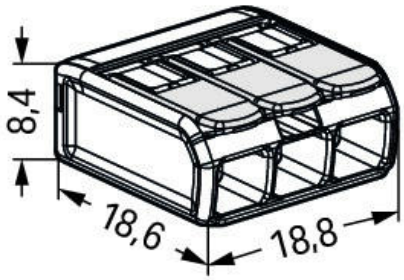
Data sheet | Item number: 221-483

COMPACT Splicing Connector; for all conductor types; for Ex e applications; max. 4 mm²; 3-conductor; with levers; transparent housing; Operating temperature (max.): 105 °C; 4,00 mm²; transparent

www.wago.com/221-483





RoHS ✓ Compliant

BOMcheck.net

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 mm²
- Connect solid, stranded and fine-stranded conductors
- Time savings for installers and device manufacturers
- Quickly install devices with higher levels of 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

Safety information 1:
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). Other carriers are possible, see certificate/file. The connectors must be installed in

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

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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.

Data
Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60079-7

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 technology	CAGE CLAMP®
Actuation type	Lever
Connectable conductor materials	Copper
Nominal cross-section	4 mm²
Solid conductor	0.2 … 4 mm² / 24 … 12 AWG
Stranded conductor	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor	0.14 … 4 mm² / 24 … 12 AWG
Strip length	11 mm / 0.43 inch
Total number of connection points	3
Total number of potentials	1
Wiring type	Side-entry wiring

Physical data

Width	18.8 mm / 0.74 inch

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Height	8.6 mm / 0.327 inch
Depth	18.8 mm / 0.732 inch

Material data

Color	transparent
Flammability class per UL94	V2
Fire load	0.036 MJ
Color of actuator	light gray
Weight	2.7 g

Environmental requirements

Continuous operating temperature	-55 … +105 °C

Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4055143837347
Customs tariff number	85369010000

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	AEx Underwriters Laboratories Inc.	UL 60079	20190228-E185892
	ATEX Physikalisch Technische Bundesanstalt	IEC 60079-0	PTB 18 ATEX 1019 U
Ex e IIC Gb Ex e I Mb	**CCCEx** CQST/CNEx	CNCA-C23-01	2020312313000184
	EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	RU C-DE.AM02.B. 00127/19
	IECEx	IEC 60079-0	IECEx PTB 18.0045

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IECEx	Physikalisch Technische Bundesanstalt	U (Ex eb IIC Gb)

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
CCA	**CCA** DEKRA Certification B.V.	EN 60998	NTR NL-7642
KEMA KEUR	**CCA** DEKRA Certification B.V.	EN 60998	71-101731
EAC Ex	**EAC** Brjansker Zertifizierungsstelle	TP TC 012/2011	RU C-DE.AM02.B.00127/19

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
LR	**LR** Lloyds Register	EN 60998	04/20013 (E8)

Compatible products

Mounting adapter

	**Item no.: 221-500/000-006** Mounting carrier; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; blue	www.wago.com/221-500/000-006
	**Item no.: 221-501** Mounting carrier; for Ex applications; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; light gray	www.wago.com/221-501

Downloads

Documentation

Bid Text

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221-483 X81 - Datei	21. 5. 2019	xml 4.2 kB	Download
221-483 docx - Datei	21. 5. 2019	docx 16.4 kB	Download

Additional Information

Technical explanations	3. 4. 2019	pdf 2.2 MB	Download

System Description

System Description 221-482, 221-483, 221-485 System Description 221-482, 221-483, 221-485		pdf 1.2 MB	Download

