

COMPACT Splicing Connector for All Conductor Types 4 mm²; 221 Series

Technical Data

0.2 ... 4 mm ² "s+str"	24 ... 12 AWG
0.14 ... 4 mm ² "f-st"	
450 V/4 kV/2 ①	600 V, 20 A ②
I _N 32 A	
11 mm / 0.43 inch	

Technical Data

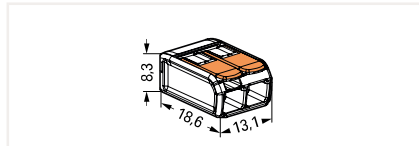
0.2 ... 4 mm ² "s+str"	24 ... 12 AWG
0.14 ... 4 mm ² "f-st"	
450 V/4 kV/2 ①	600 V, 20 A ②
I _N 32 A	
11 mm / 0.43 inch	

- ① 450 V = rated voltage
4 kV = rated impulse voltage
2 = pollution degree
(see Section 14)

Approvals and corresponding ratings,
visit www.wago.com



Dimensions in mm

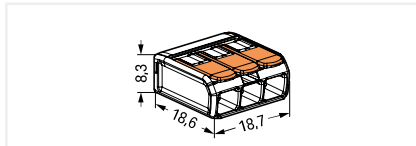


COMPACT splicing connector for all conductor types;
2-wire connector; with levers; Continuous operating
temperature (max.): 105 °C; Surrounding air temperature:
85 °C (T85)

	Item No.	Pack. Unit
	221-412	1000 (100)



Dimensions in mm



COMPACT splicing connector for all conductor types;
3-wire connector; with levers; Continuous operating
temperature (max.): 105 °C; Surrounding air temperature:
85 °C (T85)

	Item No.	Pack. Unit
	221-413	500 (50)



Compact, lever-operated splicing connectors:

Tool-free connection of up to five stripped, fine-stranded
conductors from 0.14 ... 4 mm², as well as solid or
stranded conductors from 0.2 ... 4 mm² (24 ... 12 AWG).

How these work:

Pull up an orange lever to open the clamping unit. Then
insert the conductor and push the lever back down, flush
with the connector housing.

Safety:

The specially designed rest position of the lever reliably
prevents accidental unclamping of a connected conduc-
tor.

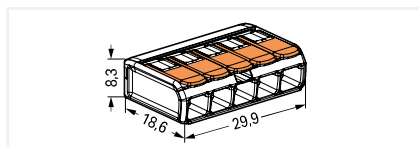
Application safety, for any type of conductor (solid,
stranded, fine-stranded), is confirmed by approvals like
ENEC or UL.

ENEC is the European mark for electrical products that
demonstrates compliance with European safety stan-
dards. The ENEC mark is subjected to the same EN stan-
dards as the VDE mark.

While the VDE mark is only permitted in Germany, the
ENEC mark is accepted in more than 20 European coun-
tries.



Dimensions in mm



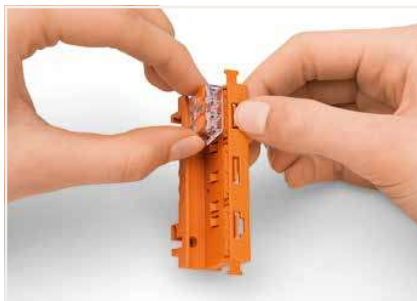
COMPACT splicing connector for all conductor types;
5-wire connector; with levers; Continuous operating
temperature (max.): 105 °C; Surrounding air temperature:
85 °C (T85)

	Item No.	Pack. Unit
	221-415	250 (25)

Mounting Carrier 221 Series Installation



Inserting a connector into the mounting carrier.



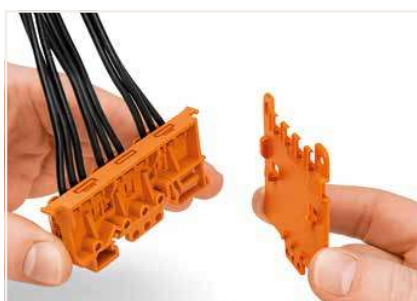
Removing a connector from the mounting carrier.



Removing a conductor.



Testing connectors via test slots on top of the carrier.



Securing a strain relief plate (222-505) to the mounting carrier.



Snapping the angled DIN-rail adapter (222-510) onto the mounting carrier.



Strain relief via cable ties on the mounting carrier (transverse to the connectors' wiring direction) – clamping units labeled via marking strips (210-334)



Vertical mounting with strain relief plate on DIN-35 rail



Horizontal mounting on DIN-35 rail using an angled DIN-rail adapter

12



Horizontal screw mounting with strain relief plate on a flat surface



Vertical screw mounting with strain relief plate on a flat surface

Mounting Carrier
221 Series

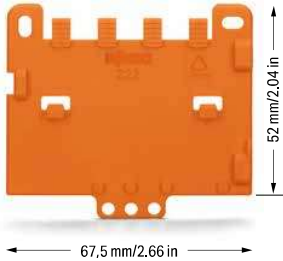


77,6 mm/3.06 in

25,5 mm/1 in

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²); 17,5 mm wide

Color	Item No.	Pack. Unit
orange	221-500	50 (10)

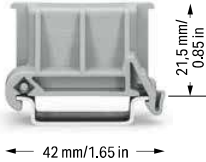


67,5 mm/2.66 in

52 mm/2.04 in

Strain relief plate; for mounting carrier (221 or 222 Series); snaps on to mounting carrier; 4 mm thick

Color	Item No.	Pack. Unit
orange	222-505	50 (10)



42 mm/1.65 in

21,5 mm/0.85 in

Angled DIN-rail adapter; in combination with mounting carrier (221-500 or 222-500) for DIN-35 rail mounting; 18,5 mm wide

Color	Item No.	Pack. Unit
gray	222-510	50 (10)

Accessories; item-specific

Marking strip; 5 mm high; 48 self-adhesive strips per card; plain

	white	210-334 100

Mounting Carrier; for Single Connectors

221 Series

Installation



Inserting a connector into the mounting carrier.



