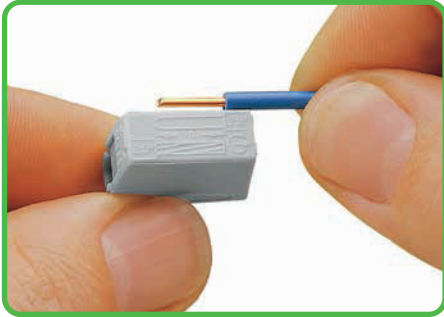
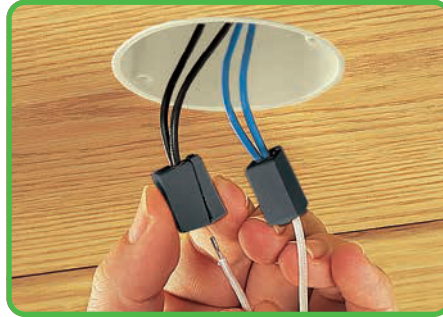


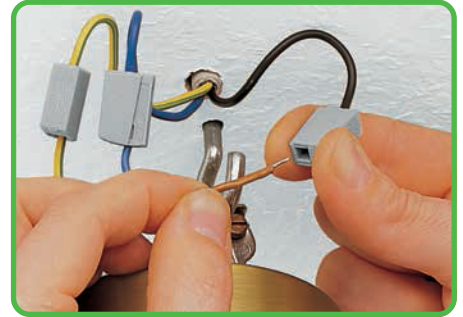
Lighting side



Strip conductor to 9 - 11 mm.

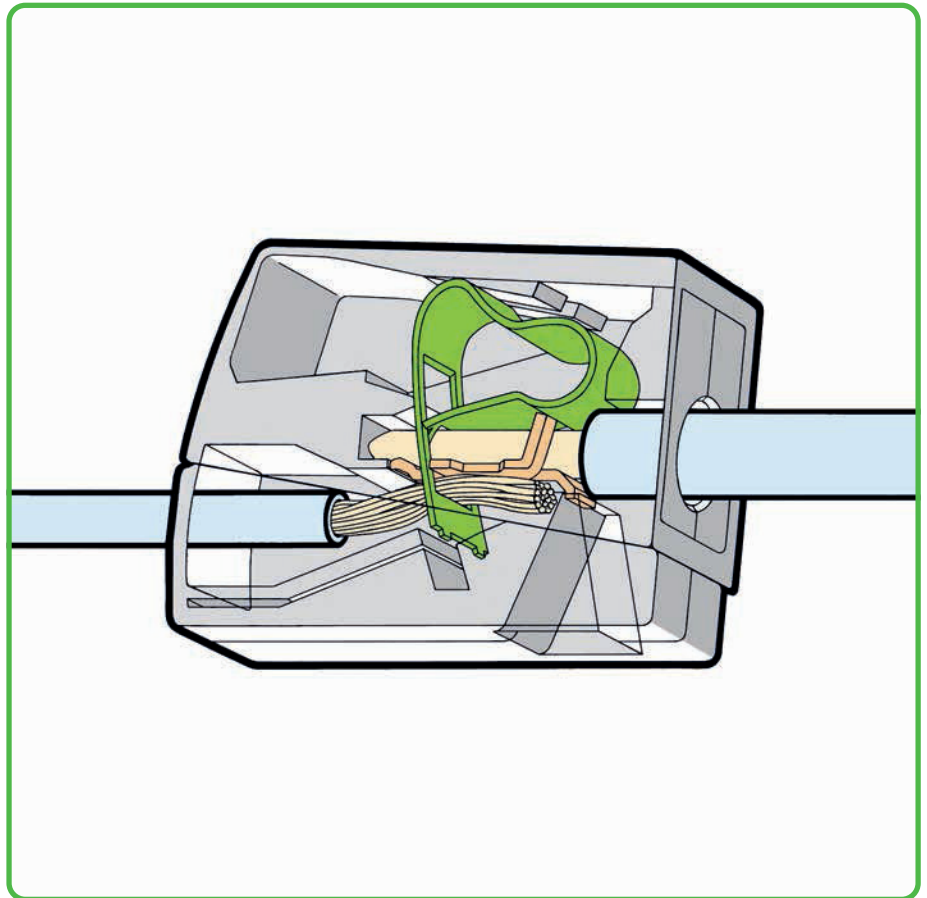
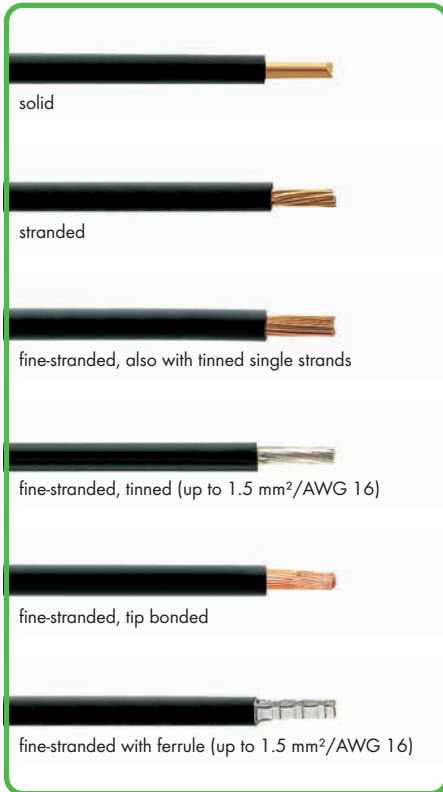


