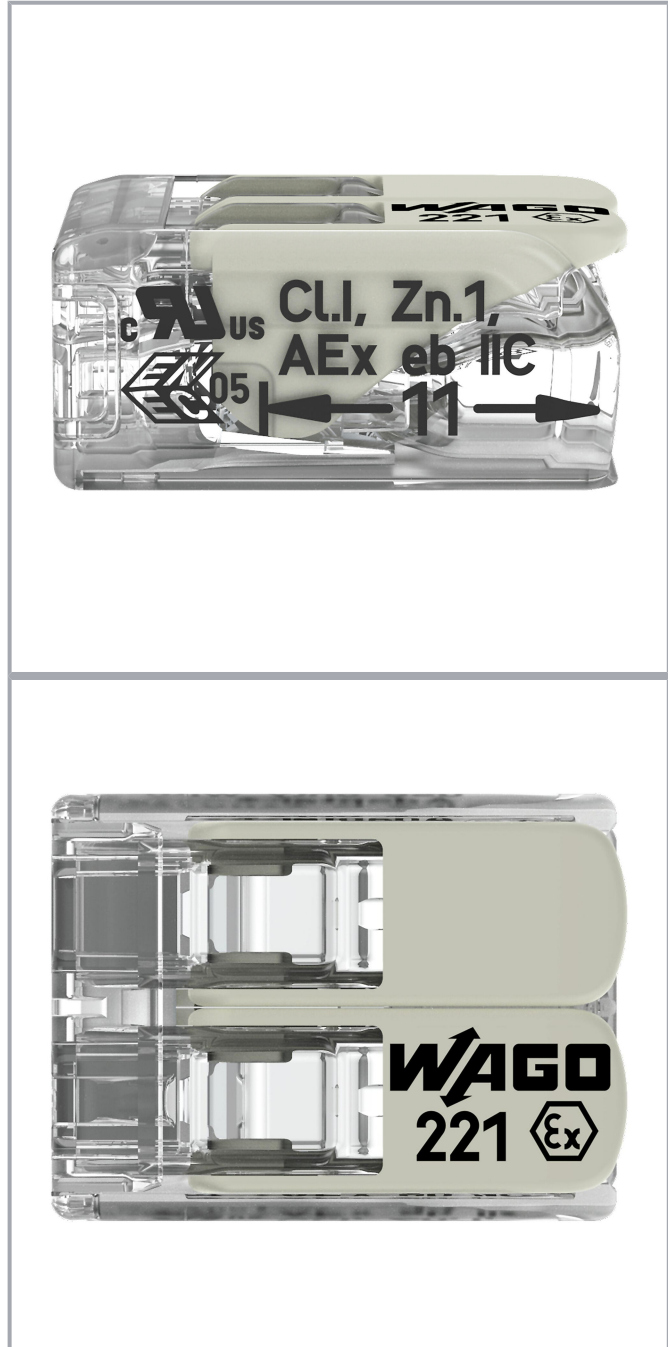
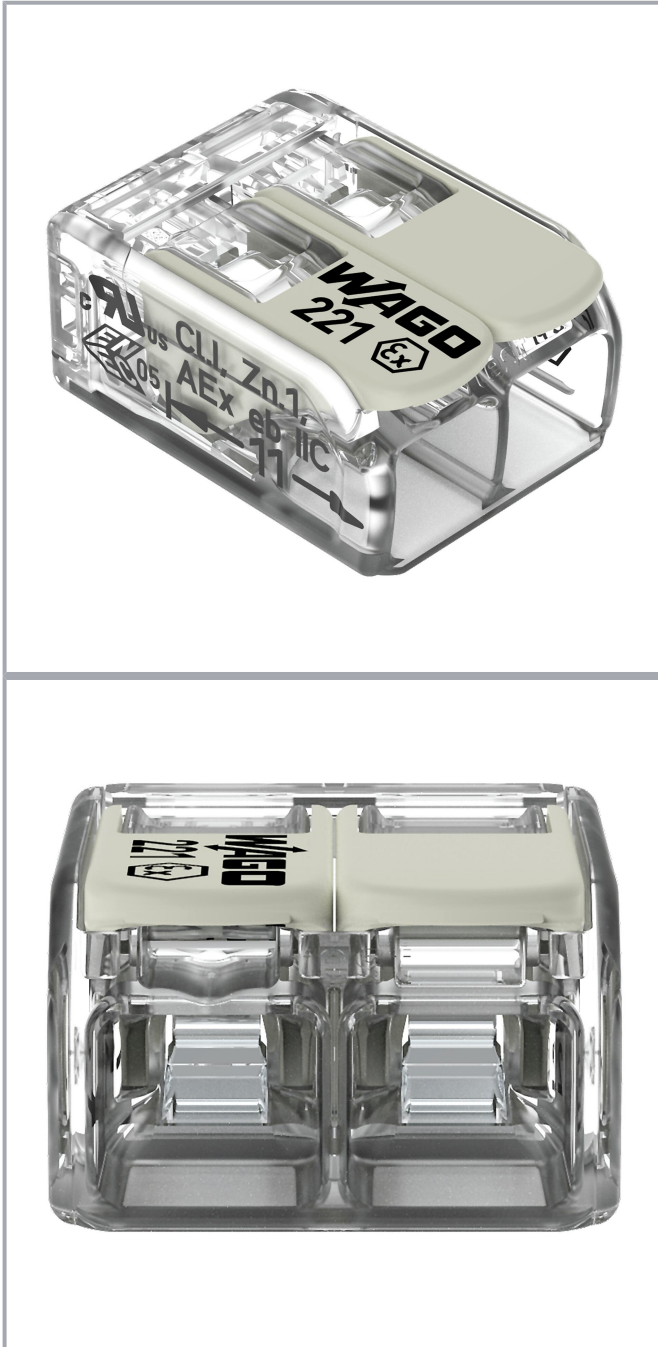