Removing a connector from the mounting carrier.



Inserting a conductor.



Use a cable tie to secure the conductors to the strain relief plate.



Labeling the mounting carrier.



Testing a connector mounted on the carrier via test slot.



The strain relief plate can be removed.



Horizontal screw mounting



Vertical screw mounting

12



Horizontal mounting via snap-in foot



Vertical mounting via snap-in foot



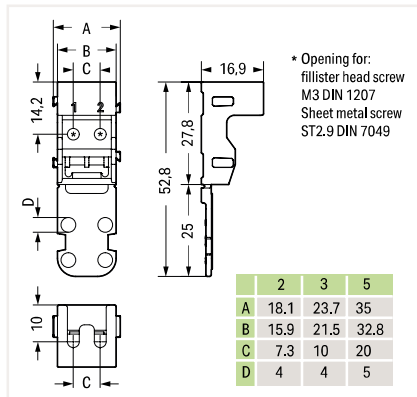
Connecting a light to the mains.

Mounting Carrier; for Single Connectors

221 Series



Dimensions in mm



Mounting carrier; for 2-wire connectors (4 mm²); for screw mounting
Dimensions from the surface (mm) W x H x D
18,1 x 16,9 x 52,8

Color	Item No.	Pack, Unit
○ white	221-502	50 (10)
● black	221-502/000-004	50 (10)

Mounting carrier; for 2-wire connectors (4 mm²); with snap-in mounting foot for horizontal mounting
Dimensions from the surface (mm) W x H x D
18,1 x 16,9 (+ 4,5 snap-in mounting foot) x 52,8

Color	Item No.	Pack, Unit
○ white	221-512	50 (10)
● black	221-512/000-004	50 (10)

Mounting carrier; for 2-wire connectors (4 mm²); with snap-in mounting foot for vertical mounting
Dimensions from the surface (mm) W x H x D
18,1 x 52,8 (+ 4,5 snap-in mounting foot) x 16,9

Color	Item No.	Pack, Unit
○ white	221-522	50 (10)
● black	221-522/000-004	50 (10)

More information on dimensions is available upon request.

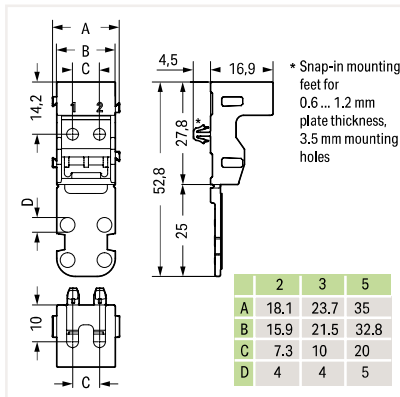
Accessories; item-specific

Marking strip; 5 mm high; 48 self-adhesive strips per card; plain

	white	210-334	100
--	-------	---------	-----



Dimensions in mm



Mounting carrier; for 3-wire connectors (4 mm²); for screw mounting
Dimensions from the surface (mm) W x H x D
18,1 x 16,9 x 52,8

Color	Item No.	Pack, Unit
○ white	221-503	50 (10)
● black	221-503/000-004	50 (10)

Mounting carrier; for 3-wire connectors (4 mm²); with snap-in mounting foot for horizontal mounting
Dimensions from the surface (mm) W x H x D
18,1 x 16,9 (+ 4,5 snap-in mounting foot) x 52,8

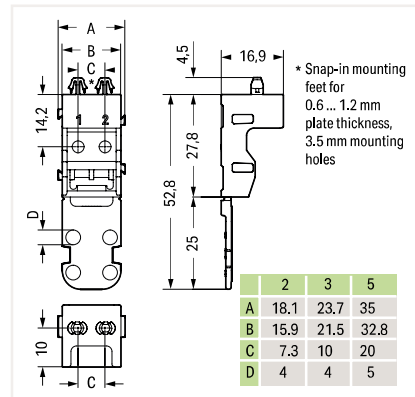
Color	Item No.	Pack, Unit
○ white	221-513	50 (10)
● black	221-513/000-004	50 (10)

Mounting carrier; for 3-wire connectors (4 mm²); with snap-in mounting foot for vertical mounting
Dimensions from the surface (mm) W x H x D
18,1 x 52,8 (+ 4,5 snap-in mounting foot) x 16,9

Color	Item No.	Pack, Unit
○ white	221-523	50 (10)
● black	221-523/000-004	50 (10)



Dimensions in mm



Mounting carrier; for 5-wire connectors (4 mm²); for screw mounting
Dimensions from the surface (mm) W x H x D
18,1 x 16,9 x 52,8

Color	Item No.	Pack, Unit
○ white	221-505	50 (10)
● black	221-505/000-004	50 (10)

Mounting carrier; for 5-wire connectors (4 mm²); with snap-in mounting foot for horizontal mounting
Dimensions from the surface (mm) W x H x D
18,1 x 16,9 (+ 4,5 snap-in mounting foot) x 52,8

Color	Item No.	Pack, Unit
○ white	221-515	50 (10)
● black	221-515/000-004	50 (10)

Mounting carrier; for 5-wire connectors (4 mm²); with snap-in mounting foot for vertical mounting
Dimensions from the surface (mm) W x H x D
18,1 x 52,8 (+ 4,5 snap-in mounting foot) x 16,9

Color	Item No.	Pack, Unit
○ white	221-525	50 (10)
● black	221-525/000-004	50 (10)