To connect: Press button fully and insert stripped conductor into square entry until it hits backstop and release.



To remove: Press button and withdraw conductor.

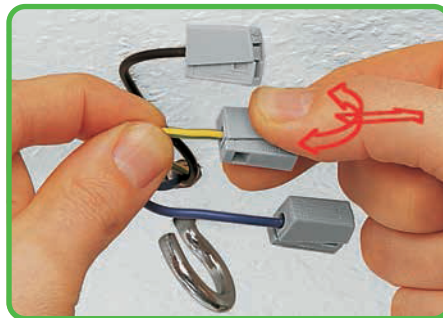
CAGE CLAMP® clamps the following copper conductors: *



Installation side



To connect: Insert stripped solid conductor into circular entry and push until it hits the backstop.



To remove: Hold conductor to be removed and twist alternately left and right while pulling the connector.



Testing through separate test slot.



PUSH WIRE® clamps the following copper conductors:*

solid

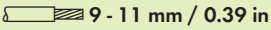
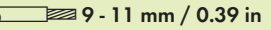
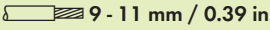
* Use contact paste "Alu-Plus" when connecting aluminum conductors
Item No. 249-130

Lighting and "Service" Connectors 224 Series






PUSH WIRE®
CAGE CLAMP®

12

483

Installation side 1 - 2.5 mm ² "s" Lighting side 0.5 - 2.5 mm ² "s+f-st" 400 V/4 kV/2; 24 A 	AWG 14 - 12 AWG 20 - 16 300 V, 20 A®	Installation side 1 - 2.5 mm ² "s" Lighting side 0.5 - 2.5 mm ² "s+f-st" 400 V/4 kV/2; 24 A 	AWG 14 - 12 AWG 20 - 16 300 V, 20 A®	0.5 - 2.5 mm ² "s+f-st" 400 V/4 kV/2 I _N 24 A 	AWG 20 - 16 300 V, 20 A®
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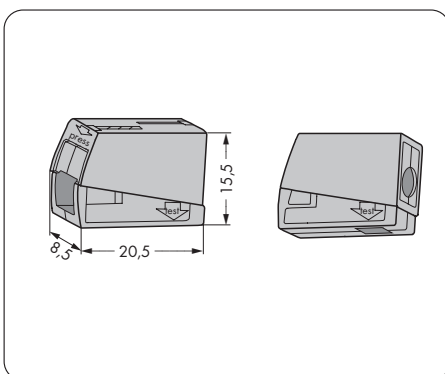
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Lighting connector, standard version, continuous service temperature 105°C  gray			2-conductor lighting connector, standard version, continuous service temperature 105°C  white			"Service" connector  gray		
	224-101	1000 (10x100)		224-112	1000 (10x100)		224-201	50
Lighting connector, version for increased continuous service temperature of 120°C  black			2-conductor lighting connector, version for increased continuous service temperature of 120°C  black					
	224-104	100		224-114	100			

224 Series Accessories

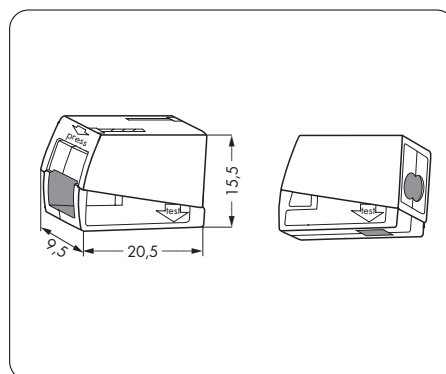
Syringe,



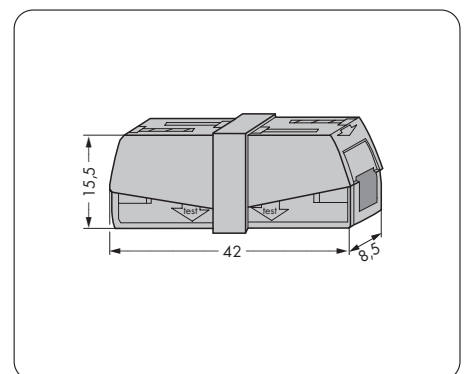
contents: 20 ml "Alu-Plus" contact paste
249-130 20 (4x5)



