

Data sheet | Item number: 221-485

COMPACT Splicing Connector; for all conductor types; for Ex e applications;  
max. 4 mm<sup>2</sup>; 5-conductor; with levers; transparent housing; Operating  
temperature (max.): 105 °C; 4,00 mm<sup>2</sup>; transparent



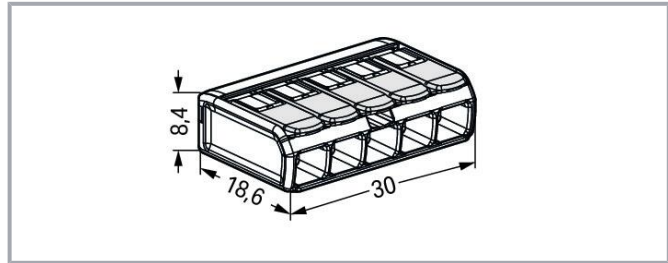
[www.wago.com/221-485](http://www.wago.com/221-485)



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

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## 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, 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

Ratings per	IEC/EN 60079-7
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### Ratings per UL 1059

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	5
Total number of potentials	1

## Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Lever
Connectable conductor materials	Copper
Nominal cross-section	4 mm <sup>2</sup> / 12 AWG
Solid conductor	0.2 ... 4 mm <sup>2</sup> / 24 ... 12 AWG
Stranded conductor	0.2 ... 4 mm <sup>2</sup> / 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	30 mm / 1.181 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	0.089 MJ
Actuator color	light gray
Weight	4.4 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)	250 (25) pcs
Packaging type	box
Country of origin	DE
GTIN	4055143837330
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-7827
	<b>CCC</b> CNEX	GB/T 3836.3	2020312313000184 (Ex eb IIC Gb, Ex eb I Mb)
	<b>ENEC 05</b> DEKRA Certification B.V.	EN 60998	71-113253 REV.1
	<b>UL</b> Underwriters Laboratories Inc.	UL 486C	E69654

### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<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>	UL 60079	E185892 (AEx eb IIC)

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

Underwriters Laboratories Inc.



resp. Ex eb IIC)



	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)

## Optional accessories

### Mounting adapter

Mounting accessories			
	<b>Item no.: 221-501</b>	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>
	<b>Item no.: 221-500/000-006</b>	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

221-485 docx - Datei	2019 May 21	docx 16.4 kB	Download
221-485 X81 - Datei	2019 May 21	xml 4.2 kB	Download
ausschreiben.de 221-485		URL	Download

#### System Description

System Description 221-482, 221-483, 221-485	pdf	Download
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Subject to changes. Please also observe the further product documentation!

## CAD/CAE-Data

### CAE data

ZUKEN Portal 221-485	<a href="#">URL</a>	<a href="#">Download</a>
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EPLAN Data Portal 221-485	<a href="#">URL</a>	<a href="#">Download</a>
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### CAD data

2D/3D Models 221-485	<a href="#">URL</a>	<a href="#">Download</a>
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## Environmental Product Compliance

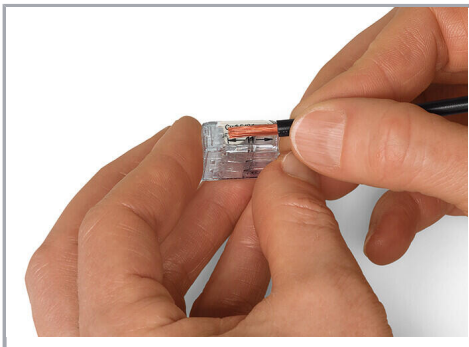
### Compliance Search

Environmental Product Compliance 221-485	<a href="#">URL</a>	<a href="#">Download</a>
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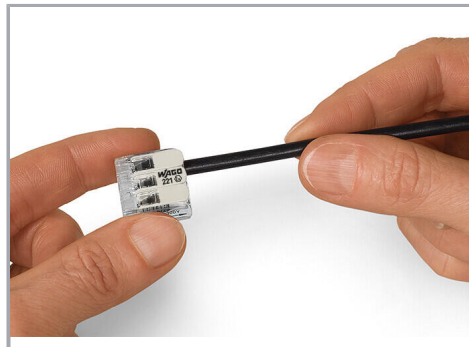
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## Installation Notes

### Conductor termination

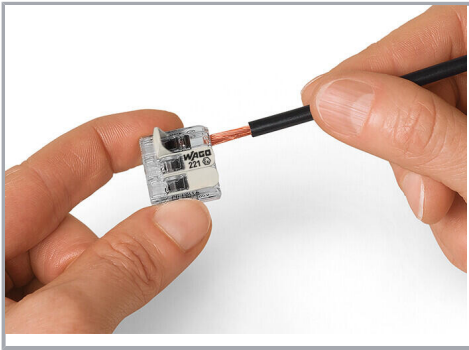


Strip conductor to 11 mm (0.43 inch).