Data sheet | Item number: 221-482

COMPACT Splicing Connector; for all conductor types; for Ex e applications;
max. 4 mm²; 2-conductor; with levers; transparent housing; Operating
temperature (max.): 105 °C; 4,00 mm²; transparent

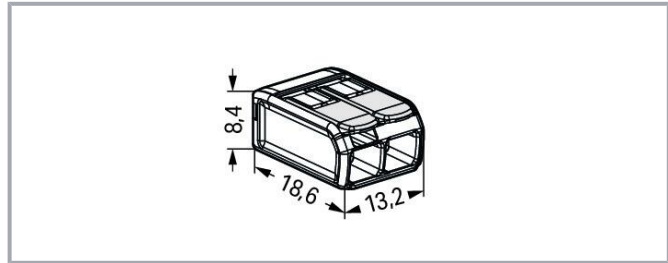
www.wago.com/221-482



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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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 mm²
- 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).

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

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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
-------------	----------------

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)	24.5 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	4 mm ² / 12 AWG
Solid conductor	0.2 ... 4 mm ² / 24 ... 12 AWG
Stranded conductor	0.2 ... 4 mm ² / 24 ... 12 AWG

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



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

Physical data

Width	13.2 mm / 0.52 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
Material group	IIIa
Insulation material	Polycarbonate (PC)
Flammability class per UL94	V2
Fire load	0.047 MJ
Actuator color	light gray
Weight	1.7 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)	1000 (100) pcs
Packaging type	box
Country of origin	DE
GTIN	4055143837422
Customs tariff number	85369010000

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

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Environmental Product Compliance

RoHS Compliance Status



Compliant, No Exemption

Approvals / Certificates


General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60998	NTR NL-7827
	CCC CNEX	GB/T 3836.3	2020312313000184 (Ex eb IIC Gb, Ex eb I Mb)
	ENEC 05 DEKRA Certification B.V.	EN 60998	71-113253 REV.1
	UL Underwriters Laboratories Inc.	UL 486C	E69654

