latches, light grey, solder pin 0.6 mm x 1 mm		Female connectors with right angle solder pins, 100 % protected against mismatching, with coding fingers, with two latches, light grey, solder pin 0.6 mm x 1 mm		. . . Female connectors with straight or right angle solder pins and locking device
				. . ./039-000
2 (one latch only)	722-732	2 (one latch only)	722-832	
3	722-733	3	722-833	
4	722-734	4	722-834	
5	722-735	5	722-835	
6	722-736	6	722-836	
7	722-737	7	722-837	
8	722-738	8	722-838	Ordering example:
9	722-739	9	722-839	Female connector with straight solder pins
10	722-740	10	722-840	and locking device,
11	722-741	11	722-841	100 % protected against mismatching,
12	722-742	12	722-842	pin spacing 7.5 mm/0.295 in, light grey,
				12-pole 722-742/039-000

Accessories

[illegible]

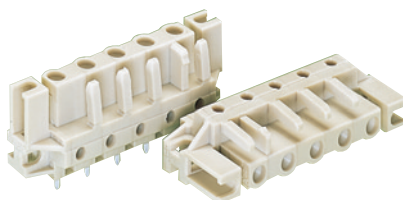
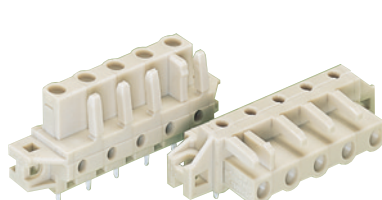
Dimensions (in mm) **Diameter of drilled hole:** $1.3^{+0.1}$ mm **①** Distance to the first solder pin see left drawing

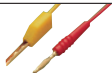
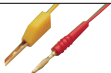


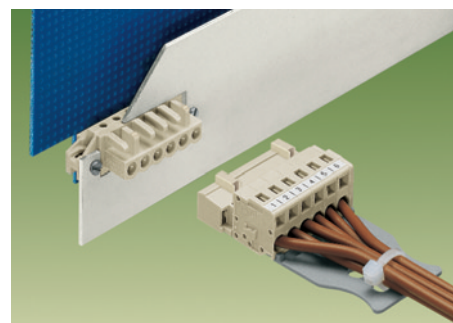
* Approvals with corresponding ratings see pages 12.3 ff.

Female connectors with solder pins
and short fixing flanges
for feedthrough applications

Female connectors with solder pins
and spacers
for flush-mounting

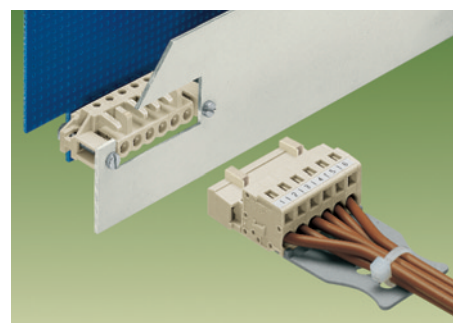


Additional item No. for . . .	Additional item No. for . . .
. . . Female connectors with straight or right angle solder pins and fixing flanges for feedthrough applications	. . . Female connectors with straight or right angle solder pins and spacers for flush-mounting
. . ./031-000	. . ./047-000
Ordering example: Female connector with straight solder pins and fixing flanges for feedthrough applications, 100 % protected against mismatching, pin spacing 7.5 mm/0.295 in, light grey, 6-pole 722-736/031-000	Ordering example: Female connector with right angle solder pins and spacers for flush-mounting, 100 % protected against mismatching, pin spacing 7.5 mm/0.295 in, light grey, 6-pole 722-836/047-000
 Test plug , w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137	 Test plug , w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137
 Marker strips , self-adhesive 1-16 (100x) 210-331/0750-0202	 Marker strips , self-adhesive 1-16 (100x) 210-331/0750-0202
$L_1 = L + 3 \text{ mm}$ $L_2 = L + 8.8 \text{ mm}$ $L_3 = L + 14.8 \text{ mm}$	