CAD/CAE-Data

CAD data

2D/3D Models 221-483	URL	Download

CAE data

ZUKEN Portal 221-483	URL	Download

Environmental Product Compliance

Compliance Search

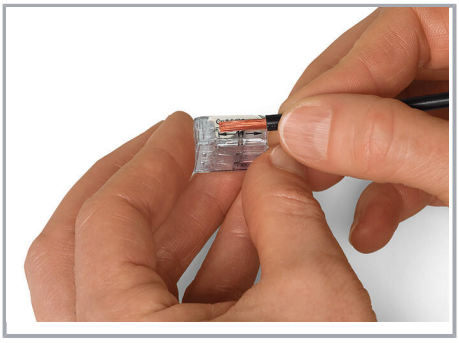
Environmental Product Compliance 221-483 COMPACT Splicing Connector; for all conductor types; for Ex e applications; max. 4 mm²; 3-conductor; with levers; transparent housing; Operating temperature (max.): 105 °C; 4,00 mm²; transparent	URL	Download

Installation Notes

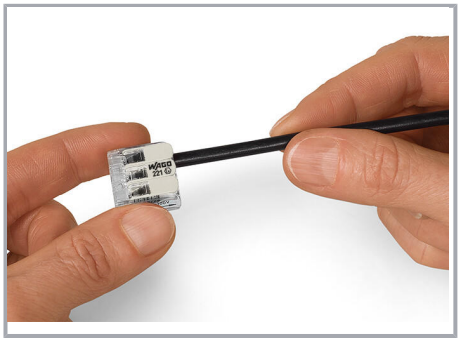
Conductor termination

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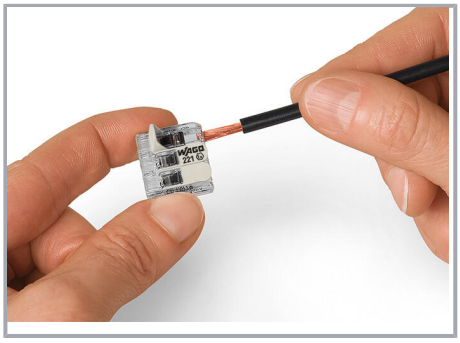
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Strip conductor to 11 mm (0.43 inch).

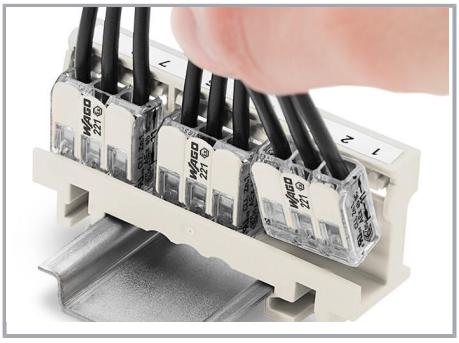


Then, lower the lever to close the clamp.

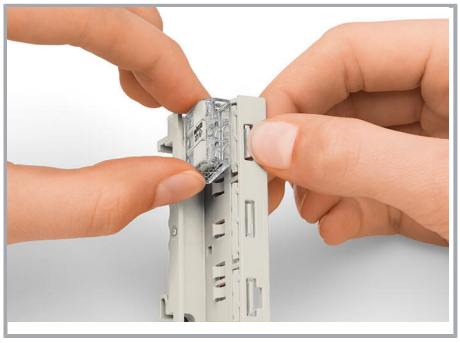


Termination: Lift the lever to open the clamping unit and insert a stripped conductor.

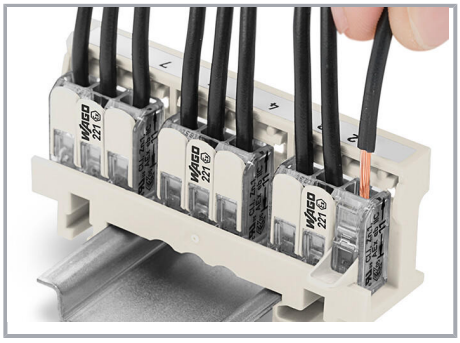
Installation



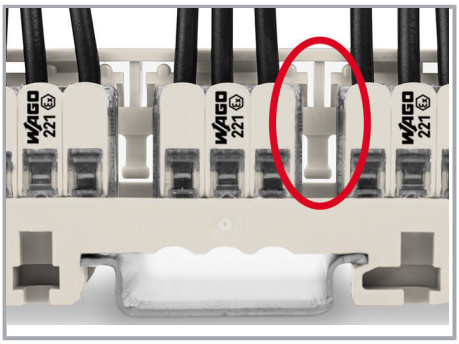
Inserting a connector into the mounting carrier.