Dimensions in mm

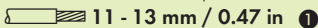
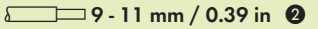
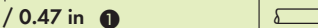
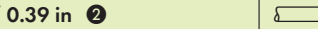
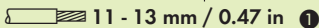
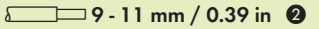

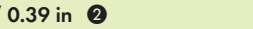


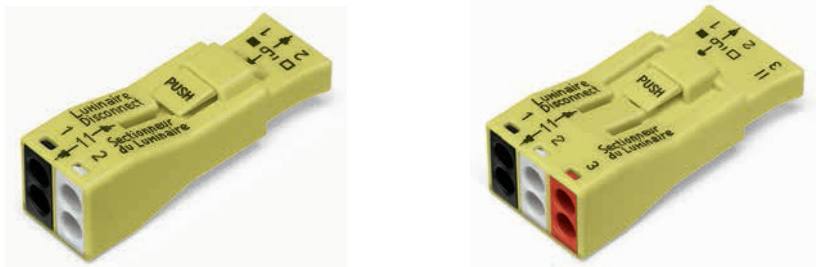
Dimensions in mm



Dimensions in mm

Certification organizations can be found in the overview on pages 622 and 623.

2-conductor plug ① AWG 18 - 12 "s" AWG 16 - 12 "st"  11 - 13 mm / 0.47 in ①  9 - 11 mm / 0.39 in ②	1-conductor socket ② AWG 18 "s" 600 V, 6 A (UL)  11 - 13 mm / 0.47 in ①  9 - 11 mm / 0.39 in ②	2-conductor plug ① AWG 18 - 12 "s" AWG 16 - 12 "st"  11 - 13 mm / 0.47 in ①  9 - 11 mm / 0.39 in ②	1-conductor socket ② AWG 18 "s" 600 V, 6 A (UL)  11 - 13 mm / 0.47 in ①  9 - 11 mm / 0.39 in ②
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- ① 2-conductor plug
- ② 1-conductor socket

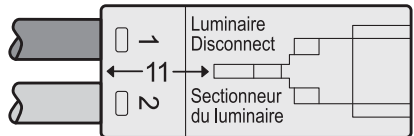
Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Luminaire disconnect connector			Luminaire disconnect connector		
2	873-902	40	3	873-903	20

Touchproof connectors are required for ballast supply cables in the USA and Canada.

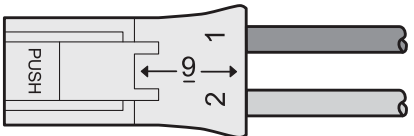
When exchanging a ballast:

1. The touchproof plug-in connection is disconnected first
2. The ballast is replaced
3. Network connection is restored by plugging the connection.

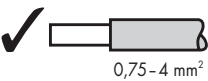
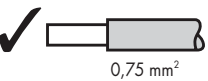
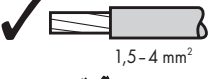


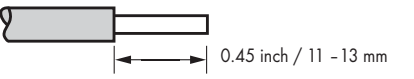
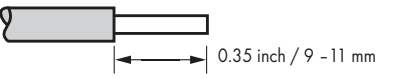
This streamlines ballast replacement while enhancing safety by safeguarding the installer from electric shock. The 873 Series connectors are approved according to UL 2459 and CSA 22.2 for this type of application.

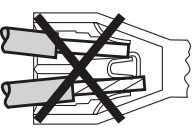
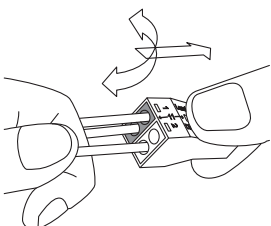


Luminaire Disconnect
Sectionneur du luminaire



PUSH

 18-12 AWG CU, SOL, UL/CSA 0,75 - 4 mm ²	 18 AWG CU, SOL, UL/CSA 0,75 mm ²
 16-12 AWG (≤ 19 str.) CU, UL 14-12 AWG (≤ 19 str.) CU, CSA 1,5 - 4 mm ² One-time use only - Do not reuse N'utiliser qu'une seule fois	 
 0.45 inch / 11 - 13 mm	 0.35 inch / 9 - 11 mm

Correct method of solid wire removal
Hold wire to be removed in one hand, the connector in the other - twist slightly while pulling the connector.

