

**Data sheet | Item number: 221-483**

COMPACT Splicing Connector; for all conductor types; for Ex e applications;  
max. 4 mm<sup>2</sup>; 3-conductor; with levers; transparent housing; Operating  
temperature (max.): 105 °C; 4,00 mm<sup>2</sup>; transparent

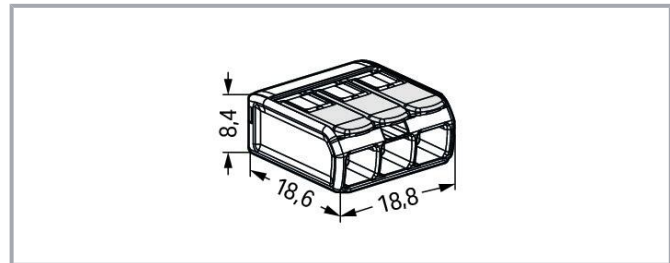
[www.wago.com/221-483](http://www.wago.com/221-483)



Subject to changes. Please also observe the further product documentation!

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## Item description

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 0.14 to 4 mm<sup>2</sup>
- Connect solid, stranded and fine-stranded conductors
- Save time 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

## Data

### 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 (221-501).

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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, GB/T 3836.1 Section 1 or EN 60079-31, GB/T 3836.31. When installing the connectors in an enclosure of protection type "e" (increased safety) per EN 60079-7, GB/T 3836.1, 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

Ratings per	IEC/EN 60079-7
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### Ratings per UL

Approvals per	UL 60079
Rated voltage UL (Use Group C)	440 V
Rated current UL (Use Group C)	20 A

### Ex information

Ratings per	ATEX: PTB 18 ATEX 1019 U / IECEx: PTB 18.0045U (Ex eb IIC Gb)
Rated voltage EN (Ex e II)	440 V
Rated current (Ex e II)	32 A

### Connection data

Connection points	3
Total number of potentials	1

### Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Lever
Connectable conductor materials	Copper
Nominal cross-section	4 mm² / 12 AWG
Solid conductor	0.2 ... 4 mm² / 24 ... 12 AWG
Stranded conductor	0.2 ... 4 mm² / 24 ... 12 AWG

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Fine-stranded conductor	0.14 ... 4 mm <sup>2</sup> / 24 ... 12 AWG
Strip length	11 mm / 0.43 inches
Wiring direction	Side-entry wiring

## Physical data

Width	18.8 mm / 0.74 inches
Height	8.6 mm / 0.327 inches
Depth	18.8 mm / 0.732 inches

## Material data

Note (material data)	Information on material specifications can be found here
Color	transparent
Flammability class per UL94	V2
Fire load	0.064 MJ
Actuator color	light gray
Weight	2.7 g

## Environmental requirements

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

## Commercial data

eCl@ss 10.0	27-14-11-04
eCl@ss 9.0	27-14-11-04
ETIM 8.0	EC000446
ETIM 7.0	EC000446
PU (SPU)	500 (50) pcs
Packaging type	box
Country of origin	DE
GTIN	4055143837347
Customs tariff number	85369010000

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates


### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	EN 60998	NTR NL-7990
	<b>ENEC 05</b> DEKRA Certification B.V.	EN 60669, EN 60998	71-127529
	<b>UL</b> Underwriters Laboratories Inc.	UL 486C	E69654

### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>ATEX-Attestation of Conformity</b> WAGO GmbH & Co. KG	-	-
	<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-
	<b>UK-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>LR</b> Lloyds Register	EN 60998	LR22207029TA

### Approvals for hazardous areas





Logo	Approval	Additional Approval Text	Certificate name
	<b>AEx</b> Underwriters Laboratories Inc.	UL 60079	E185892 (AEx eb IIC resp. Ex eb IIC)

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	CCC CNEX	GB/T 3836.3	2020312313000184 (Ex eb IIC Gb, Ex eb I Mb)
	EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	RU C-DE.AM02.B. 00127/19 (Ex e IIC Gb U)
	IECEX Physikalisch Technische Bundesanstalt	IEC 60079-0	IECEX PTB 18.0045U (Ex eb IIC Gb, Ex eb I Mb)
	INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079	TÜV 19.1781 U