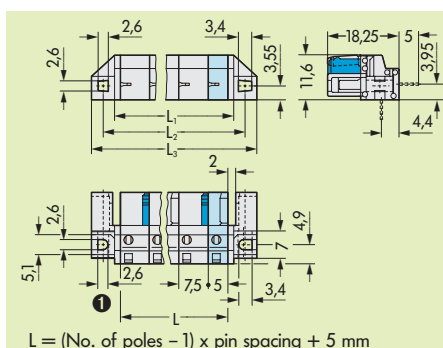
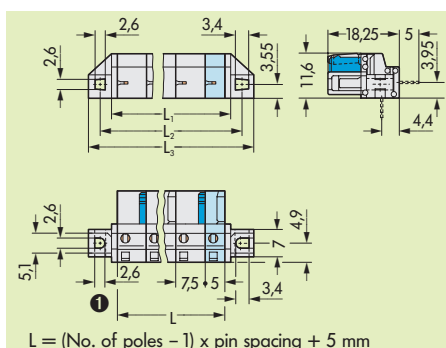


The innovative design of the flanges allows fixing on
standard surfaces as well as in various feedthrough
applications.

According to the application and style of flange the
female connector can now be used as a panel feed-
through connector . . .



. . . or can be flush-mounted with the front plate.



MULTI CONNECTION SYSTEM MIDI

Female Connectors with CAGE CLAMP®, 100 % Protected against Mismatching, Pin Spacing 7.5 mm / 0.295 in

Pin spacing 7.5 mm/0.295 in, light grey
0.08 – 2.5 mm² | AWG 28 – 12
400 V/6 kV/3 | 300 V, 15 A 
16 A | 300 V, 15 A 
 8 – 9 mm / 0.33 in

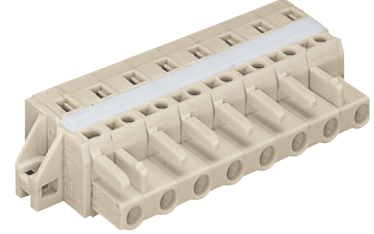
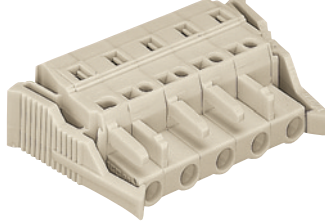
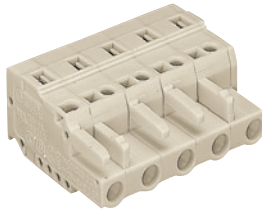
*       

Pin spacing 7.5 mm/0.295 in, light grey
0.08 – 2.5 mm² | AWG 28 – 12
400 V/6 kV/3 | 300 V, 15 A 
16 A | 300 V, 15 A 
 8 – 9 mm / 0.33 in

*       

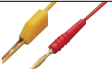
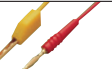
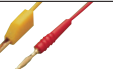
Pin spacing 7.5 mm/0.295 in, light grey
0.08 – 2.5 mm² | AWG 28 – 12
400 V/6 kV/3 | 300 V, 15 A 
16 A | 300 V, 15 A 
 8 – 9 mm / 0.33 in

*       

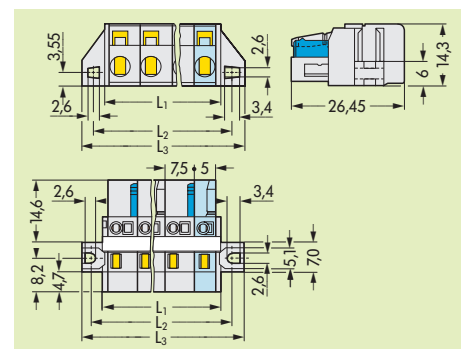
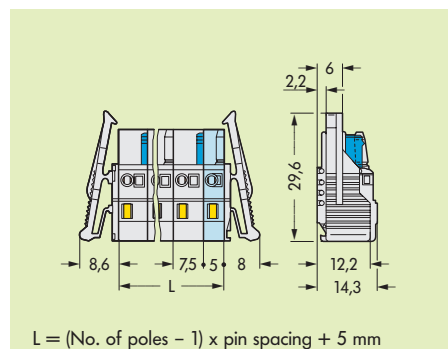
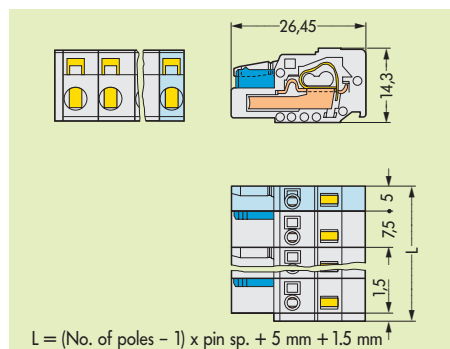


