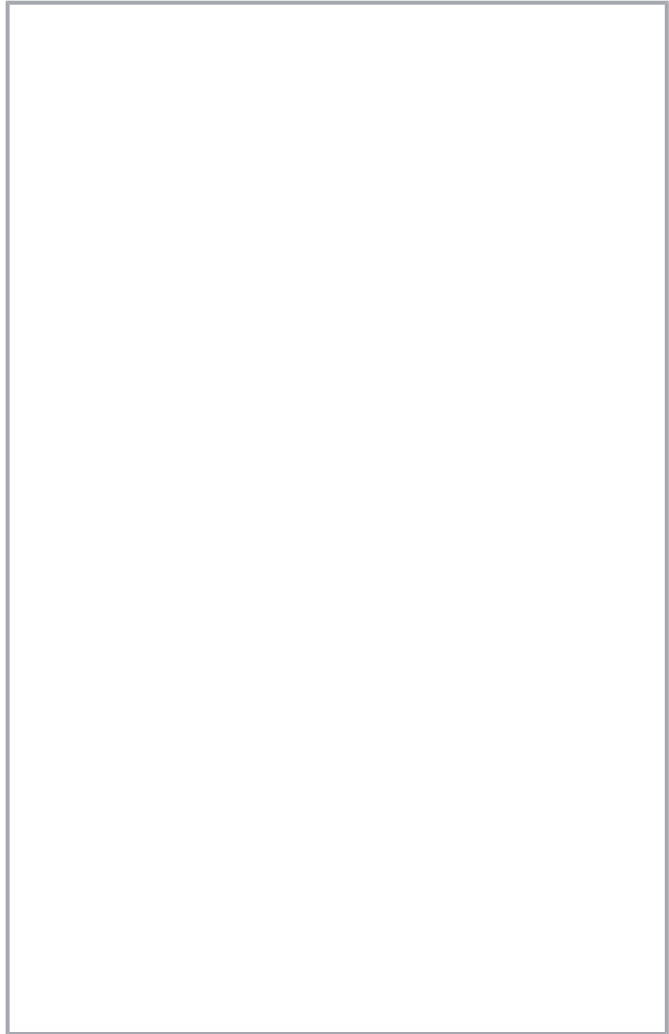
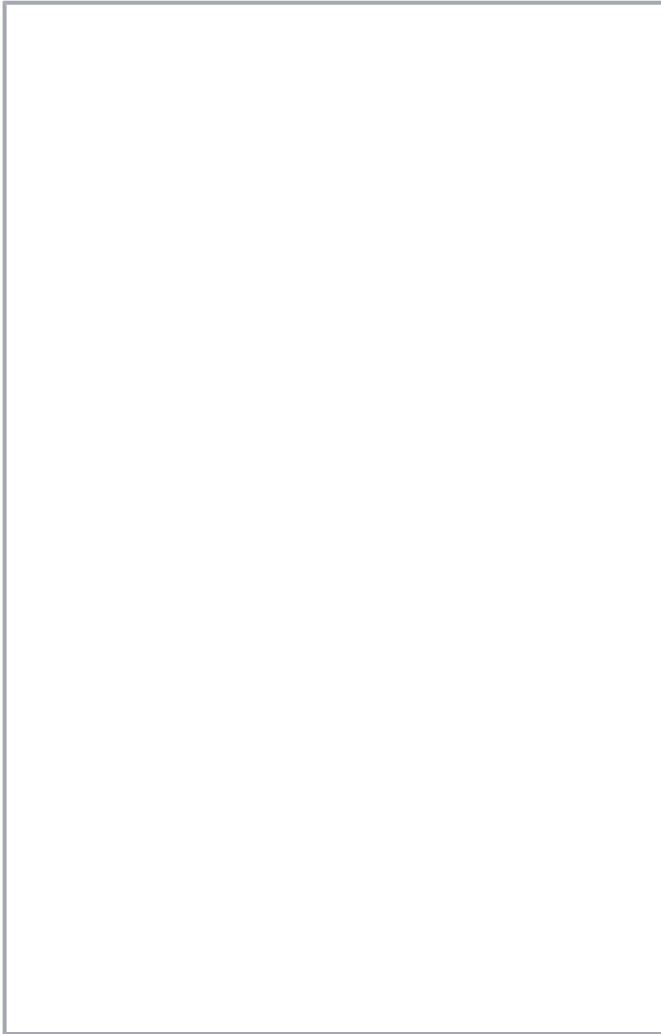


