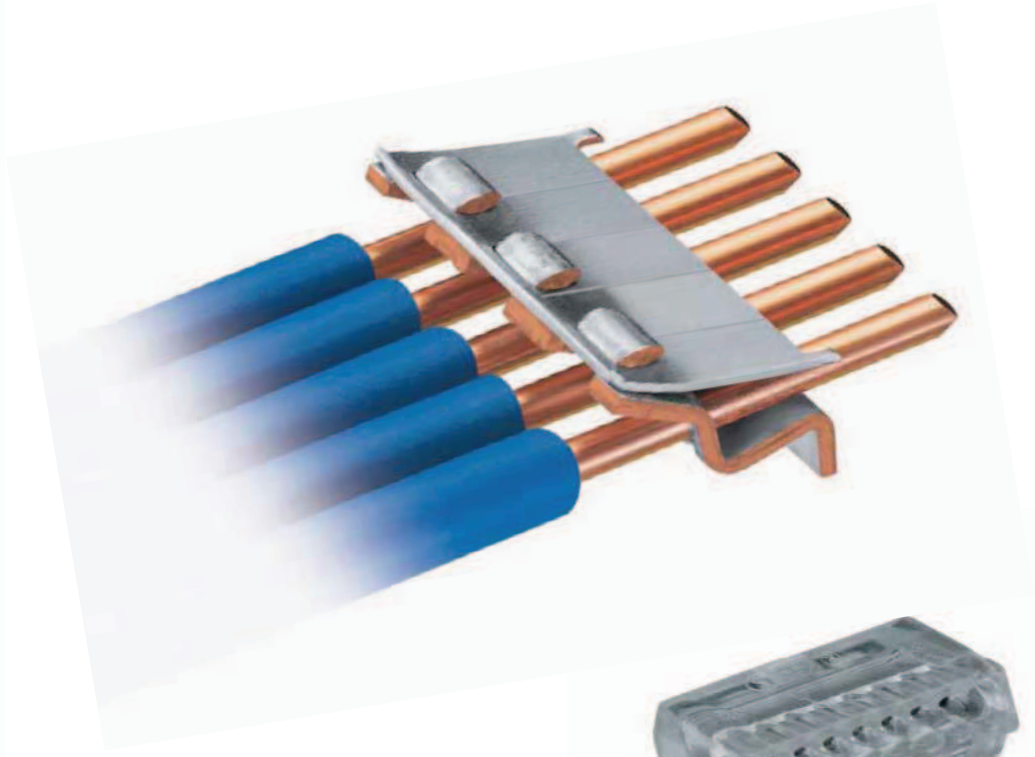
PUSH WIRE®

PUSH WIRE® connection for solid and stranded conductors (depending on model used)

Handling:
Tool-free, twist-free terminations for solid and rigid stranded conductors – simply push into unit.





12



Lighting Connectors
– 2.5 mm² / AWG 12 — 224 Series — 481

Luminaire Disconnect Connectors — 873 Series — 482 — 483



Power Supply Connectors
– 2.5 mm²/AWG 12 — 294 Series — 489 — 496



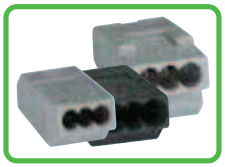
MICRO PUSH WIRE® Connectors for Junction Boxes
– 0.8 mm Ø / AWG 20 — 243 Series — 504 — 505

Mounting Carriers — 243 Series — 505



COMPACT PUSH WIRE® Connectors for Junction Boxes
– 2.5 mm²/AWG 14 — 2273 Series — 507

Mounting Carriers — 2273 Series — 507



PUSH WIRE® Connectors for Junction Boxes
– 1.5 mm² / 2.5 mm² and 4 mm² (AWG 16/12 and 10) — 273 Series — 510

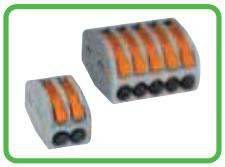
Mounting Carriers — 273 Series — 512



PUSH WIRE® Connectors for Junction Boxes
– 2.5 mm² and 6 mm² (AWG 12 and 10) — 773 Series — 514



Ex PUSH WIRE® Connectors for Junction Boxes
– 2.5 mm² and 6 mm² (AWG 12 and 10) — 773 Series — 516

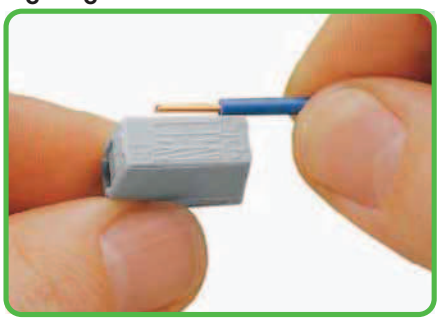


Compact Splicing Connectors
– 2.5 mm² / AWG 14 — 222 Series — 519
Mounting Carriers — 222 Series — 521