Declarations of conformity and manufacturer's declarations





Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	LR Lloyds Register	EN 60998	LR22207029TA



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

Approvals for hazardous areas

Logo	Approval	Additional Approval Text	Certificate name
	AEx Underwriters Laboratories Inc.	UL 60079	E185892 (AEx eb IIC 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			
	Item no.: 221-501 Mounting carrier; for Ex applications; 221 Series - 4 mm ² ; for DIN-35 rail mounting/screw mounting; light gray		www.wago.com/221-501
	Item no.: 221-500/000-006 Mounting carrier; 221 Series - 4 mm ² ; for DIN-35 rail mounting/screw mounting; blue		www.wago.com/221-500/000-006

Downloads

Documentation

Bid Text

221-482 docx - Datei	2019 May 21	docx 16.4 kB	Download
221-482 X81 - Datei	2019 May 21	xml 4.2 kB	Download
ausschreiben.de 221-482		URL	Download

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

System Description

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

CAD/CAE-Data

CAD data

2D/3D Models 221-482	URL	Download
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CAE data

ZUKEN Portal 221-482	URL	Download
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EPLAN Data Portal 221-482	URL	Download
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Environmental Product Compliance

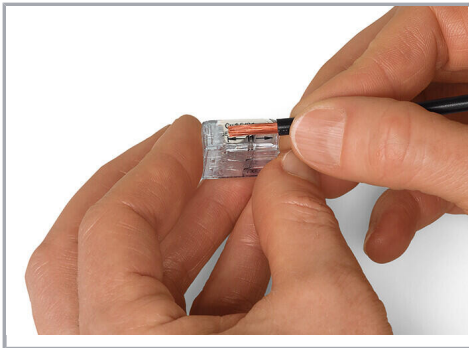
Compliance Search

Environmental Product Compliance 221-482	URL	Download
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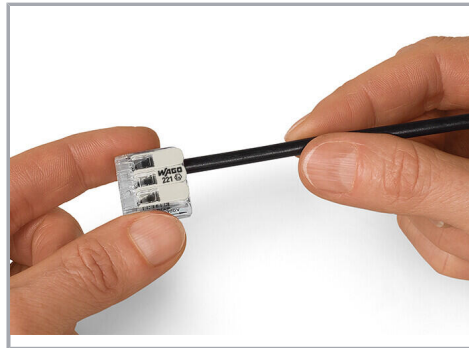
COMPACT Splicing Connector; for all conductor types; for Ex e applications; max. 4 mm²; 2-conductor; with levers; transparent housing; Operating temperature (max.): 105 °C; 4,00 mm²; transparent

Installation Notes

Conductor termination

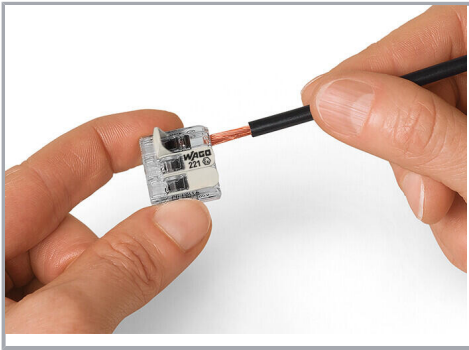


Strip conductor to 11 mm (0.43 inch).



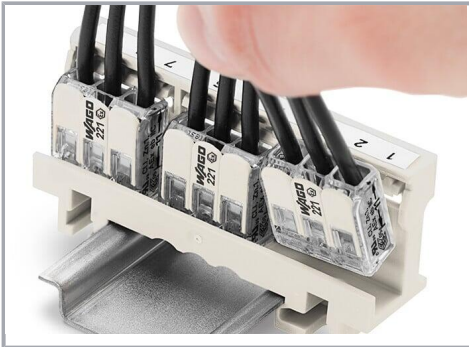
Then, lower the lever to close the clamp.