## Optional accessories

### Mounting adapter

Mounting accessories			
	Item no.: 221-501 Mounting carrier; for Ex applications; 221 Series - 4 mm <sup>2</sup> ; for DIN-35 rail mounting/screw mounting; light gray	<a href="http://www.wago.com/221-501">www.wago.com/221-501</a>	
	Item no.: 221-500/000-006 Mounting carrier; 221 Series - 4 mm <sup>2</sup> ; for DIN-35 rail mounting/screw mounting; blue	<a href="http://www.wago.com/221-500/000-006">www.wago.com/221-500/000-006</a>	

## Downloads

### Documentation

#### Bid Text

221-483 X81 - Datei	2019 May 21	xml 4.2 kB	Download
221-483 docx - Datei	2019 May 21	docx 16.4 kB	Download

ausschreiben.de 221-483

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	URL	Download
<b>System Description</b>		
System Description 221-482, 221-483, 221-485	pdf	Download
System Description 221-482, 221-483, 221-485	1.2 MB	
<b>CAD/CAE-Data</b>		
<b>CAD data</b>		
2D/3D Models 221-483	URL	Download
<b>CAE data</b>		
ZUKEN Portal 221-483	URL	Download
EPLAN Data Portal 221-483	URL	Download
<b>Asset Administration Shell</b>		
Asset Administration Shell 221-483	URL	Download

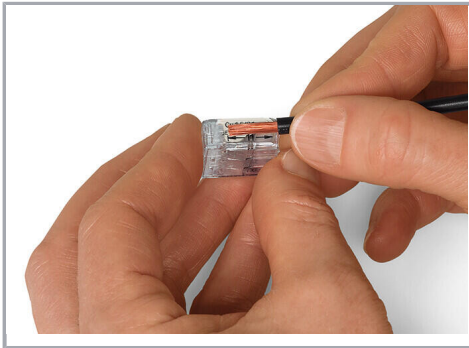
**Environmental Product Compliance**

<b>Compliance Search</b>		
Environmental Product Compliance 221-483	URL	Download
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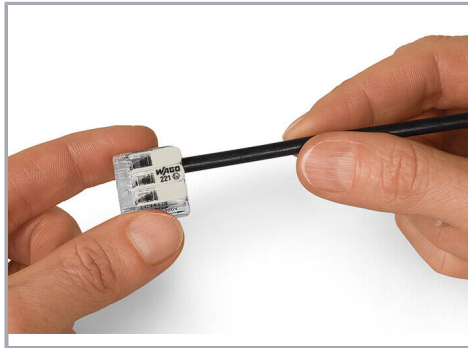
**Installation Notes**

**Conductor termination**

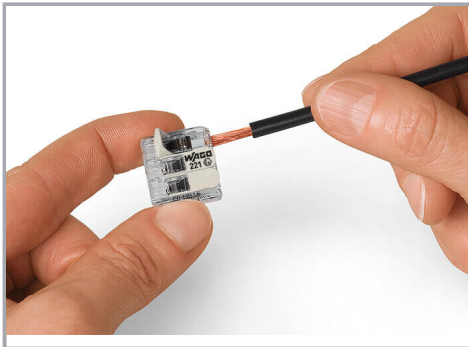
Subject to changes. Please also observe the further product documentation!



Strip conductor to 11 mm (0.43 inch).

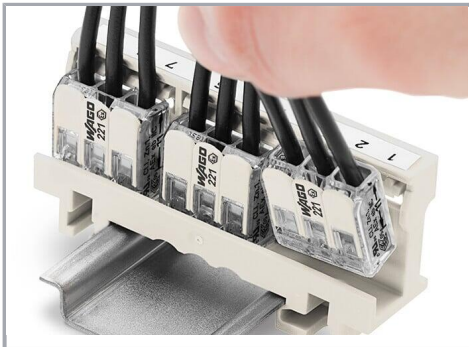


Then, lower the lever to close the clamp.