Déconnexion correcte du conducteur rigide
Tenir d'une main le conducteur à déconnecter et de l'autre main le connecteur - Opérer une légère torsion du conducteur tout en tirant sur le connecteur.

The 873 Series is approved to:

EN 60998
0.2 mm² - 0.5 mm² solid, 6A for female part
1.5 mm² - 4 mm² solid, 32A for male part
400 V/4 kV/2

EN 61984
0.75 mm² solid, 6A for female part
0.75 mm² - 4 mm² solid, 32A for male part
400 V/4 kV/2

Luminaire Disconnect Connectors (US Version Only) 873 Series

2-conductor plug ① AWG 18 - 12 "s" AWG 16 - 12 "st" 11 - 13 mm / 0.47 in ① 9 - 11 mm / 0.39 in ②	1-conductor socket ② AWG 18 "s" 600 V, 6 A (UL) ②
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- ① 2-conductor plug
- ② 1-conductor socket

Pole No.	Item No.	Pack. Unit
	Luminaire disconnect connector,	
	preceding ground contact in center position	
3	873-953	500

Touchproof connectors are required for ballast supply cables in the USA and Canada.
When exchanging a ballast:
1. The touchproof plug-in connection is disconnected first
2. The ballast is replaced
3. Network connection is restored by plugging the connection.
This streamlines ballast replacement while enhancing safety by safeguarding the installer from electric shock.
The 873 Series connectors are approved according to UL 2459 and CSA 22.2 for this type of application.

<p>✓ 18-12 AWG CU, SOL, UL/CSA 0,75 - 4 mm²</p> <p>✓ 16-12 AWG (≤ 19 str.) CU, UL 14-12 AWG (≤ 19 str.) CU, CSA 1,5 - 4 mm² <i>One-time use only - Do not reuse N'utiliser qu'une seule fois</i></p> <p>✗ </p>	<p>✓ 18 AWG CU, SOL, UL/CSA 0,75 mm²</p> <p>✗ </p> <p>✗ </p>
<p> 0.45 inch / 11 - 13 mm</p>	<p> 0.35 inch / 9 - 11 mm</p>

Correct method of solid wire removal
Hold wire to be removed in one hand, the connector in the other - twist slightly while pulling the connector.

Déconnexion correcte du conducteur rigide
Tenir d'une main le conducteur à déconnecter et de l'autre main le connecteur - Opérer une légère torsion du conducteur tout en tirant sur le connecteur.

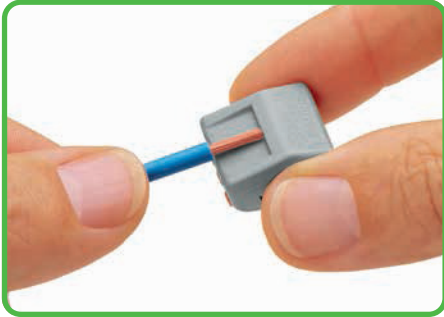
873 Series approvals acc. to EN:

EN 60998

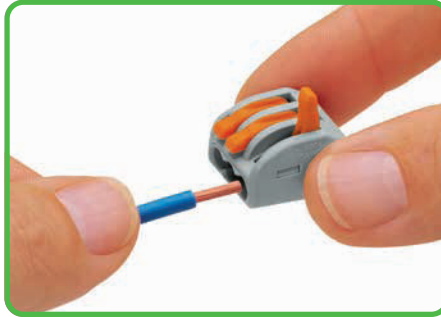
0.2 mm² - 0.5 mm² solid, 6A for female part
1.5 mm² - 4 mm² solid, 32A for male part
400 V/4 kV/2

EN 61984

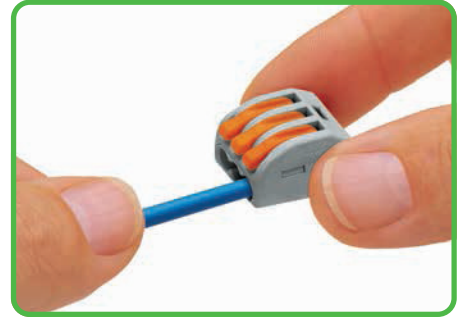
0.75 mm² solid, 6A for female part
0.75 mm² - 4 mm² solid, 32A for male part
400 V/4 kV/2



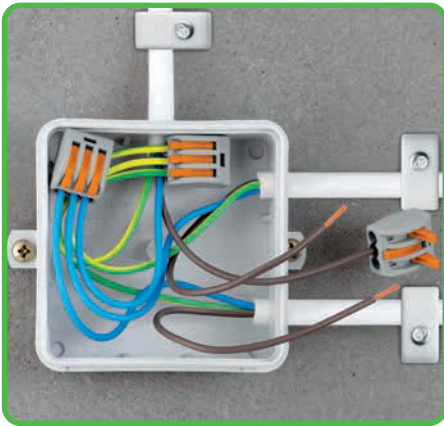
Strip conductor to 9 - 10 mm.