No. of poles	Item No.	No. of poles	Item No.	No. of poles	Item No.
Female connectors with CAGE CLAMP®, 100 % protected against mismatching, with coding fingers, with two latches, light grey		Female connectors with CAGE CLAMP® and locking device, 100 % protected against mismatching, with coding fingers, with two latches, light grey		Female connectors with CAGE CLAMP® and fixing flanges, for racks and feedthrough connections, 100 % protected against mismatching, with reinforcing strips, with coding fingers, with two latches, for screw fixing or similar methods, light grey	
2 (one latch only)	721-202/026-000	2 (one latch only)	721-202/037-000	2	please use female connectors for panel mounting
3	721-203/026-000 	3	721-203/037-000 	3	(item No. 721-202/031-000 to 721-205/031-000)
4	721-204/026-000 	4	721-204/037-000 	4	see page 6.25
5	721-205/026-000 	5	721-205/037-000 	5	
6	721-206/026-000	6	721-206/037-000	6	721-206/027-000
7	721-207/026-000	7	721-207/037-000	7	721-207/027-000
8	721-208/026-000	8	721-208/037-000	8	721-208/027-000
9	721-209/026-000	9	721-209/037-000	9	721-209/027-000
10	721-210/026-000	10	721-210/037-000	10	721-210/027-000
11	721-211/026-000	11	721-211/037-000	11	721-211/027-000
12	721-212/026-000	12	721-212/037-000	12	721-212/027-000

Accessories

	Test plug, w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137		Test plug, w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137		Test plug, w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137
	Insulation stop, 5 pcs/strip 0.08 - 0.2 mm ²  (white) 231-673 0.25 - 0.5 mm ² (light gr.) 231-674 0.75 - 1 mm ² (dark grey) 231-675  0.2 mm ² solid/0.14 mm ² f-st		Insulation stop, 5 pcs/strip 0.08 - 0.2 mm ²  (white) 231-673 0.25 - 0.5 mm ² (light gr.) 231-674 0.75 - 1 mm ² (dark grey) 231-675  0.2 mm ² solid/0.14 mm ² f-st		Insulation stop, 5 pcs/strip 0.08 - 0.2 mm ²  (white) 231-673 0.25 - 0.5 mm ² (light gr.) 231-674 0.75 - 1 mm ² (dark grey) 231-675  0.2 mm ² solid/0.14 mm ² f-st
	Marker strips, self-adhesive 1-16 (100x) 210-331/0750-0202		Marker strips, self-adhesive 1-16 (100x) 210-331/0750-0202		Tapping screw, B 2.2 x 9.5 209-147 fixing hole Ø 1.8 mm
					Marker strips, self-adhesive 1-16 (100x) 210-331/0750-0202

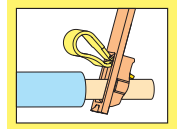
Dimensions (in mm) $A = (\text{No. of poles} - 1) \times \text{pin spacing}$ $L_1 = A + 5 \text{ mm} + 3 \text{ mm}$ $L_2 = A + 5 \text{ mm} + 8.8 \text{ mm}$ $L_3 = A + 5 \text{ mm} + 14.8 \text{ mm}$



* Approvals with corresponding ratings see pages 12.3 ff.

