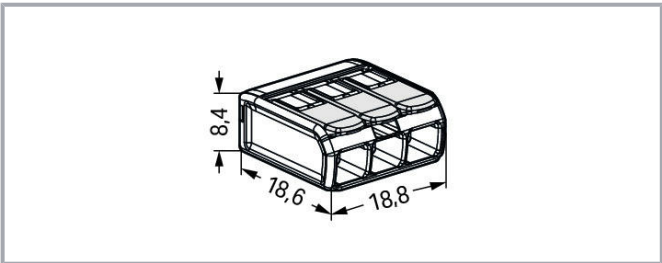


Data sheet | Item number: 221-483
COMPACT splicing connector; 3-conductor; with operating levers;
transparent housing; Ex

www.wago.com/221-483



Item description

Safety Information:

221 Series LEVER-NUTS® for Ex splicing connectors obtain AEx (class 1, zone 1) rating when used in conjunction with the mounting carrier, which can either be clamped onto a DIN rail or screwed tightly to any smooth surface.

This component is only approved in conjunction with mounting adapter (221-501). The mounting carrier fulfills the standard requirement for securing the clamping point. When the connectors are placed flush together within the carrier, the working voltage is 275 V. For applications with working voltages up to 440 V, the connectors are inserted so that there is a visible space between each connector.

**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	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

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

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identical in this case.

The use of these components requires a new assessment by a notified certification agency.

Electrical data

Approvals per	UL 60079
Rated voltage UL (Use Group C)	440 V
Rated current UL (Use Group C)	20 A
Ratings per	IEC/EN 60079-7
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

Total number of connection points	3
Total number of potentials	1
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
Wiring direction	Side-entry wiring

Physical data

Width	18.8 mm / 0.74 inch
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

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Environmental requirements






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

Commercial data

PU (SPU)	500 (50) Stück
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	E185892
	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)
	CCCEX CQST/CNEx	CNCA-C23-01	2020312313000184
	EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	RU C-DE.AM02.B. 00127/19
	IECEX Physikalisch Technische Bundesanstalt	IEC 60079-0	IECEX PTB 18.0045 U (Ex eb IIC Gb or Ex eb I Mb)

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60998	NTR NL- 7827

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CCA




KEMA/KEUR
DEKRA Certification B.V.


EN 60998

71-
113253

Ship Approvals



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

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 486C	E69654

Optional accessories

Mounting adapter

Mounting accessories			
	Item no.: 221-501 Mounting carrier, 221 series (24-12 AWG); for DIN-35 rail/panel mount; white, Ex	www.wago.com/221-501	
	Item no.: 221-500/000-006 Mounting carrier; 221 series (24 - 12 AWG); for DIN-35 rail/panel mount; blue	www.wago.com/221-500/000-006	

Downloads

Documentation

Bid Text

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

221-483

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16.4 kB

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Additional Information

Technical explanations

Apr 3, 2019

pdf
2.2 MB

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System Description

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

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

pdf
1.2 MB

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CAD files**CAD data**

2D/3D Models 221-483

URL

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CAE data

ZUKEN Portal 221-483

URL

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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**

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

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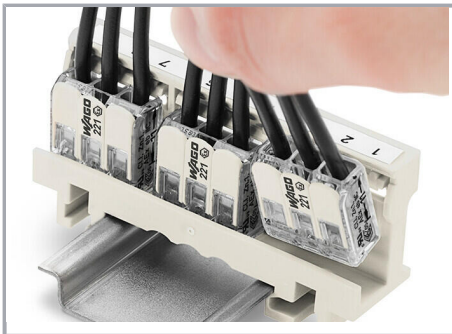
Strip conductor to 11 mm (0.43 inch).



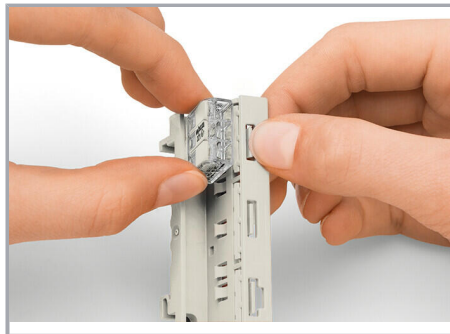
Then, lower the lever to close the clamp.



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



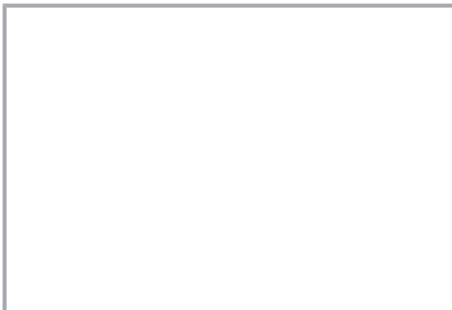
Inserting a connector into the mounting carrier.



Removing a connector from the mounting carrier.

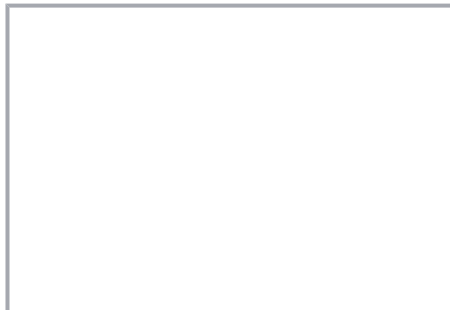


Removing a conductor.



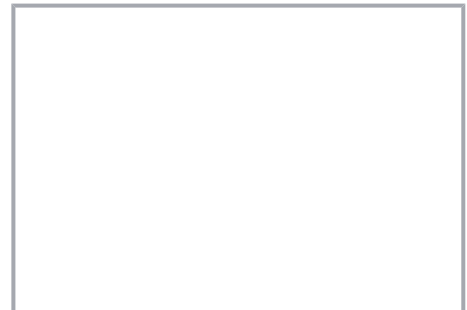
Mounting type (440 V)

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

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



Mounting type (440 V)

Mounting the carrier via non-conductive screws.



Mounting type (275 V)

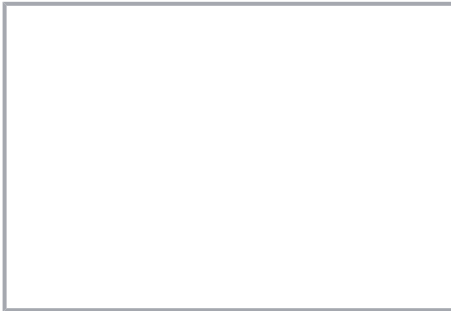
No spacers are used between the connectors.



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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