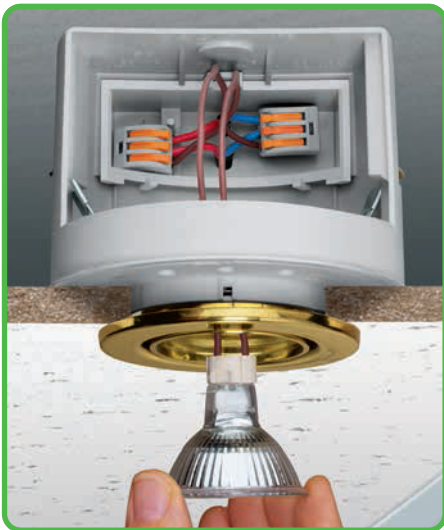
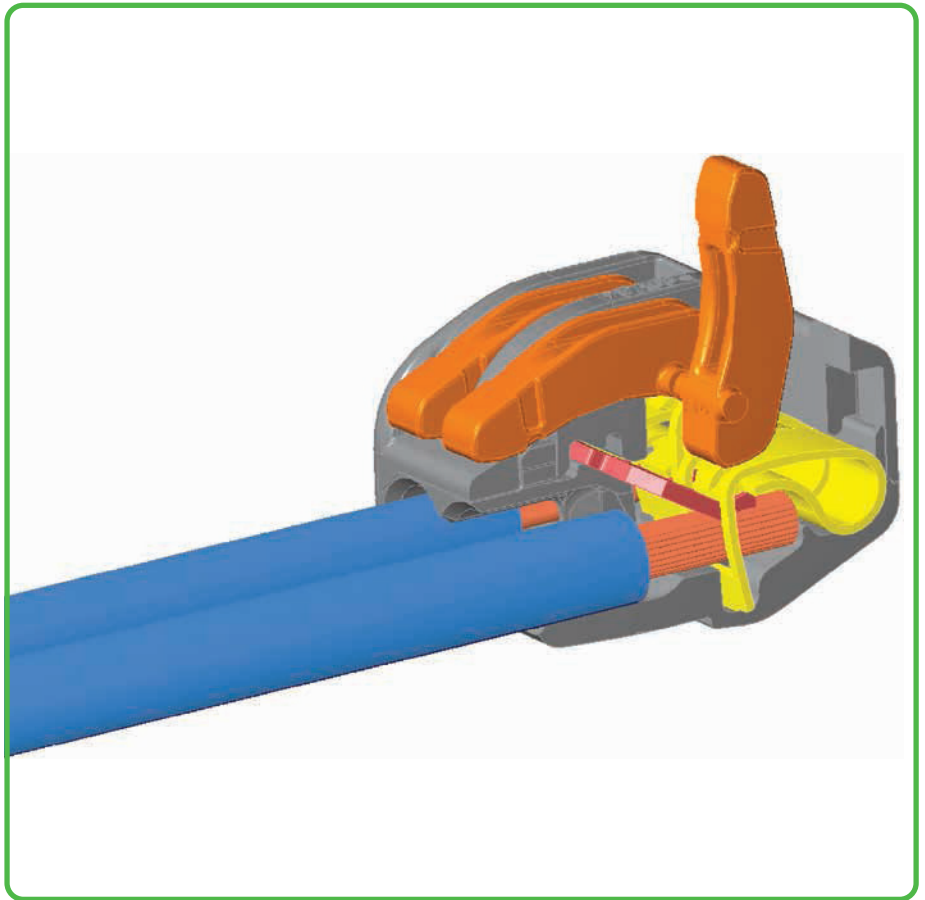
Conductor termination: Open clamping unit using the lever and insert conductor.



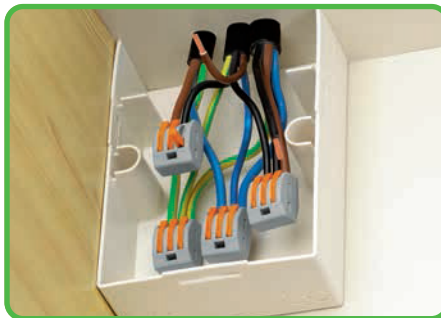
Then lower lever to close the clamp.