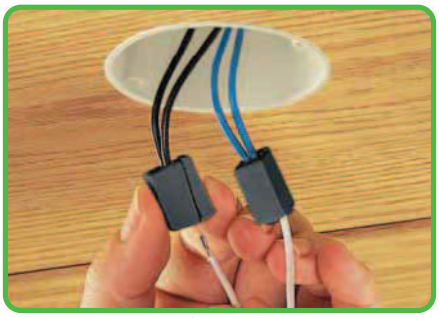
Lighting Connectors, 224 Series
– Description and Handling –

PUSH WIRE®
CAGE CLAMP®

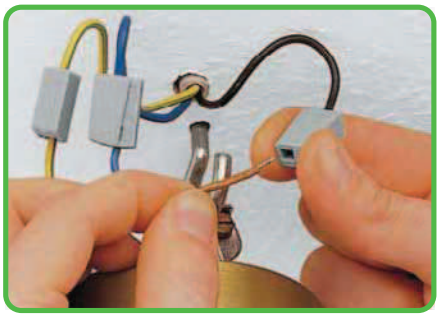
Lighting side



Strip conductor to 9 - 11 mm / 0.39 in.



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: *



solid



stranded



fine-stranded, also with tinned single strands



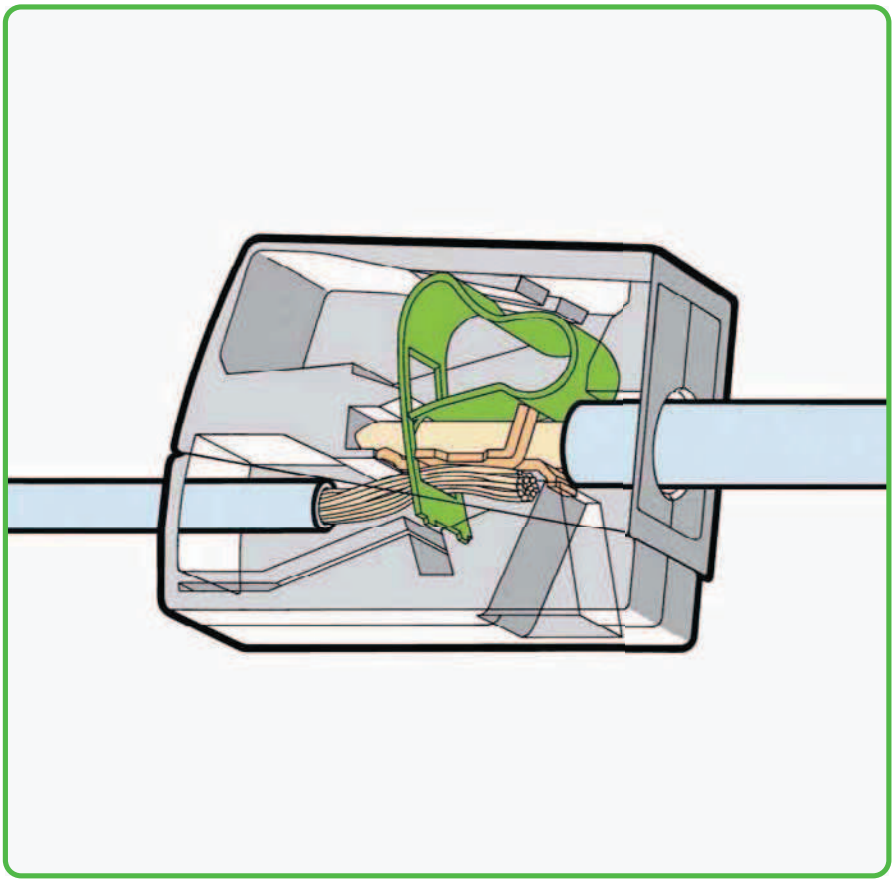
fine-stranded, tinned (up to 1.5 mm²/AWG 16)



fine-stranded, tip bonded



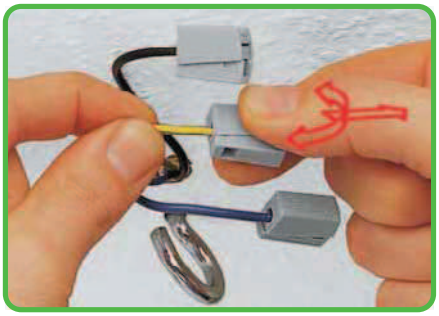
fine-stranded with ferrule (up to 1.5 mm²/AWG 16)



