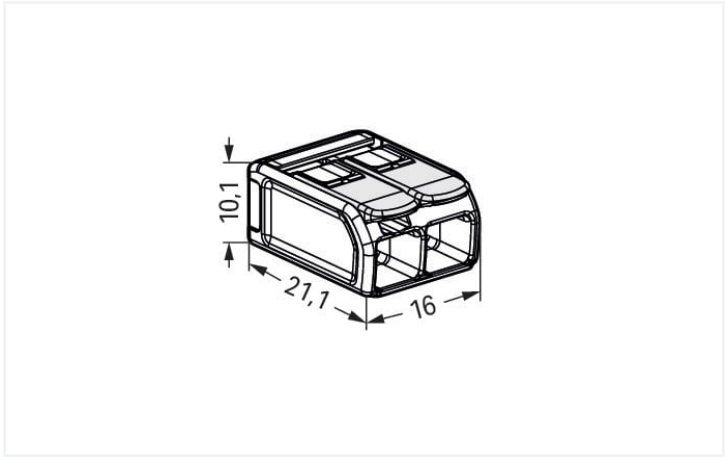


**Data Sheet | Item Number: 221-682**  
**COMPACT Splicing Connector; for all conductor types; for Ex e applications; max. 6 mm²; 2-conductor; with levers; transparent housing; Operating temperature (max.): 105 °C; 6,00 mm²; transparent**  
<https://www.wago.com/221-682>



Color: ☐ transparent



Dimensions in mm



Your benefits:

- Ease of use – pull the lever up, insert a conductor and push the lever back down
- Available as 2-, 3- and 5-wire connectors
- Easily terminate conductors from 0.5 to 6 mm²
- Connection of all conductor types
- Time savings for installers and device manufacturers
- Quickly install devices with higher power consumption
- Safely install long cable runs with larger conductor cross sections
- Mounting carrier for installation conforms to standards
- Working voltages of 275 V or 440 V
- Custom carriers are possible
- ATEX (Ex 2 II G), IECEx (Ex eb IIC Gb) Zone 1, 2
- IECEX (Ex eb IIC Gb), American Ex (AEx eb IICGb) / Class 1, Zone 1

Notes	
Safety information	The permissible operating voltage of the connector with carrier (440 V or 275 V) depends on the mounting type.
Safety information 2	Only approved in conjunction with a mounting carrier (221-511). Other carriers are possible, see certificate/file. 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. See point 1 for the use of accessories. 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.

Electrical data				
Ratings per		IEC/EN 60079-7		
Overvoltage category		III	III	II
Pollution degree		3	2	2
Nominal voltage		-	-	-
Rated surge voltage		-	-	-
Rated current		-	-	-

Approvals per		UL 60079		
Use group		B	C	D
Rated voltage		-	440 V	-
Rated current		-	30 A	-

Ex information	
Ratings per	ATEX: PTB 19 ATEX 1001 U / IECEx: PTB 19.001 1U (Ex eb IIC Gb)
Rated voltage EN (Ex e II)	440 V
Rated current (Ex e II)	37 A

Connection data	
Connection points	2
Total number of potentials	1

Connection 1	
Connection technology	CAGE CLAMP®
Actuation type	Lever
Connectable conductor materials	Copper
Nominal cross-section	6 mm² / 10 AWG
Solid conductor	0.5 ... 6 mm² / 20 ... 10 AWG
Stranded conductor	0.5 ... 6 mm² / 20 ... 10 AWG
Fine-stranded conductor	0.5 ... 6 mm² / 20 ... 10 AWG
Strip length	12 ... 14 mm / 0.47 ... 0.55 inches
Wiring direction	Side-entry wiring



Physical data		
Width	16 mm / 0.63 inches	
Height	10.1 mm / 0.398 inches	
Depth	21.1 mm / 0.831 inches	



Material data		
Note (material data)	<a href="#">Information on material specifications can be found here</a>	
Color	transparent	
Material group	IIIa	
Insulation material	Polycarbonate (PC)	
Flammability class per UL94	V2	
Fire load	0.066 MJ	
Actuator color	light gray	
Weight	3 g	

Environmental requirements		
Ambient temperature (storage)	-40 ... +60 °C	
Continuous operating temperature	-55 ... +105 °C	