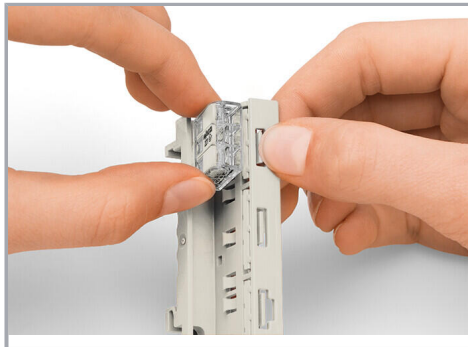


Termination: Lift the lever to open the clamping unit and insert a stripped conductor.

## Installation



Inserting a connector into the mounting carrier.



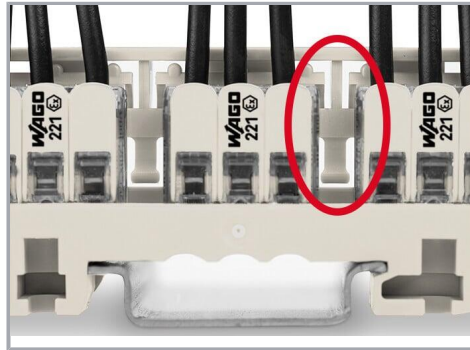
Removing a connector from the mounting carrier.

Subject to changes. Please also observe the further product documentation!





Removing a conductor.



Mounting type (440 V)

Using spacers between the connectors.



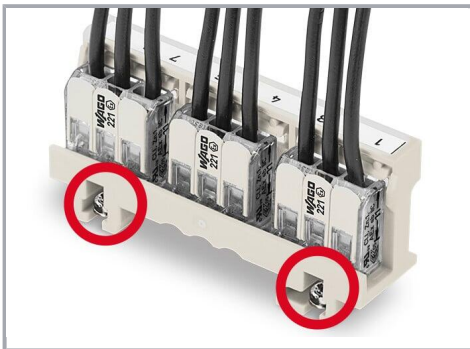
Mounting type (440 V)

Vertical mounting on DIN-35 rail



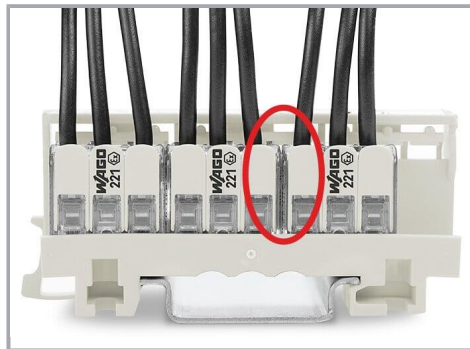
Mounting type (440 V)

Horizontal screw mounting on a flat surface



Mounting type (440 V)

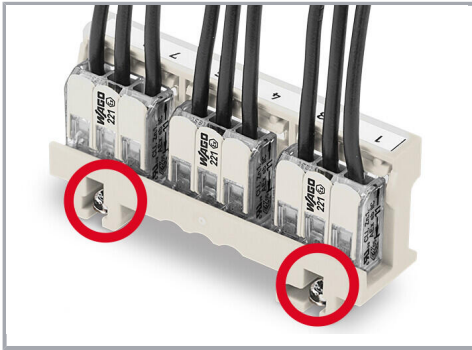
Mounting the carrier via non-conductive screws.



Mounting type (275 V)

No spacers are used between the connectors.

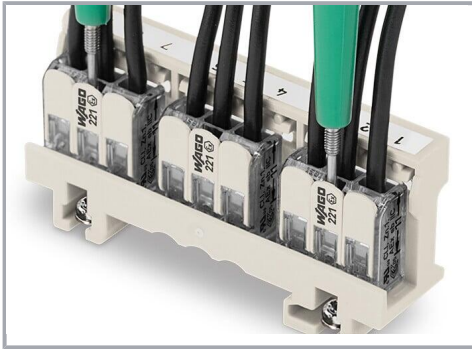
Subject to changes. Please also observe the further product documentation!



#### Mounting type (275 V)

Mounting the carrier using conductive screws.

#### Testing



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

Subject to changes. Please also observe the further product documentation!