Data sheet | Item number: 221-482

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

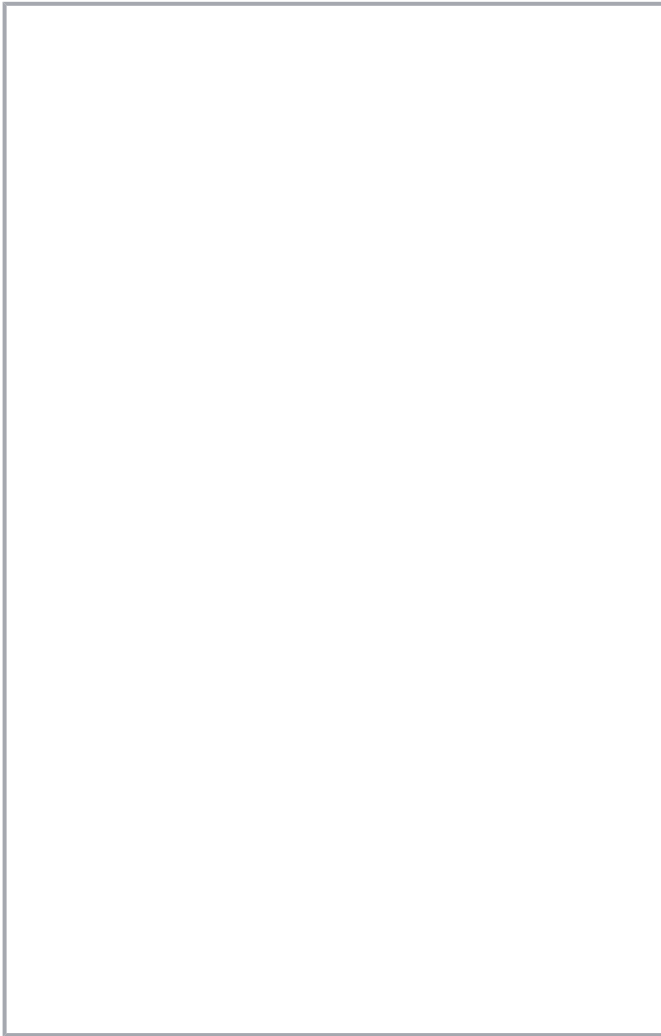
www.wago.com/221-482



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

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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 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

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

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- 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 1	The permissible operating voltage of the connector with carrier (440 V or 275 V) depends on the mounting type.
Safety information 2	<p>Only approved in conjunction with a mounting carrier (221-501). 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.</p> <p>The use of these components requires a new assessment by a notified certification agency.</p>

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)	24.5 A

Connection data

Connection points	2
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Subject to changes. Please also observe the further product documentation!



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
Fine-stranded conductor	0.14 ... 4 mm² / 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 data can be found here
Color	transparent
Material group	IIla
Insulation material	Polycarbonate (PC)
Flammability class per UL94	V2
Fire load	0.047 MJ
Actuator color	light gray
Weight	1.7 g

Environmental requirements

Continuous operating temperature	-55 ... +105 °C
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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

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


PU (SPU)	1000 (100) Stück
Packaging type	box
Country of origin VKOrg Germany	DE
GTIN	4055143837422
Customs tariff number VKOrg Germany	85369010000

Approvals / Certificates



General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60998	NTR NL-7827
	UL Underwriters Laboratories Inc.	UL 486C	E69654

Approvals for marine applications

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

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)
	ATEX Physikalisch Technische Bundesanstalt	IEC 60079-0	PTB 18 ATEX 1019 U (II 2 G Ex eb IIC Gb bzw. I M 2 Ex eb I Mb)
	CCC CNEX	GB/T 3836.3	2020312313000184 (Ex eb IIC Gb, Ex eb I Mb)
	CCCEX CQST/CNEX	CNCA-C23-01	2020312313000184 (Ex eb IIC Gb, Ex eb I Mb)

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



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 or Ex
eb I Mb)