Wiring fine-stranded conductors in a junction box.



Individual design of low-voltage lighting systems.



Connecting pre-wired and pre-fabricated components; e.g., modular assemblies used in mobile homes.



Lighting fixture connected with flexible power feed.

CAGE CLAMP®
clamps the following
copper conductors:*

- solid
- stranded

fine-stranded,
also with tinned
single strands

fine-stranded,
tip-bonded

fine-stranded,
with ferrule ❶
(gastight crimped)

fine-stranded,
with pin terminal
(gastight crimped)

* For aluminum conductors, see notes in Section 14.

❶ When using ferrules, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.

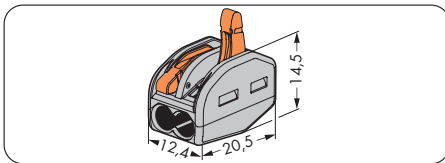
COMPACT Splicing Connectors for All Conductor Types 222 Series

0.08-2.5 mm ² "s+st" 0.08-4 mm ² "f-st" 400 V/4 kV/2 ① I _N 32 A 9 - 10 mm / 0.37 in ②	AWG28-14 "s+f-st" AWG28-12 "f-st" 600 V, 20 A.Ⓢ	0.08-2.5 mm ² "s+st" 0.08-4 mm ² "f-st" 400 V/4 kV/2 ① I _N 32 A 9 - 10 mm / 0.37 in ②	AWG28-14 "s+f-st" AWG28-12 "f-st" 600 V, 20 A.Ⓢ
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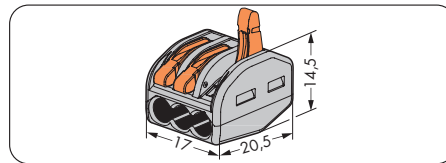


- ① in grounded power lines
400 V = rated voltage
4 kV = rated surge voltage
2 = pollution degree
(also see Section 14)
- ② Strip length, see packaging or instructions.

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
COMPACT splicing connector, 2-conductor connector, with levers, max. continuous service temperature 85°C			COMPACT splicing connector, 3-conductor connector, with levers, max. continuous service temperature 85°C		
gray	222-412	500 (10x50)	gray	222-413	500 (10x50)



Dimensions in mm



Dimensions in mm



COMPACT splicing connectors

Tool-free connection of up to 5 stripped fine-stranded conductors from 0.08 to 4 mm²/AWG 28 - 12, solid or stranded conductors up to 2.5 mm²/AWG 14.

This is how it works:

Open the clamping unit using the integrated orange lever actuator so that the lever engages and keeps the clamp in its opened position. The conductor can now be inserted, then the lever can be returned to its rest position, flush with the connector housing.

The safety:

The specially designed rest position of the lever 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 and UL.

ENEC is the European mark for electrical products that demonstrates compliance with European safety standards. The ENEC mark is subjected to the same EN standards as the VDE mark.

While the VDE mark is only permitted in Germany, the ENEC mark is accepted in more than 20 European countries.

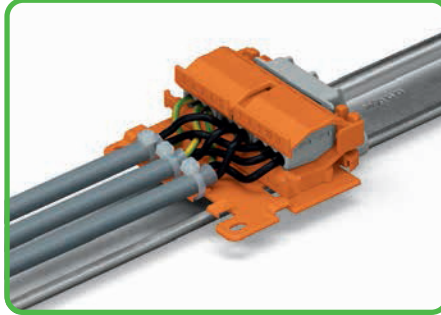


Color	Item No.	Pack. Unit
COMPACT splicing connector, 5-conductor connector, with levers, max. continuous service temperature 85°C		
gray	222-415	400 (10x40)
Dimensions in mm		

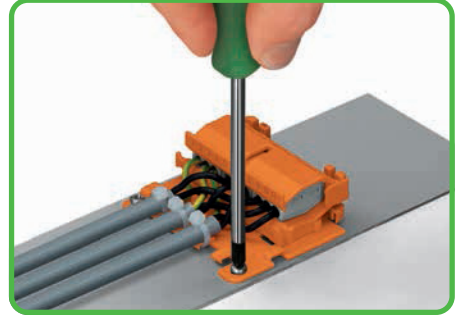
Certification organizations can be found in the overview on pages 622 and 623.



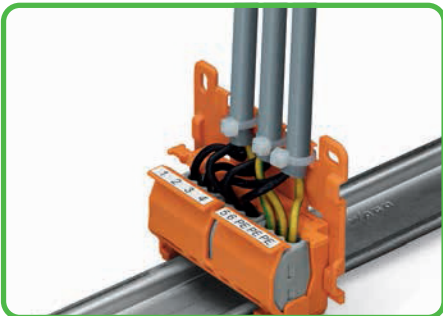
Horizontal mounting on DIN 35 rail using angled DIN-rail adapter.



