

COMPACT Splicing Connector for All Conductor Types and Mounting Carrier; for Ex eb Applications

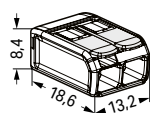
4 mm²; 221 Series

Technical Data

IEC / EN 60079-7	UL 60079-7
IECEX	Cl. I, Zn. 1, AEx eb IIC
Ex eb IIC Gb	CNR Ex eb IIC U
0.2 ... 4 mm² "s+str"	24 ... 12 AWG "s+st"
0.14 ... 4 mm² "f-st"	24 ... 12 AWG "f-st"
440 V (275 V) ①	440 V (275 V), 20 A, I_N ①
I_N 24.5 A	
Operating temperature: -55 ... +105 °C	
11 mm / 0.43 inch	



Dimensions in mm



COMPACT splicing connector; for all conductor types; for Ex eb applications; 2-conductor; with levers; transparent housing; operating temperature (max.): 105 °C

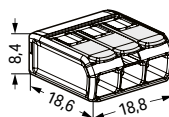
	Item No.	Pack. Unit
	221-482 ②	1000 (100)

Technical Data

IEC / EN 60079-7	UL 60079-7
IECEX	Cl. I, Zn. 1, AEx eb IIC
Ex eb IIC Gb	CNR Ex eb IIC U
0.2 ... 4 mm² "s+str"	24 ... 12 AWG "s+st"
0.14 ... 4 mm² "f-st"	24 ... 12 AWG "f-st"
440 V (275 V) ①	440 V (275 V), 20 A, I_N ①
I_N 32 A	
Operating temperature: -55 ... +105 °C	
11 mm / 0.43 inch	



Dimensions in mm



COMPACT splicing connector; for all conductor types; for Ex eb applications; 3-conductor; with levers; transparent housing; operating temperature (max.): 105 °C

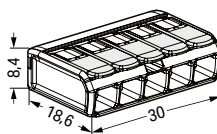
	Item No.	Pack. Unit
	221-483 ②	500 (50)



67,2 mm / 2.65 inch



Dimensions in mm



Mounting carrier; for 2-, 3- and 5-wire Ex splicing connectors (4 mm²); 17.5 mm wide

	Item No.	Pack. Unit
Color		
○ light gray	221-501	50 (10)
● blue	221-500/000-006 ③	50 (10)

Item-Specific Accessories

Marking strips; on reel; 6 mm wide; plain; self-adhesive; white

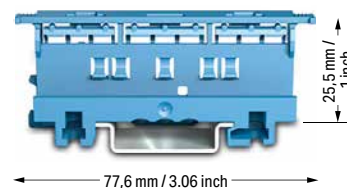
	Item No.	Pack. Unit
white	210-833	1

- The permissible operating voltage of the connector with carrier (440 V or 275 V) depends on the mounting type.
The mounting types for both 440 V and 275 V are shown on the "Description and Installation" page. If a mounting type for 275 V is used, this is the permissible working voltage.
- Only approved in conjunction with a mounting carrier (221-501). Other carriers are possible, see certificate (UL).
The connectors must be installed in an enclosure meeting the requirements of a recognized protection type per EN 60079-0, Section 1 or EN 60079-31. When installing the connectors in an enclosure of protection type "eb" (increased safety) per EN 60079-7, the clearances and creepage distances of Table 2 for this standard must be observed (for the use of accessories see point 1).
The connectors can be used both in Group II and Group I, as the standard requirements are identical in this case.
The use of these components requires a new assessment by a notified certification agency.
- Carriers with a blue insulated housing are suitable for Ex i applications. Both clearances and creepage distances for the protection type "intrinsic safety Ex i" must be observed.

Approvals and corresponding ratings, visit www.wago.com

Your benefits at a glance:

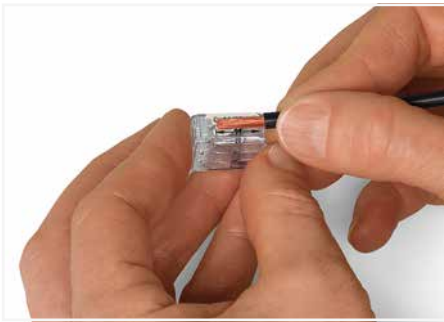
- New design possibilities for the manufacturers of junction boxes, luminaires and electronic devices for Ex eb areas
- Approval also possible with custom mounting solutions
- Easy to use: Pull the lever up, insert a conductor and push the lever back down – done.
- Easy-to-use design adds value for installers
- Time- and cost-saving spring pressure connection technology
- Vibration-proof and maintenance-free connection
- 100% touch-proof protection
- Connectors can be secured in position via mounting carriers according to standards



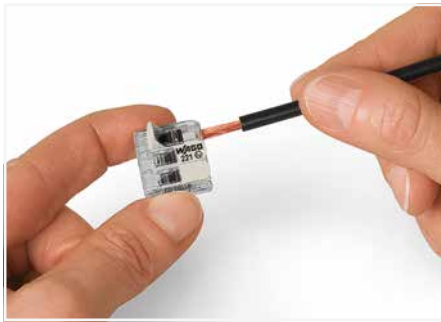
Carriers with a blue insulated housing are suitable for Ex i applications. Both clearances and creepage distances for the protection type "intrinsic safety Ex i" must be observed.