Optional accessories

Mounting adapter

Mounting accessories

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



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

Downloads

Documentation

Bid Text

Item	Date	Format	Size	Action
221-482	May 21, 2019	docx	16.4 kB	Download

docx - Datei

Item	Date	Format	Size	Action
221-482	May 21, 2019	xml	4.2 kB	Download

X81 - Datei

Item	Format	Action
ausschreiben.de 221-482	URL	Download

System Description

Item	Format	Size	Action
System Description 221-482, 221-483, 221-485	pdf	1.2 MB	Download

System Description 221-482, 221-483, 221-485

Additional Information

Item	Format	Size	Action
Technical Section	pdf	2.2 MB	Download

Technical explanations

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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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Environmental Product Compliance

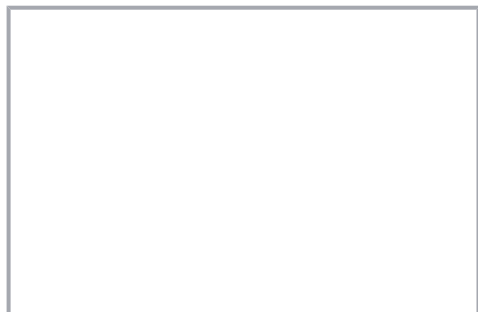
Compliance Search

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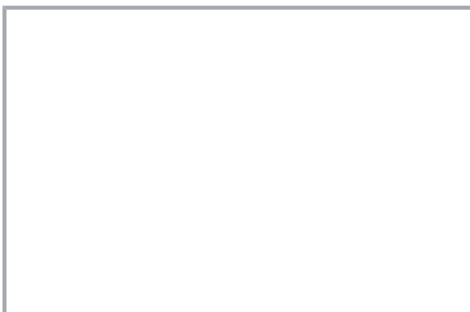
COMPACT Splicing Connector; for all conductor types; for Ex e applications; max. 4 mm²; 2-conductor; with levers; transparent housing; Operating temperature (max.): 105 °C; 4,00 mm²; transparent

Installation Notes

Conductor termination



Strip conductor to 11 mm (0.43 inch).



Then, lower the lever to close the clamp.

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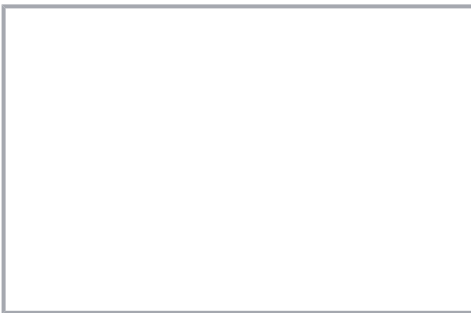
Termination: Lift the lever to open the clamping unit and insert a stripped conductor.



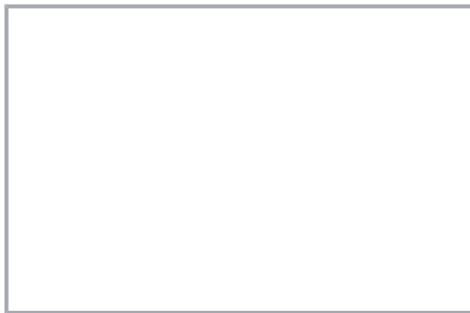
Inserting a connector into the mounting carrier.



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!



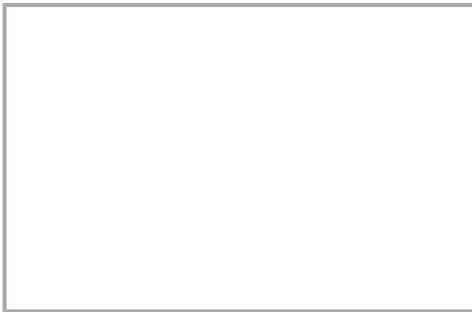
Mounting type (440 V)

Vertical mounting on DIN-35 rail



Mounting type (440 V)

Horizontal screw mounting on a flat surface



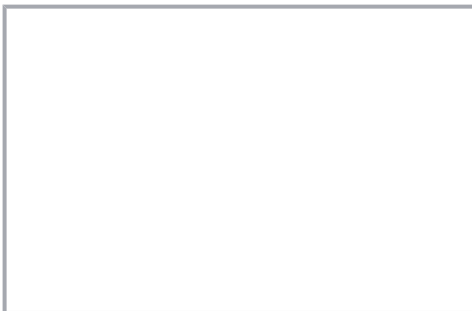
Mounting type (440 V)

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!

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