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

Installation side 1 - 2.5 mm² "s" | AWG 14 - 12 Lighting side 0.5 - 2.5 mm² "s+f-st" | AWG 20 - 16 400 V/4 kV/2; 24 A | 300 V, 20 A 9 - 11 mm / 0.39 in	Installation side 1 - 2.5 mm² "s" | AWG 14 - 12 Lighting side 0.5 - 2.5 mm² "s+f-st" | AWG 20 - 16 400 V/4 kV/2; 24 A | 300 V, 20 A 9 - 11 mm / 0.39 in	0.5 - 2.5 mm² "s+f-st" | AWG 20 - 16 400 V/4 kV/2 | 300 V, 20 A I_N 24 A 9 - 11 mm / 0.39 in







Color	Item No.	Pack. Unit
Lighting connector,		
standard version,		
continuous service temperature 105 °C		
gray	**224-101**	1000
Lighting connector,		
version for increased continuous service temperature of		
120 °C		
black	**224-104**	100

Color	Item No.	Pack. Unit
2-conductor lighting connector,		
standard version,		
continuous service temperature 105 °C		
white	**224-112**	1000
2-conductor lighting connector,		
version for increased continuous service temperature of		
120 °C		
black	**224-114**	100

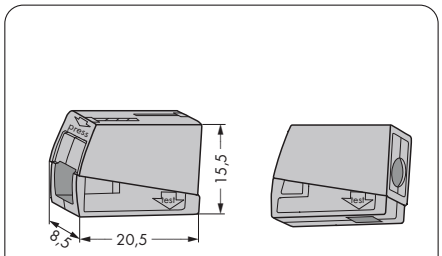
Color	Item No.	Pack. Unit
"Service" connector		
gray	**224-201**	50

224 Series Accessories

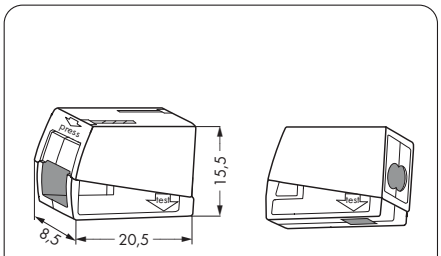
Syringe,



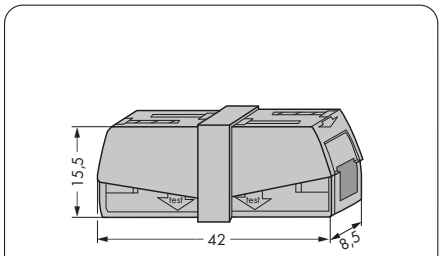
contents: 20 ml "Alu-Plus" contact paste
249-130 20 (4x5)



Dimensions in mm



Dimensions in mm



Dimensions in mm

For list of approvals and user guide, see pages 634 to 637.

