## Data Sheet | Item Number: 221-485

Splicing connector with levers; for all conductor types; for Ex e applications; max. 4 mm²; 5-conductor; transparent housing; Operating temperature (max.): 105 °C; 4,00 mm²; transparent



https://www.wago.com/221-485





Color:  $\square$  transparent

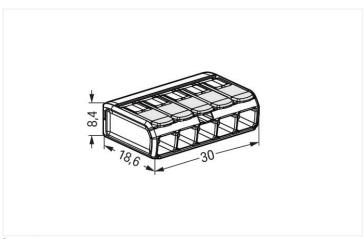












Dimensions in mm

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# WAGO

### 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

Notes	
Safety management note	NOTICE: Observe installation and safety instructions!
	<ul> <li>Only to be used by electricians!</li> <li>Do not work under voltage/load!</li> <li>Use only for proper use!</li> <li>Observe national regulations/standards/guidelines!</li> <li>Observe technical specifications for the products!</li> <li>Observe the number of permissible potentials!</li> <li>Do not use damaged/dirty components!</li> <li>Observe conductor types, cross-sections and strip lengths!</li> <li>Insert conductor until it hits the product's backstop!</li> <li>Use original accessories!</li> </ul>
	To be sold only with installation instructions!
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). 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, GB/T 3836.1 Section 1 or EN 60079-31, GB/T 3836.31. When installing the connectors in an enclosure of protection type "e" (increased safety per EN 60079-7, GB/T 3836.3), 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				
Approvals per		UL 60079		E
Use group	В	С	D	R
Rated voltage	-	440 V	-	
Rated current	-	20 A	-	R

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			
Clamping units	5	Connection 1	
Total number of potentials 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	30 mm / 1.181 inches
Height	8.4 mm / 0.327 inches
Depth	18.6 mm / 0.732 inches

Material data	
Note (material data)	
	<u>Information on material specifications can be found here</u>
Color	transparent
Material group	Illa
Insulation material (main housing)	Polycarbonate (PC)
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 9.0	EC000446
ETIM 8.0	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

## Approvals / Certificates

## General approvals







Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60998	NTR NL-7990
cULus_Listed_667F Underwriters Laboratories Inc.	UL 486C	E69654
ENEC 05 DEKRA Certification B.V.	EN 60669,EN 60998	71-127529

## Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
ATEX-Attestation of Conformity WAGO GmbH & Co. KG	-	-
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

## Approvals for marine applications



Approval	Standard	Certificate Name
LR Lloyds Register	EN 60998	LR22207029TA

## Approvals for hazardous areas





Approval	Standard	Certificate Name
AEx Underwriters Laboratories Inc.	UL 60079	E185892 (AEx eb IIC resp. Ex eb IIC)
ATEX Physikalisch Technische Bundesanstalt	EN IEC 60079-0	PTB 18 ATEX 1019 U (II 2 G Ex eb IIC Gb, I M 2 Ex eb I Mb)
CCC CNEX	GB/T 3836.3	2020312313000184 (Ex eb IIC Gb, Ex eb I Mb)
EAC Brjansker Zertifizierungs- stelle	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)
INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079	TÜV 19.1781 U

## **Downloads**

## **Environmental Product Compliance**

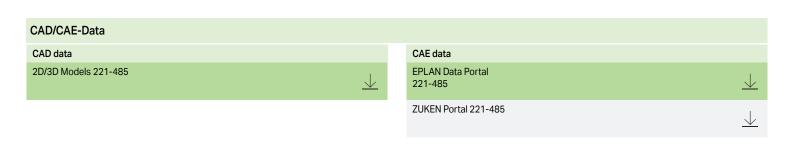
#### Compliance Search

**Environmental Product** Compliance 221-485





#### **Documentation** Bid Text **System Description** System Description pdf 221-485 xml 1151.51 KB 4.09 KB 221-482, 221-483, 21.05.2019 221-485 221-485 docx 21.05.2019 16.02 KB ausschreiben.de 221-485



### 1 Compatible Products

## 1.1 Optional Accessories

### 1.1.1 Mounting adapter

### 1.1.1.1 Mounting accessories





#### Item No.: 221-500/000-006

Mounting carrier; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting;

#### Item No.: 221-501

Mounting carrier; for Ex applications; 221 Series - 4 mm<sup>2</sup>; for DIN-35 rail mounting/ screw mounting; light gray

#### Installation Notes

#### Conductor termination



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



Removing a connector from the mounting carrier



Removing a conductor.



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

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### Installation



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



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



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.

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