Horizontal mounting with strain relief plate on DIN 35 rail using angled DIN-rail adapter.



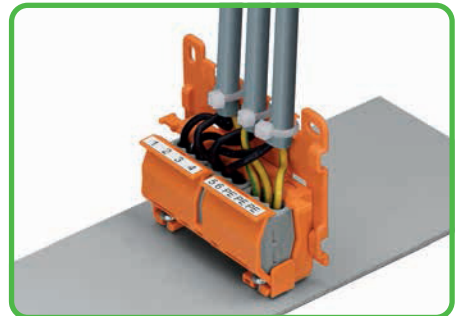
Horizontal mounting with strain relief plate on level surfaces.



Vertical mounting with strain relief plate on DIN 35 rail. Marking clamping units via marker strips.



Strain relief by cable tie on the carrier, transverse to the connector's wiring direction. Molded marking clamping units.



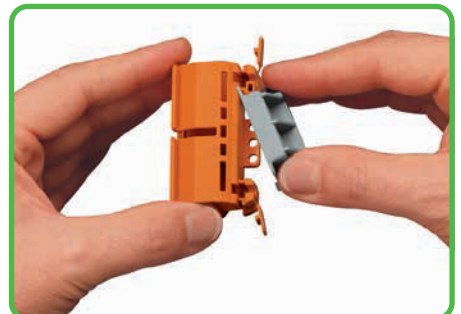
Mounting carrier with strain relief plate mounted vertically on a plate. Round cable fixed via strain relief lug.



Snapping of lateral connector safety lock.



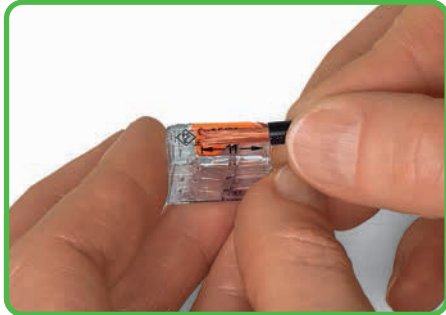
Mounting of strain relief plate to the mounting carrier.



Snapping the angled DIN-rail adapter on the mounting carrier.



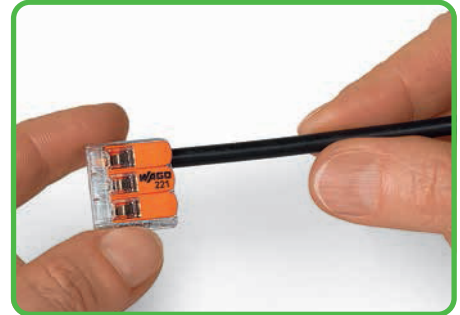
Testing connectors via test slots on top of the carrier.



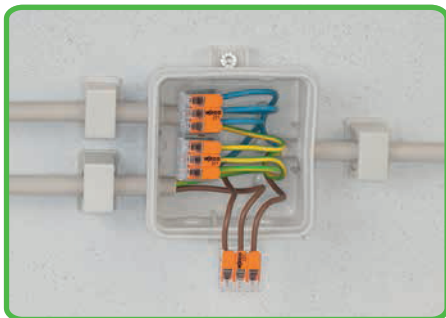
Strip wire to 11 mm / 0.43 in.



