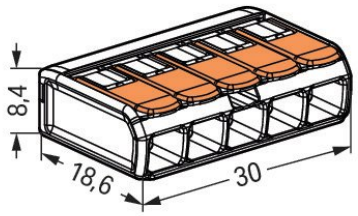
# Data sheet | Item number: 221-415

COMPACT Splicing Connector; for all conductor types; max. 4 mm²; 5-conductor; with levers; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm²; transparent








Dimensions in mm

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
- Custom carriers are possible

## Notes

| | |
|---|---|
| Safety information 1 | in grounded power lines |

## Electrical data

### Ratings per IEC/EN

| | |
|---|---|
| Ratings per | EN 60664 |
| Nominal voltage (II/2) | 450 V |
| Rated surge voltage (II/2) | 4 kV |
| Rated current | 32 A |
| Legend (ratings) | (II / 2) ≙ Overvoltage category II / Pollution degree 2 |

### Ratings per UL

| | |
|---|---|
| Approvals per | UL 486C |
| Rated voltage UL (Use Group C) | 600 V |
| Rated current UL (Use Group C) | 20 A |

## Connection data

| | |
|---|---|
| Total number of connection points | 5 |
| 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 | 30 mm / 1.181 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 |
| Flammability class per UL94 | V2 |
| Fire load | 0.074 MJ |
| Actuator color | orange |
| Weight | 4 g |

## Environmental requirements

| | |
|---|---|
| Ambient temperature (operation) | +85 °C |
| Continuous operating temperature | 105 °C |
| Temperature marking per EN 60998 | T85 |


Continued on next page

## Commercial data

| | |
|---|---|
| Product Group | 7 (Push Wire Conn.) |
| 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) | 250 (25) Stück |
| Packaging type | Box |
| Country of origin VKOrg Germany | DE |
| GTIN | 4055143234658 |
| Customs tariff number VKOrg Germany | 85369010000 |

## Approvals and certificates

### Country specific Approvals

| Approval | Standard | Certificate name |
|---|---|---|
| CCA<br>DEKRA Certification B.V. | EN 60998 | NTR NL-7827 |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 60998 | 71-113253 REV. 1 |

### Ship Approvals

| Approval | Standard | Certificate name |
|---|---|---|
| ABS<br>American Bureau of Shipping | - | 18-HG1755093-PDA |
| DNV GL<br>Det Norske Veritas, Germanischer Lloyd | EN 60998 | TAE000015T |
| LR<br>Lloyds Register | EN 60998 | 04/20013 (E8) |

### UL-Approvals

| Approval | Standard | Certificate name |
|---|---|---|
| UL<br>UL International Germany GmbH | UL 486C | E69654 |

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 221-415

## Documentation

### Additional Information

| | | |
|---|---|---|
| Technical Section | pdf<br>2142.18 KB | |

### Bid Text

| | | |
|---|---|---|
| 221-415 | 19.02.2019 | xml<br>3.43 KB |
| 221-415 | 23.01.2019 | docx<br>15.31 KB |
| ausschreiben.de<br>221-415 | | |

## CAD/CAE-Data

### CAD data

2D/3D Models 221-415

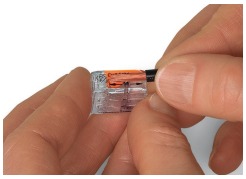
### CAE data

EPLAN Data Portal
221-415

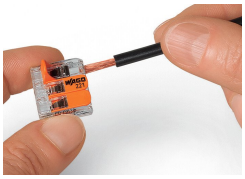
ZUKEN Portal 221-415

## Installation notes

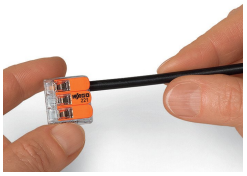
### Conductor termination



Strip conductor to 11 mm (0.43 inch).

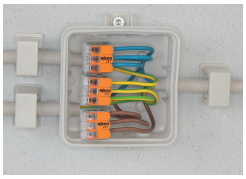


Termination: Lift the lever to open the clamping unit and insert a stripped conductor.

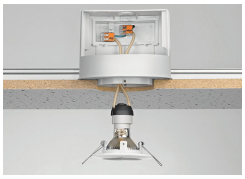


Then, lower the lever to close the clamp.

### Application



Wiring fine-stranded conductors in junction boxes.



Custom low-voltage lighting system



Lighting distribution in a ceiling canopy



Pendant light connection in a suspended ceiling



COMPACT Splicing Connectors for All Conductor Types (4 mm², 221 Series



Compact, lever-operated splicing connectors:
Tool-free connection of up to five stripped, fine-stranded conductors from 0.14 … 4 mm², as well as solid or stranded conductors from 0.2 … 4 mm² (24 … 12 AWG).

How they work:
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.

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.