MULTI CONNECTION SYSTEM **MIDI**

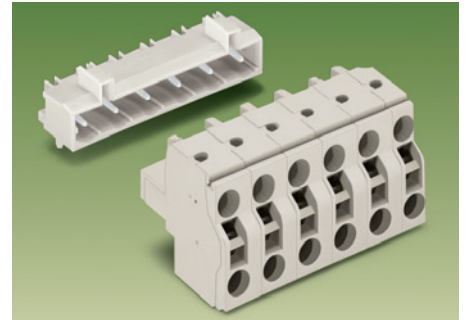
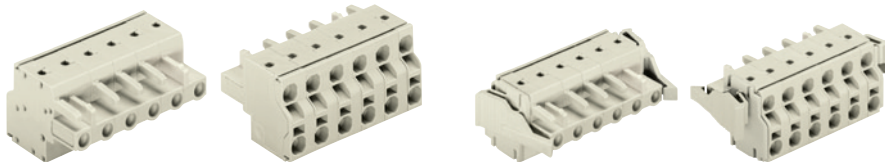
2-Conductor Female Connectors with **CAGE CLAMP®S** Connection, **100% Protected against Mismatching**, Pin Spacing 7.5 mm/0.295 in



Pin spacing 7.5 mm/0.295 in, light grey
0.2 – 2.5 mm² | AWG 24 – 12
400 V/6 kV/3 | 300/600 V, 20/5 A 
16 A
 9 – 10 mm / 0.37 in
* 

Pin spacing 7.5 mm/0.295 in, light grey
0.2 – 2.5 mm² | AWG 24 – 12
400 V/6 kV/3 | 300/600 V, 20/5 A 
16 A
 9 – 10 mm / 0.37 in
* 

Female connector with
2 CAGE CLAMP®S contacts per pole

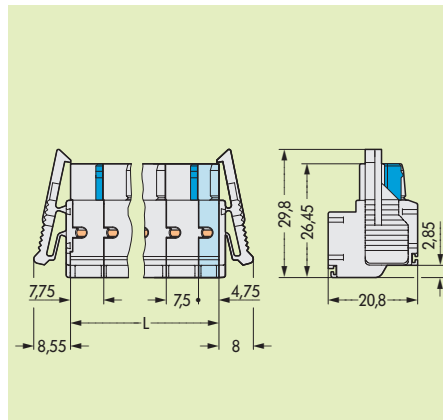
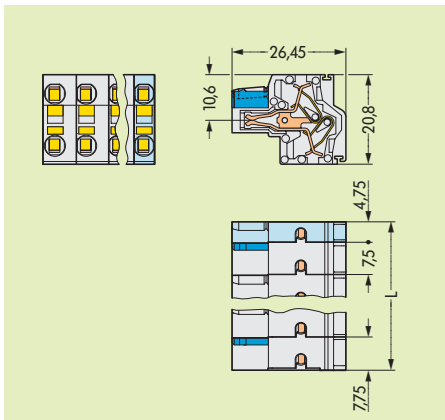


No. of poles	Item No.	No. of poles	Item No.
2-conductor female connectors with CAGE CLAMP®S connection, 100% protected against mismatching, with coding fingers, with two latches, light grey		2-conductor female connectors with CAGE CLAMP®S connection and locking device, 100% protected against mismatching, with coding fingers, with two latches, light grey	
2 (one latch only)	721-2202/026-000	2 (one latch only)	721-2202/037-000
3	721-2203/026-000	3	721-2203/037-000
4	721-2204/026-000	4	721-2204/037-000
5	721-2205/026-000	5	721-2205/037-000
6	721-2206/026-000	6	721-2206/037-000
7	721-2207/026-000	7	721-2207/037-000
8	721-2208/026-000	8	721-2208/037-000
9	721-2209/026-000	9	721-2209/037-000
10	721-2210/026-000	10	721-2210/037-000
11	721-2211/026-000	11	721-2211/037-000
12	721-2212/026-000	12	721-2212/037-000