Commercial data		
ETIM 8.0	EC000446	
ETIM 7.0	EC000446	
PU (SPU)	500 (50) pcs	
Packaging type	Box	
Country of origin	CH	
GTIN	4055143860390	
Customs tariff number	85369010000	

Environmental Product Compliance		
RoHS Compliance Status	Compliant, No Exemption	

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
 			Approval	Standard	Certificate Name
Approval	Standard	Certificate Name	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CB DEKRA Certification B.V.	IEC 60998	NL-81003	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CCC CNEX	GB/T 3836.3	2020312313000185 (Ex eb IIC Gb, Ex eb I Mb)			
ENEC 05 DEKRA Certification B.V.	EN 60998	71-123784			
UL Underwriters Laboratories Inc.	UL 486C	E69654			



Approvals for marine applications



Approval	Standard	Certificate Name
LR Lloyds Register	EN 60998	LR22207029TA

Approvals for hazardous areas



Approval	Standard	Certificate Name
AEx Underwriters Laboratories Inc.	UL 60079	E185892 (AEx eb IIC resp. Ex eb IIC)
IECEx Physikalisch Technische Bundesanstalt	IEC 60079-0	IECEx PTB 19.001 1U (EX eb IIC Gb, Ex eb I Mb)

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 221-682



Documentation

Additional Information
Technical Section

pdf  
2142.18 KB



Bid Text
ausschreiben.de 221-682



CAD/CAE-Data

CAD data
2D/3D Models 221-682



CAE data
EPLAN Data Portal 221-682
ZUKEN Portal 221-682



1 Compatible Products

1.1 Optional Accessories

1.1.1 Mounting adapter

1.1.1.1 Mounting accessories

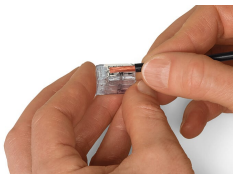


Item No.: 221-510/000-006  
Mounting carrier; 221 Series - 6 mm²; for  
DIN-35 rail mounting/screw mounting;  
blue

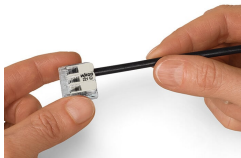
Item No.: 221-511  
Mounting carrier; for Ex applications; 221  
Series - 6 mm²; for DIN-35 rail mounting/  
screw mounting; light gray

Installation Notes

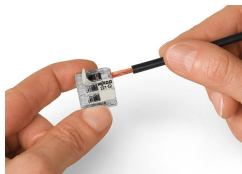
Conductor termination



Strip conductor to 11 mm (0.43 inch).

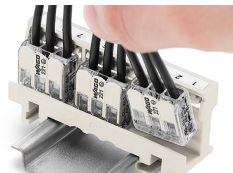


Then, lower the lever to close the clamp.



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

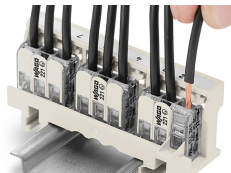
Installation



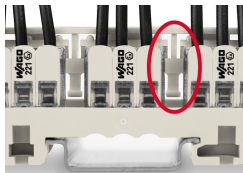
Inserting a connector into the mounting carrier.



Removing a connector from the mounting carrier.



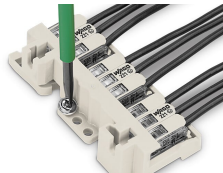
Removing a conductor.



Mounting type (440 V)  
Using spacers between the connectors.



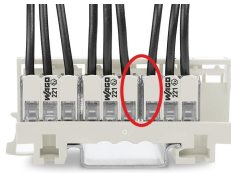
Mounting type (440 V)  
Vertical mounting on DIN-35 rail



Mounting type (440 V)  
Horizontal screw mounting on a flat surface



Mounting type (440 V)  
Mounting the carrier via non-conductive screws.

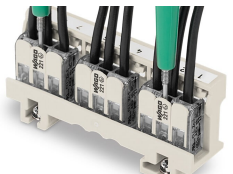


Mounting type (275 V)  
No spacers are used between the connectors.



Mounting type (275 V)  
Mounting the carrier using conductive screws.

Testing



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