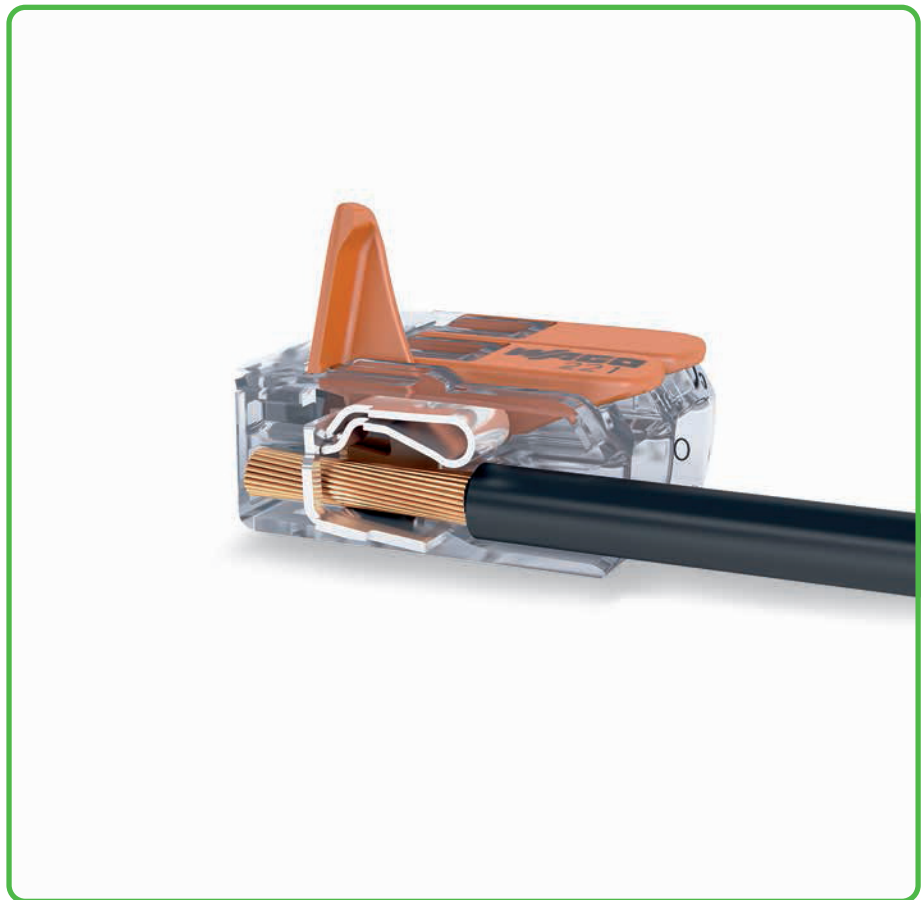
Termination: Open clamping unit using the lever and insert conductor.



Then lower lever to close the clamp.



Wiring fine-stranded conductors in a junction box.



Individual design of low-voltage lighting systems.



Lighting distribution in ceiling canopy



Pendant light connection in suspended ceilings

CAGE CLAMP®
clamps the following
copper conductors:*

- solid
- stranded

fine-stranded,
also with tinned
single strands

fine-stranded,
tip-bonded

* For aluminum conductors, see notes in Section 14.

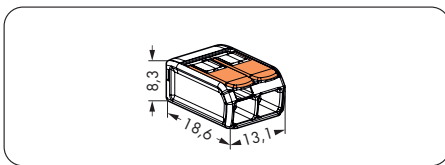
COMPACT Splicing Connectors for All Conductor Types 221 Series

0.2 - 4 mm ² "s+st" 0.14 - 4 mm ² "f-st" 450 V/4 kV/2 ① I _N 32 A 11 mm / 0.43 in ②	AWG 24 - 12	0.2 - 4 mm ² "s+st" 0.14 - 4 mm ² "f-st" 450 V/4 kV/2 ① I _N 32 A 11 mm / 0.43 in ②	AWG 24 - 12
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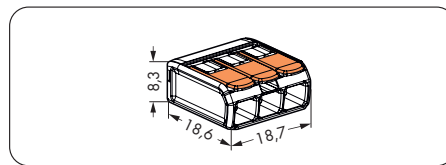


- ① in grounded power lines
450 V = rated voltage
4 kV = rated surge voltage
2 = pollution degree
(also see Section 14)
- ② Strip length, see packaging or instructions.

Item No.	Pack. Unit	Item No.	Pack. Unit
COMPACT splicing connector for all conductor types, 2-conductor connector, with levers,		COMPACT splicing connector for all conductor types, 3-conductor connector, with levers,	
max. continuous service temperature 105°C		max. continuous service temperature 105°C	
221-412	1000 (10x100)	221-413	500 (10x50)



Dimensions in mm



Dimensions in mm

COMPACT splicing connectors
Tool-free connection of up to 5 stripped fine-stranded conductors from 0.14 to 4 mm²/AWG 24 - 12, solid or stranded conductors from 0.2 to 4 mm²/AWG 24 - 12.

This is how it works:

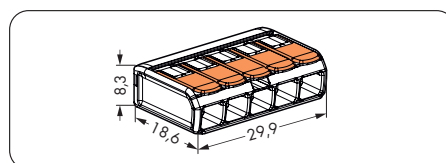
Open the clamping point using one of the orange operating levers until the lever is in vertical position. The conductor can now be inserted, then the lever can be returned to its rest position, flush with the connector housing.

The safety:

The specially designed rest position of the lever 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 and UL.



Item No.	Pack. Unit
COMPACT splicing connector for all conductor types, 5-conductor connector, with levers,	
max. continuous service temperature 105°C	
221-415	400 (10x40)



Dimensions in mm

Certification organizations can be found in the overview on pages 622 and 623.