

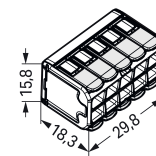
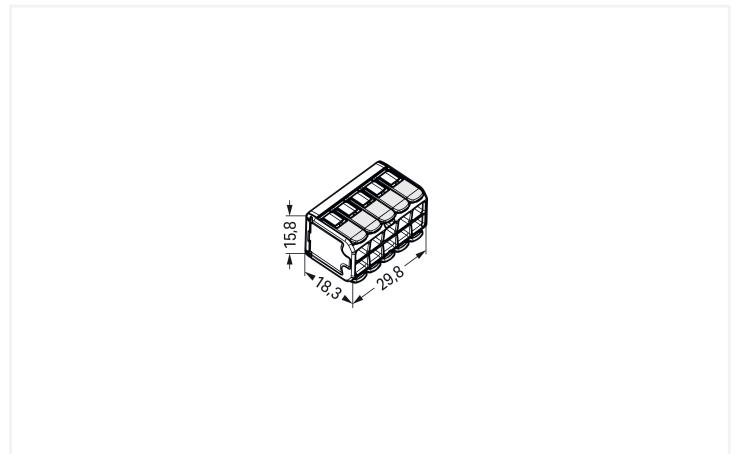
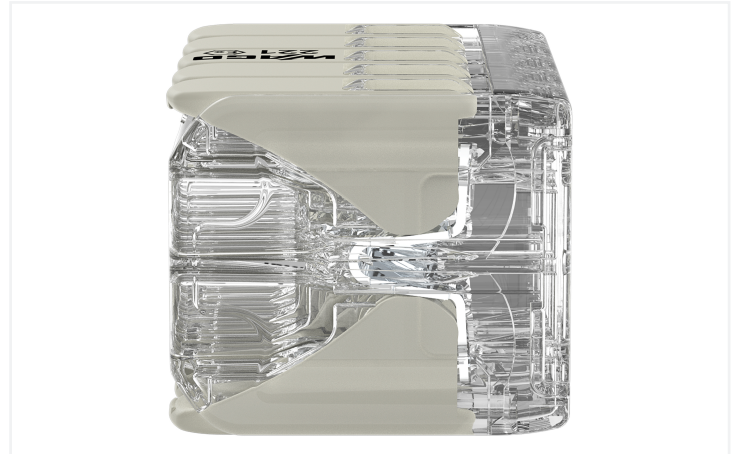
## Scheda dati | Codice articolo: 221-490

Morsetto di giunzione con leve; per tutti i tipi di conduttore; per applicazioni Ex-e; max. 4 mm<sup>2</sup>; 10 conduttori; scatola trasparente; Temperatura operativa (max.): 105 °C; 4,00 mm<sup>2</sup>; trasparente

<https://www.wago.com/221-490>



Colore:  trasparente



Misure in mm

Splicing connector with levers, 221 Series, lever

Our splicing connector with levers (item number 221-490) is designed for seamless electrical installations. From intercom system wiring to electric ovens—connecting various conductor types is quick and easy with WAGO's practical 221 Series splicing connector. Strip lengths must be between 10 and 12 mm when con-

necting conductors to splicing connector with levers. Featuring conductor terminals along with CAGE CLAMP®, this product is highly versatile. Our highly-rated and maintenance-free CAGE CLAMP® connection makes it easy to connect all types of conductors without having to prepare the conductor. For example, you don't need to crimp ferrules. The dimensions are (29.8 x 15.8 x 18.3) mm (width x height x depth). Depending on the type of conductor, splicing connector with levers is designed for conductor cross sections ranging from 0.2 mm<sup>2</sup> to 4 mm<sup>2</sup>.

WAGO's 221 Series Splicing Connector with levers impresses with its innovative design for different conductor cross-sections. That's why WAGO's lever-equipped splicing connector holds a unique trademark within electrical interconnection technology. The flat levers, which fit seamlessly into the 221's base, act like a cast when closed and can be positioned neatly in any housing without disturbing edges. Due to the wide design of each lever, they can all be operated perfectly without tools for convenient conductor terminations. The transparent housing displays robust technology and enables immediate visual inspection for the correct contact of solid, stranded and fine-stranded conductors. Resembling piano keys, the levers' design perfectly combines the functional and aesthetic connection technology "Made by WAGO." This product is designed for specific Ex applications (please refer to the product datasheet).

## Notes

General safety information

**NOTICE: Observe installation and safety instructions!**

- **Only to be used by electricians!**
- Do not work under voltage/load!
- Use only for proper use!
- Observe national regulations/standards/guidelines!
- Observe technical specifications for the products!
- Observe the number of permissible potentials!
- Do not use damaged/dirty components!
- Observe conductor types, cross-sections and strip lengths!
- Insert conductor until it hits the product's backstop!
- Use original accessories!

**To be sold only with installation instructions!**

Informazione di sicurezza

nelle linee di alimentazione con messa a terra

## Electrical data

Certificazioni secondo	UL 60079		
	B	C	D
Use group	B	C	D
Tensione nominale	-	440 V	-
Corrente nominale	-	20 A	-

## Ex information

Classificazione per	ATEX: PTB 18 ATEX 1019 U / IECEx: PTB 18.0045U (Ex eb IIC Gb)
Tensione nominale EN (Ex e II)	440 V
Corrente nominale (Ex-e II)	32 A

