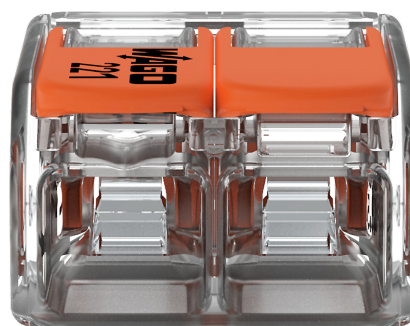


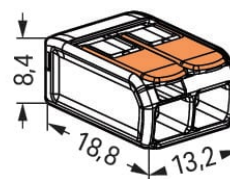
Data Sheet | Item Number: 221-412

COMPACT Splicing Connector; for all conductor types; max. 4 mm²; 2-conductor;
with levers; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00
mm²; transparent

<https://www.wago.com/221-412>



Color: ☐ 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

Electrical data

Ratings per				EN 60664				Approvals per				UL 486C			
Overvoltage category	III	III	II					Use group	B	C	D				
Pollution degree	3	2	2					Rated voltage	-	600 V	-				
Nominal voltage	-	-	450 V					Rated current	-	20 A	-				
Rated surge voltage	-	-	4 kV												
Rated current	-	-	32 A												

Connection data

Connection points	2							Connection 1							
Total number of potentials	1							Connection technology	CAGE CLAMP®						
								Actuation type	Lever						
								Connectable conductor materials	Copper						
								Nominal cross-section	4 mm ² / 12 AWG						
								Solid conductor	0.2 ... 4 mm ² / 24 ... 12 AWG						
								Stranded conductor	0.2 ... 4 mm ² / 24 ... 12 AWG						
								Fine-stranded conductor	0.14 ... 4 mm ² / 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	8.4 mm / 0.331 inches														
Depth	18.8 mm / 0.732 inches														

Material data

Note (material data)	Information on material specifications can be found here														
Color	transparent														
Insulation material	Polycarbonate (PC)														
Flammability class per UL94	V2														
Fire load	0.049 MJ														
Actuator color	orange														
Weight	1.7 g														



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

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)	1000 (100) pcs
Packaging type	Box
Country of origin	DE
GTIN	4050821808435
Customs tariff number	85369010000

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60998	NTR NL-7990	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
cULus_Listed_667F Underwriters Laboratories Inc.	UL 486C	UL-CA-L69654	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
ENEC 05 DEKRA Certification B.V.	EN 60669, EN 60998	71-127529			
UL_Listed_64KA UL International Germany GmbH	UL 467	E201573			

Approvals for marine applications

Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	18-HG1755093-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	EN 60998	TAE000015T
LR Lloyds Register	EN 60998	LR22207029TA

Downloads






Documentation			
Bid Text			
221-412	19.02.2019	xml 3.43 KB	↓
221-412	23.01.2019	docx 15.26 KB	↓
ausschreiben.de 221-412			↓





CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 221-412	EPLAN Data Portal 221-412
↓	↓
	ZUKEN Portal 221-412
	↓

1 Compatible Products
1.1 Optional Accessories
1.1.1 General accessories
1.1.1.1 Empty housings



[Item No.: 207-4301](#)
Junction box; Branch; for multicore cables;
221 Series; max. 4 mm² connectors; wi-
thout splicing connectors; white

1.1.1.2 Moisture protection		
		
Item No.: 207-1331 Gelbox; Branch; for cables; with gel; 221, 2x73 Series; max. 4 mm² connectors; without splicing connectors; Size 1; gray	Item No.: 207-1332 Gelbox; Branch; for cables; with gel; 221, 2x73 Series; max. 4 mm² connectors; without splicing connectors; Size 2; gray	Item No.: 207-1333 Gelbox; Branch; for cables; with gel; 221, 2x73 Series; max. 4 mm² connectors; without splicing connectors; Size 3; gray

1.1.2 Jumper			
1.1.2.1 Jumper			
			
Item No.: 221-941/000-006 Jumper; for conductor entry; 2-way; insulated; blue	Item No.: 221-942/000-006 Jumper; for conductor entry; 2-way; insulated; blue	Item No.: 221-941 Jumper; for conductor entry; 2-way; insulated; dark gray	Item No.: 221-942 Jumper; for conductor entry; 2-way; insulated; dark gray

1.1.3 Mounting adapter

1.1.3.1 Mounting accessories



Item No.: 221-500/000-006
Mounting carrier; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; blue



Item No.: 221-500/000-053
Mounting carrier; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; dark gray-yellow



Item No.: 221-500
Mounting carrier; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; orange



Item No.: 221-502/000-004
Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm²; for screw mounting; black



Item No.: 221-502
Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm²; for screw mounting; white



Item No.: 221-512/000-004
Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for horizontal mounting; black



Item No.: 221-512
Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for horizontal mounting; white



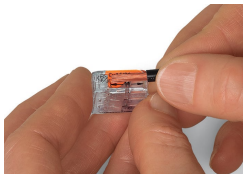
Item No.: 221-522/000-004
Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for vertical mounting; black



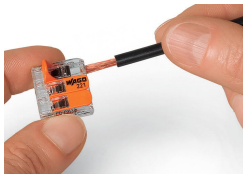
Item No.: 221-522
Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for vertical mounting; white

Installation Notes

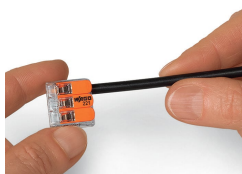
Conductor termination



Strip conductor to 11 mm (0.43 inch).



Pull up an orange lever to open the clamping unit.

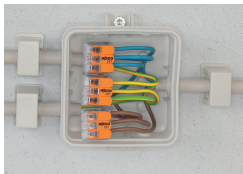


Then insert the conductor and push the lever back down, flush with the connector housing.



Compact, lever-operated splicing connectors:
Tool-free connection of fine-stranded conductors from 0.14 ... 4 mm², as well as solid or stranded conductors from 0.2 ... 4 mm² (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.

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