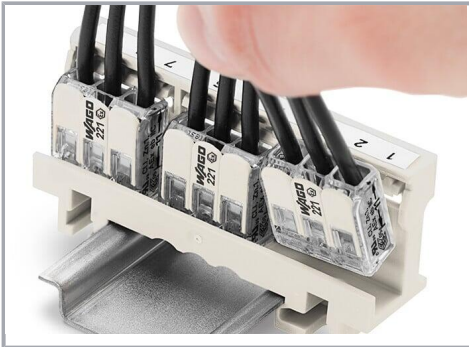
Then, lower the lever to close the clamp.

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

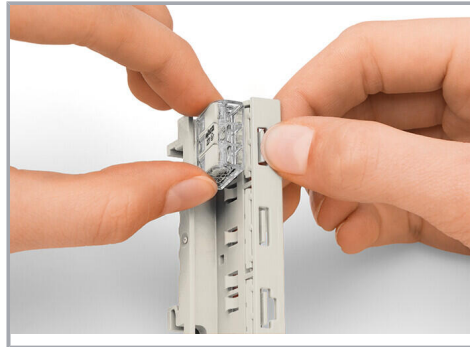


Termination: Lift the lever to open the clamping unit and insert a stripped conductor.

### Installation



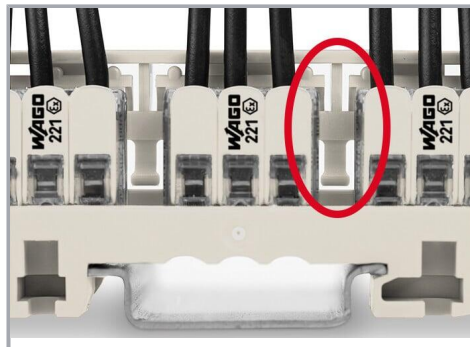
Inserting a connector into the mounting carrier.



Removing a connector from the mounting carrier.



Removing a conductor.



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

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





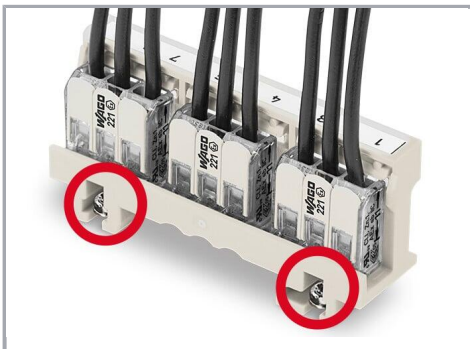
**Mounting type (440 V)**

Vertical mounting on DIN-35 rail



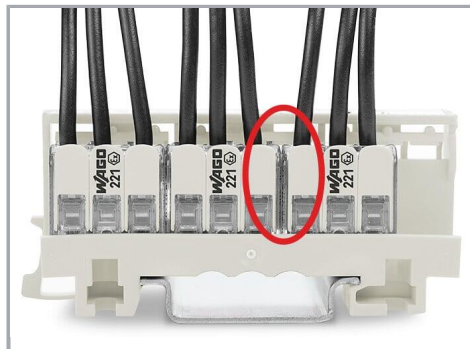
**Mounting type (440 V)**

Horizontal screw mounting on a flat surface



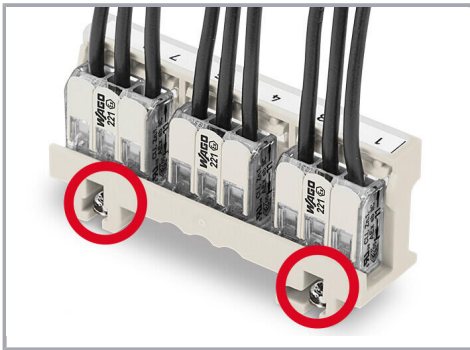
**Mounting type (440 V)**

Mounting the carrier via non-conductive screws.



**Mounting type (275 V)**

No spacers are used between the connectors.

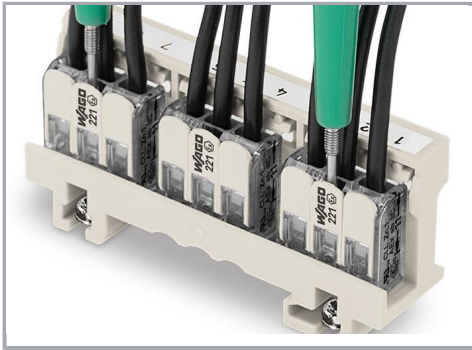


**Mounting type (275 V)**

Mounting the carrier using conductive screws.

**Testing**

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



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

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