Accessories

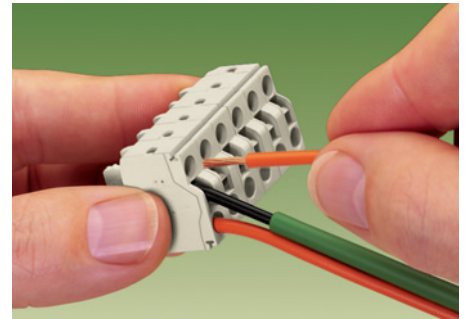
	Screwdriver with partially insulated shaft, (3.5 x 0.5) mm 210-620		Screwdriver with partially insulated shaft, (3.5 x 0.5) mm 210-620
	Insulation stop, 5 pcs/strip 0.8 - 0.2 mm ² ① (white) 231-673 0.25 - 0.5 mm ² (light grey) 231-674 0.75 - 1 mm ² (dark grey) 231-675 ① 0.2 mm ² solid/0.14 mm ² f-st		Insulation stop, 5 pcs/strip 0.8 - 0.2 mm ² ① (white) 231-673 0.25 - 0.5 mm ² (light grey) 231-674 0.75 - 1 mm ² (dark grey) 231-675 ① 0.2 mm ² solid/0.14 mm ² f-st
	Marker strips, self-adhesive 1-16 (100x) 210-331/0750-0202		Marker strips, self-adhesive 1-16 (100x) 210-331/0750-0202

Dimensions (in mm) **L = (No. of poles - 2) x Pin spacing + 12.5 mm**



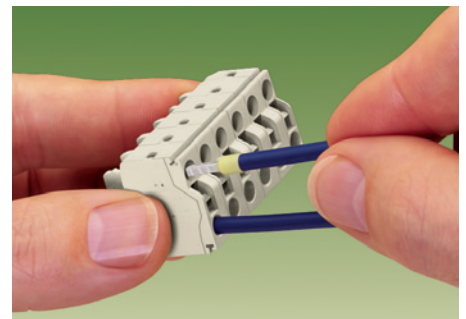
Looping conductors to connect one module to another is possible using female connectors equipped with 2 CAGE CLAMP®S contacts per pole. Therefore disconnecting one module will not affect the others in the circuit.

The female connectors can be plugged into headers with solder pins, are compatible with male connectors equipped with the CAGE CLAMP® connection and are 100% protected against mismatching.



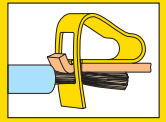
Handling the CAGE CLAMP®S spring is done in the same easy and obvious way as the CAGE CLAMP® spring. The screwdriver is introduced in the operating slot up to the stop and holds the CAGE CLAMP®S spring open so that the conductor can be inserted. When the screwdriver has been removed the conductor is clamped safely.

Solid and fine-stranded conductors < 0.5 mm²/AWG 20 are connected and removed using a screwdriver.



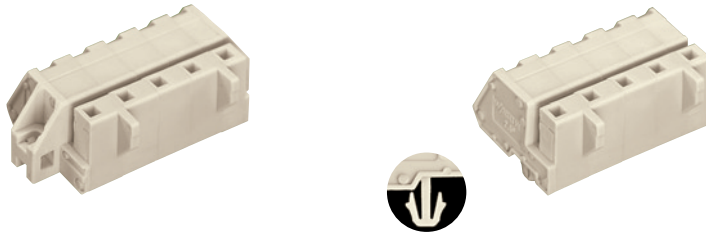
Solid conductors ≥ 0.5 mm²/AWG 20 as well as flexible conductors with crimped ferrules can be inserted directly into the clamping unit. Touch contacting is possible inserting test probes into the test slots

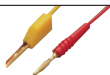
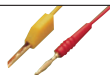
Angled Female Connectors for Panel Mounting and CAGE CLAMP®, 100 % Protected against Mismatching, Pin Spacing 7.5 mm/0.295 in