## Informazioni generali

Direzione cablaggio Cablaggio laterale

## Dati di connessione

Numero totale di punti di connessione	10
Numero totale di potenziali	1

## Connessione 1

Tecnica di connessione	CAGE CLAMP®
Tipo azionamento	Leva
Materiali del conduttore collegabile	Rame
Sezione nominale	4 mm <sup>2</sup> / 12 AWG
Conduttore rigido	0,2 ... 4 mm <sup>2</sup> / 24 ... 12 AWG
Conduttore semi-rigido	0,2 ... 4 mm <sup>2</sup> / 24 ... 12 AWG
Conduttore flessibile	0,14 ... 4 mm <sup>2</sup> / 24 ... 12 AWG
Lunghezza spelatura	10 ... 12 mm / 0.39 ... 0.47 pollici
Direzione cablaggio	Cablaggio laterale

### Dati geometrici

Larghezza	29,8 mm / 1.173 pollici
Altezza	15,8 mm / 0.62 pollici
Profondità	18,3 mm / 0.72 pollici

### Dati dei materiali

Nota sui dati dei materiali	<a href="#">Information on material specifications can be found here</a>
Colore	trasparente
Colore coperchio	trasparente
Gruppo materiale	IIIa
Materiale isolante	Policarbonato (PC)
Classe di infiammabilità secondo UL 94	V2
Carico d'incendio	0.111 MJ
Colore dell'attuatore	grigio chiaro
Peso	7 g

### Requisiti ambientali

Temperatura aria circostante (operazione)	+85 °C
Marcatura della temperatura sec. EN 60998	T85

### Dati commerciali

PU (SPU)	150 (15) pz.
Tipo imballaggio	Box
Paese d'origine	DE
GTIN	4066966668087
Numero tariffa doganale	85369010000

### Product Classification

UNSPSC	39121409
ETIM 9.0	EC000446
ETIM 10.0	EC000446
ECCN	NO US CLASSIFICATION

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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### Approvazioni/certificati

#### Omologazioni generali



Certificazione	Standard	Nome del certificato
CCA DEKRA Certification B.V.	EN 60998	NTR NL-8062
ENEC 05 DEKRA Certification B.V.	IEC 60998	71-152248

#### Dichiarazioni di conformità e dichiarazioni del produttore

Certificazione	Standard	Nome del certificato
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

### Certificazioni per aree a rischio



Certificazione	Standard	Nome del certificato
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)
IECEX Physikalisch Technische Bundesanstalt	IEC 60079-0	IECEX PTB 18.0045U (Ex eb IIC Gb, Ex eb I Mb)

### Download

#### Environmental Product Compliance

##### Compliance Search

Environmental Product  
Compliance 221-490



#### CAD/CAE-Data

##### CAD data

2D/3D Models 221-490



### 1 Prodotti compatibili

#### 1.1 Accessori opzionali

##### 1.1.1 Adattatore di montaggio

##### 1.1.1.1 Accessori di montaggio



###### [N. art.: 221-539/1000-000](#)

Supporto di montaggio con piastra antis-trappo; connettori per 10 cavi; Serie 221 - 4 mm<sup>2</sup>; per guida DIN 15; per applicazioni Ex; grigio chiaro



###### [N. art.: 221-549/1000-000](#)

Supporto di montaggio con piastra antis-trappo; connettori per 10 cavi; Serie 221 - 4 mm<sup>2</sup>; per guida DIN 35; per applicazioni Ex; grigio chiaro



###### [N. art.: 221-539/1002-000](#)

Supporto di montaggio; connettori per 10 cavi; Serie 221 - 4 mm<sup>2</sup>; per guida DIN 15; per applicazioni Ex; grigio chiaro

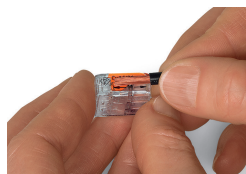


###### [N. art.: 221-549/1002-000](#)

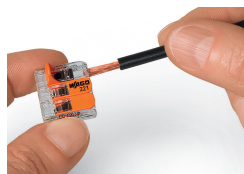
Supporto di montaggio; connettori per 10 cavi; Serie 221 - 4 mm<sup>2</sup>; per guida DIN 35; per applicazioni Ex; grigio chiaro

### Note di installazione

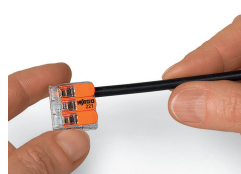
## Connessione conduttore



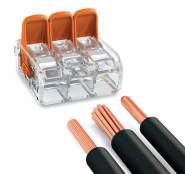
Spelare il conduttore fino a 11 mm (0,43 pollici).



Pull up an orange lever to open the clamping unit.



Then insert the conductor and push the lever back down, flush with the connector housing.



### Compact, lever-operated splicing connectors:

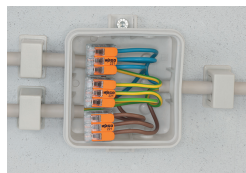
Tool-free connection of fine-stranded conductors from 0.14 ... 4 mm<sup>2</sup>, as well as solid or stranded conductors from 0.2 ... 4 mm<sup>2</sup> (24 ... 12 AWG).

#### Safety:

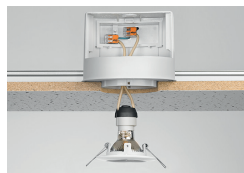
The lever's specially designed rest position reliably prevents accidental unclamping of a connected conductor.

Application safety, for any type of conductor (solid, stranded, fine-stranded), is confirmed by approvals like ENEC or UL.

## Applicazione



Cablaggio dei conduttori flessibili nelle scatole di giunzione.



Sistema d'illuminazione a bassa tensione personalizzato

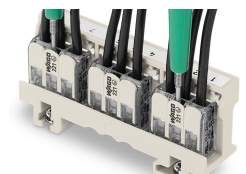


Distribuzione dell'illuminazione in una scatola a soffitto



Collegamento della luce a sospensione in un controsoffitto

## Test



Collaudo facile dei connettori inseriti nel supporto: comunque siano montati.