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

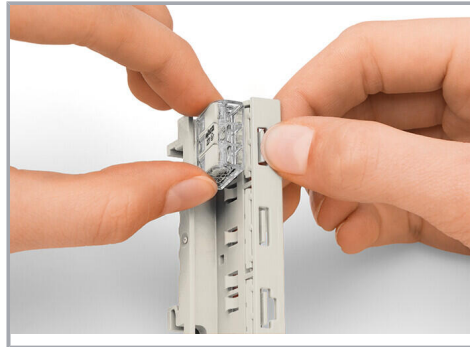


Termination: Lift the lever to open the clamping unit and insert a stripped conductor.

Installation



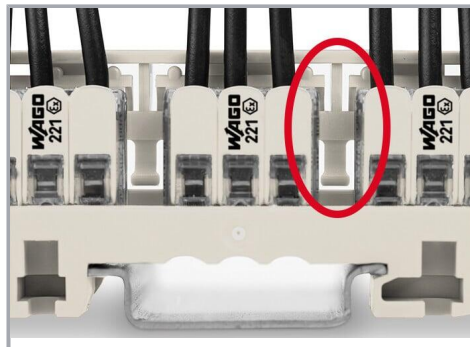
Inserting a connector into the mounting carrier.



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!



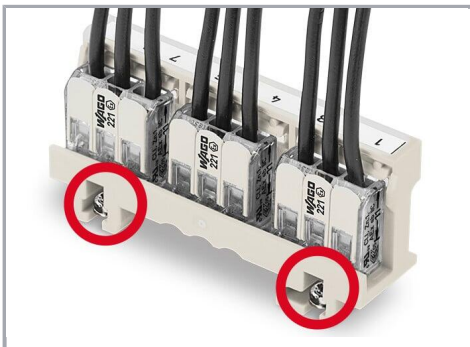
Mounting type (440 V)

Vertical mounting on DIN-35 rail



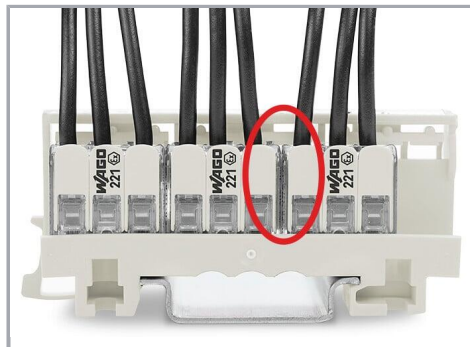
Mounting type (440 V)

Horizontal screw mounting on a flat surface



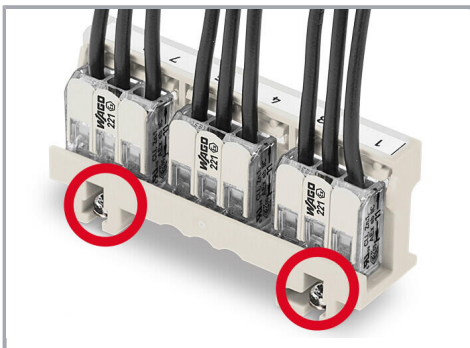
Mounting type (440 V)

Mounting the carrier via non-conductive screws.



Mounting type (275 V)

No spacers are used between the connectors.

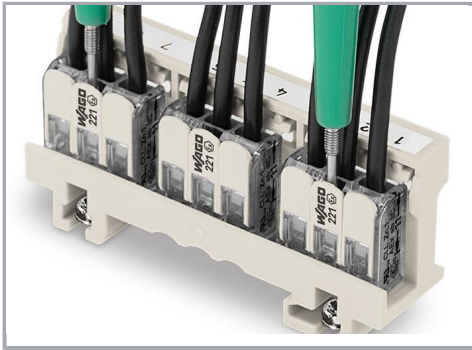


Mounting type (275 V)

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!