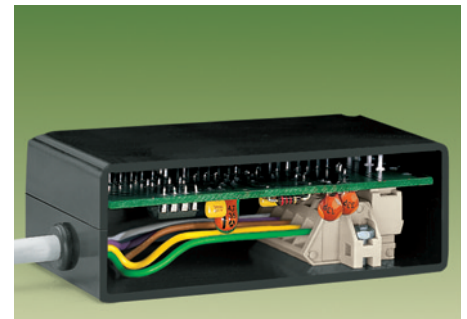


6
27

Pin spacing 7.5 mm/0.295 in, light grey 0.08 – 2.5 mm ² AWG 28 – 12 400 V/6 kV/3 300 V, 15 A 12 A 300 V, 15 A 8 – 9 mm / 0.33 in *	Pin spacing 7.5 mm/0.295 in, light grey 0.08 – 2.5 mm ² AWG 28 – 12 400 V/6 kV/3 300 V, 15 A 12 A 300 V, 15 A 8 – 9 mm / 0.33 in *	
---	---	--

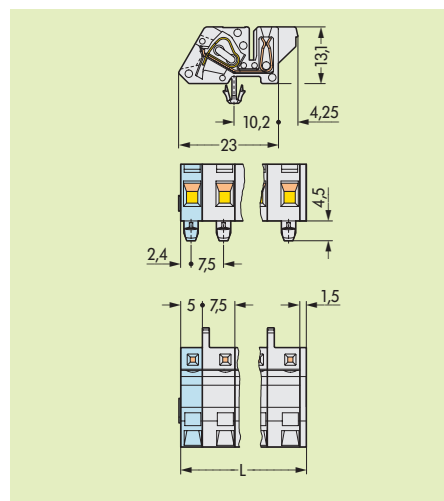
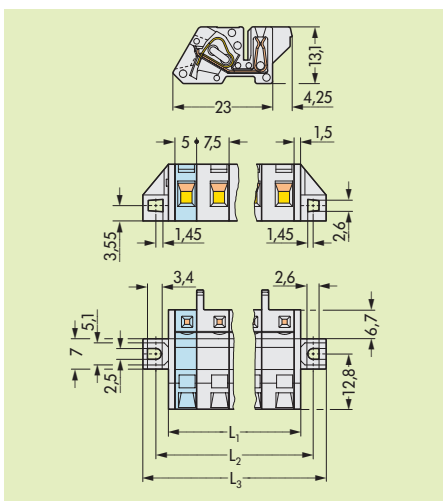


No. of poles	Item No.	No. of poles	Item No.
Angled female connectors with CAGE CLAMP® and fixing flanges for panel mounting, 100 % protected against mismatching, for screw fixing or similar methods, with 2 latches, light grey		Angled female connectors with CAGE CLAMP® and snap-in mounting feet for panel mounting, 100 % protected against mismatching, plate thickness 0.6 – 1.2 mm, fixing hole Ø 3.5 mm, light grey	
2	721-332/031-000	2	721-332/008-000
3	721-333/031-000	3	721-333/008-000
4	721-334/031-000	4	721-334/008-000
5	721-335/031-000	5	721-335/008-000
6	721-336/031-000	6	721-336/008-000
7	721-337/031-000	7	721-337/008-000
8	721-338/031-000	8	721-338/008-000
9	721-339/031-000	9	721-339/008-000
10	721-340/031-000	10	721-340/008-000
11	721-341/031-000	11	721-341/008-000
12	721-342/031-000	12	721-342/008-000
Accessories			
	Test plug, w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137		Test plug, w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137
	Countersunk screw, M 2 x 12, not offered by WAGO		
	Marker strips, self-adhesive 1–16 (100 x) 210-331/0750-0202		Marker strips, self-adhesive 1–16 (100 x) 210-331/0750-0202
Dimensions (in mm)			



Angled female connector. Use straight pin header on PCB in narrow housings.

6



$$\begin{aligned}
 L_1 &= (\text{No. of poles} - 1) \times \text{pin spacing} + 5 \text{ mm} + 3 \text{ mm} \\
 L_2 &= (\text{No. of poles} - 1) \times \text{pin spacing} + 5 \text{ mm} + 8.8 \text{ mm} \\
 L_3 &= (\text{No. of poles} - 1) \times \text{pin spacing} + 5 \text{ mm} + 14.8 \text{ mm} \\
 L &= (\text{No. of poles} - 1) \times \text{pin spacing} + 5 \text{ mm} + 1.5 \text{ mm}
 \end{aligned}$$

* Approvals with corresponding ratings see pages 12.3 ff.