COMPACT Splicing Connectors for All Conductor Types and Mounting Carrier for Ex Splicing Connectors; for Ex eb Applications; 221 Series

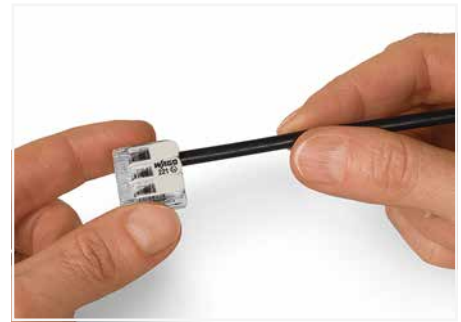
Description and Installation



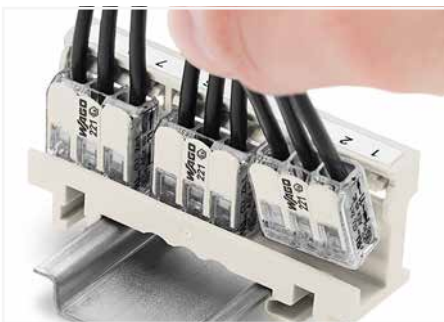
Strip conductor to 11 mm (0.43 inch).



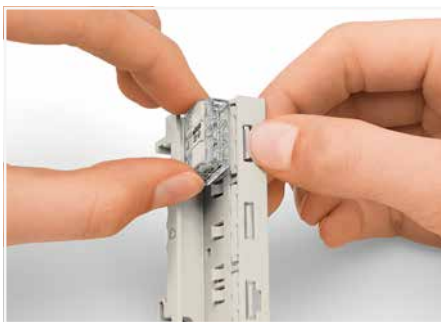
Termination: Lift the lever to open the clamping unit and insert a stripped conductor.



Then, lower the lever to close the clamp.



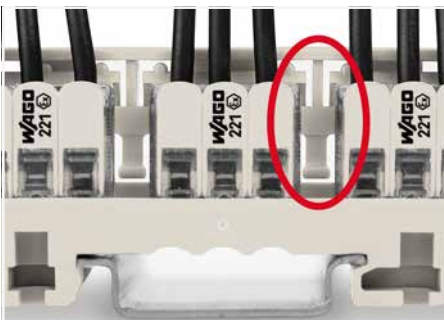
Inserting a connector into the mounting carrier.



Removing a connector from the mounting carrier.



Removing a conductor.



Mounting type (440 V)

A spacer integrated in the adapter can be seen between two connectors.



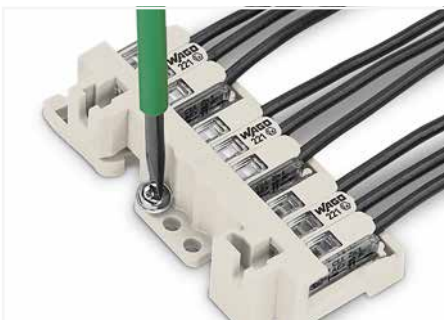
Mounting type (440 V)

Vertical mounting on DIN-35 rail



Mounting type (275 V)

A spacer integrated in the adapter **cannot** be seen between two connectors; the connector housings are close together.



Mounting type (440 V)

Horizontal screw mounting on a flat surface



Mounting type (440 V)

Mounting the carrier via non-conductive screws.



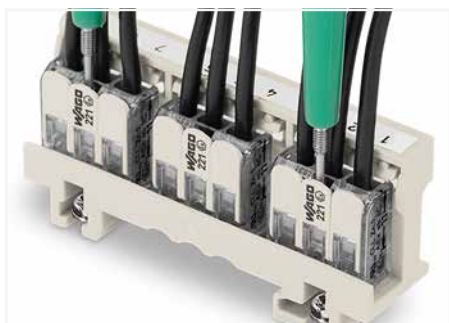
Mounting type (275 V)

Mounting the carrier using conductive screws.

CAGE CLAMP® terminates the following copper conductors:
solid "s" stranded "st"

fine-stranded "f-st",
also with tinned
single strands

fine-stranded,
tip-bonded



Easily test inserted connectors in the carrier – however they are mounted.



Wiring example in an Ex e junction box
Labeling is performed via marking strips (210-334) and pen or continuous labels (210-834), which is printed via Smart Printer (258-5000).



Carriers with a blue insulated housing are suitable for Ex i applications. Both clearances and creepage distances for the protection type "intrinsic safety Ex i" must be observed.