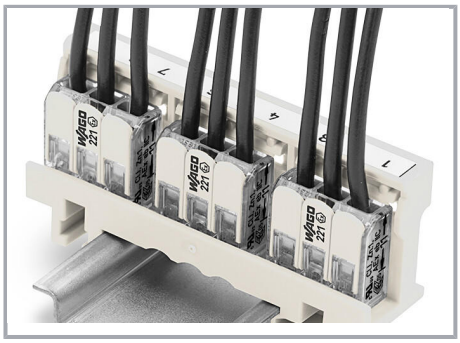
Removing a connector from the mounting carrier.



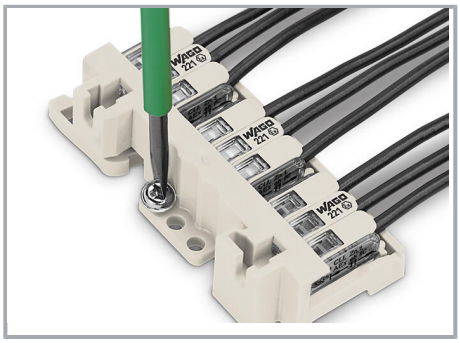
Removing a conductor.



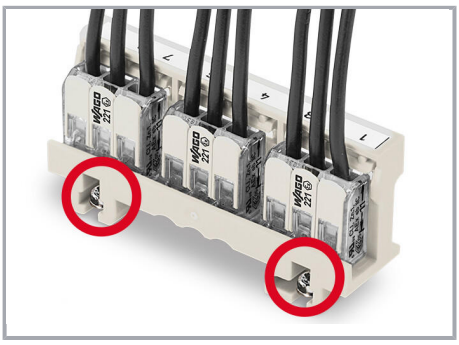
Mounting type (440 V)
Using spacers between the connectors.



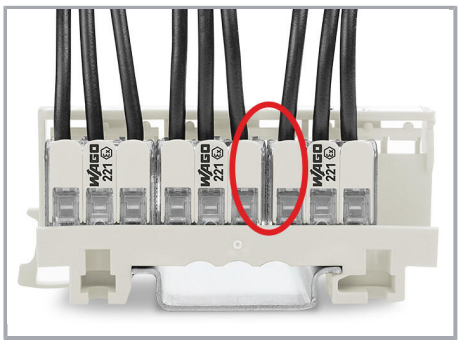
Mounting type (440 V)
Vertical mounting on DIN-35 rail



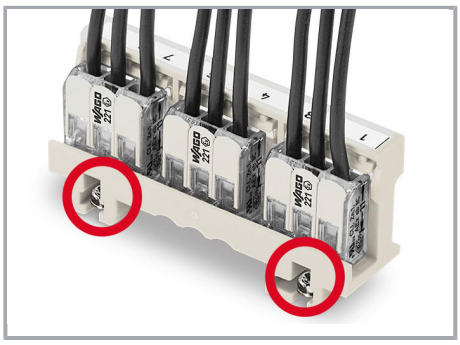
Mounting type (440 V)
Horizontal screw mounting on a flat surface



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

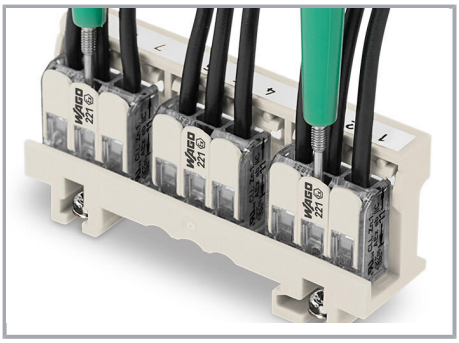


Mounting type (275 V)
No spacers are used between the connectors.



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

Testing



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

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