Luminaire Disconnect Connectors (US Version Only)
873 Series

PUSH WIRE®

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

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



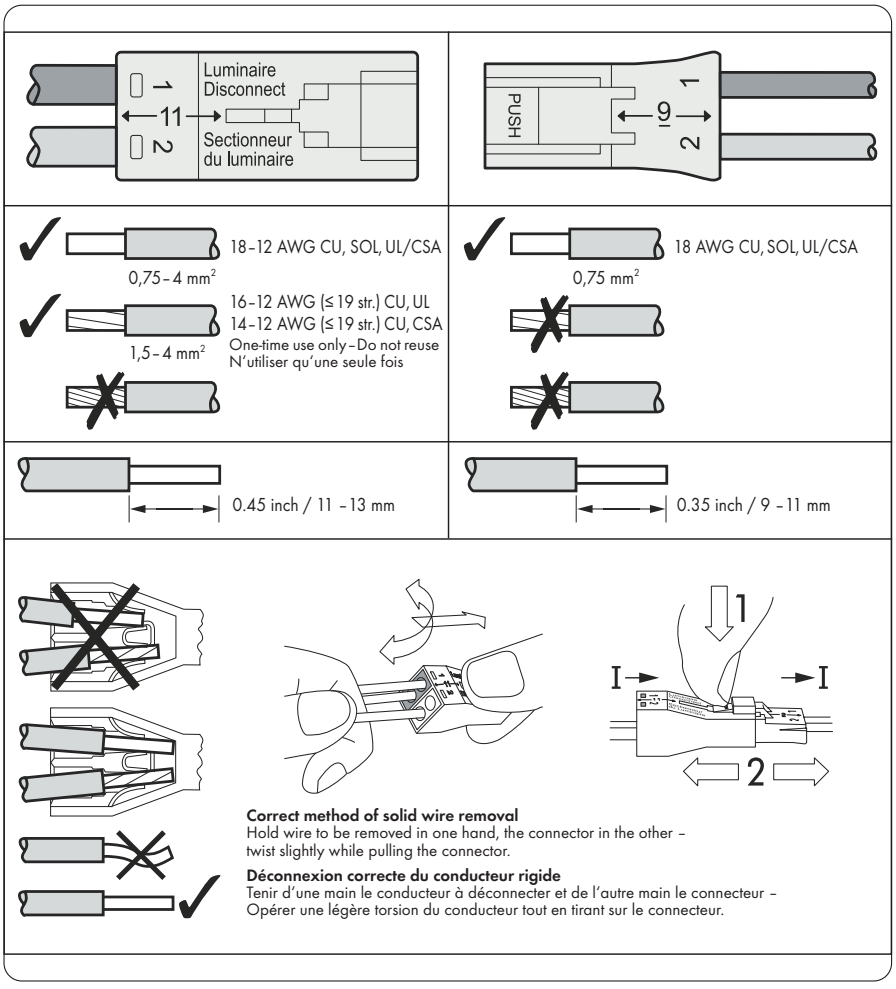


❶ 2-conductor plug
❷ 1-conductor socket

Pole No.	Item No.	Pack. Unit
Luminaire disconnect connector		
2	**873-902**	40

Pole No.	Item No.	Pack. Unit
Luminaire disconnect connector		
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.



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

For list of approvals and user guide, see pages 634 to 637.

Luminaire Disconnect Connectors (US Version Only)
873 Series

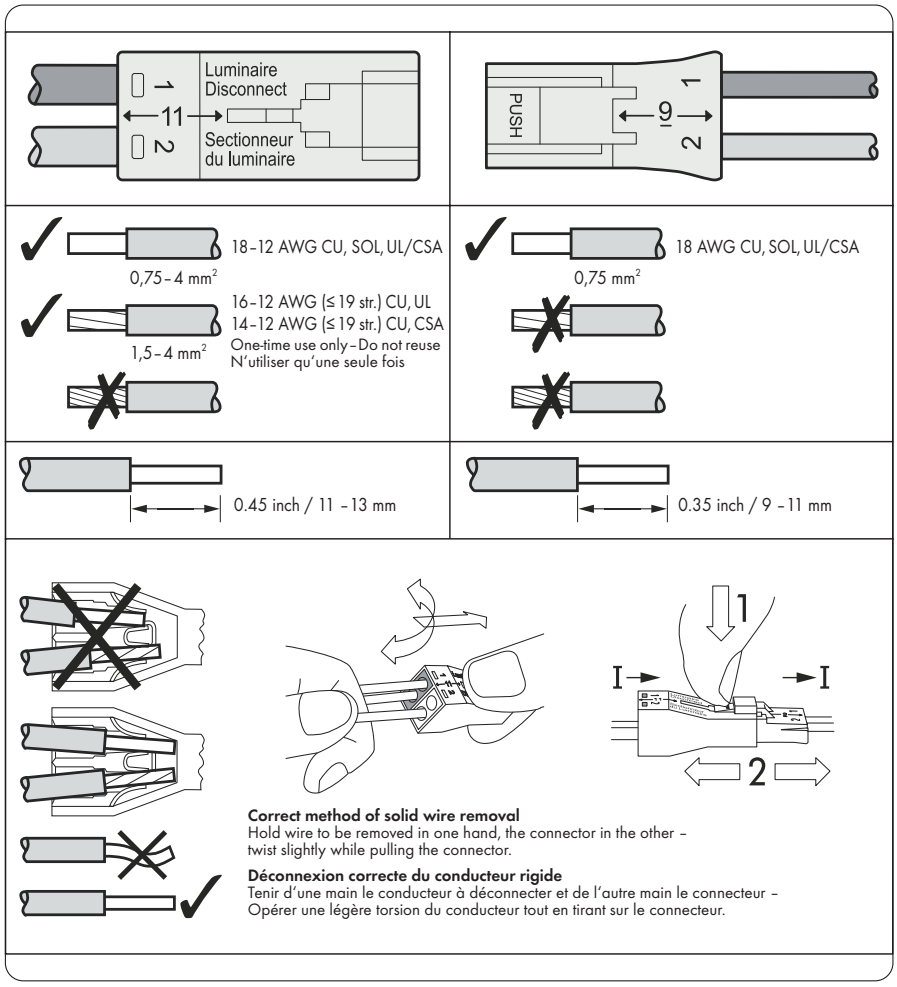
2-conductor plug ❶	1-conductor socket ❷
AWG 18 - 12 "s"	AWG 18 "s"
AWG 16 - 12 "st"	600 V, 6 A
11 - 13 mm / 0.47 in ❶	
9 - 11 mm / 0.39 in ❷	



❶ 2-conductor plug
❷ 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.



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

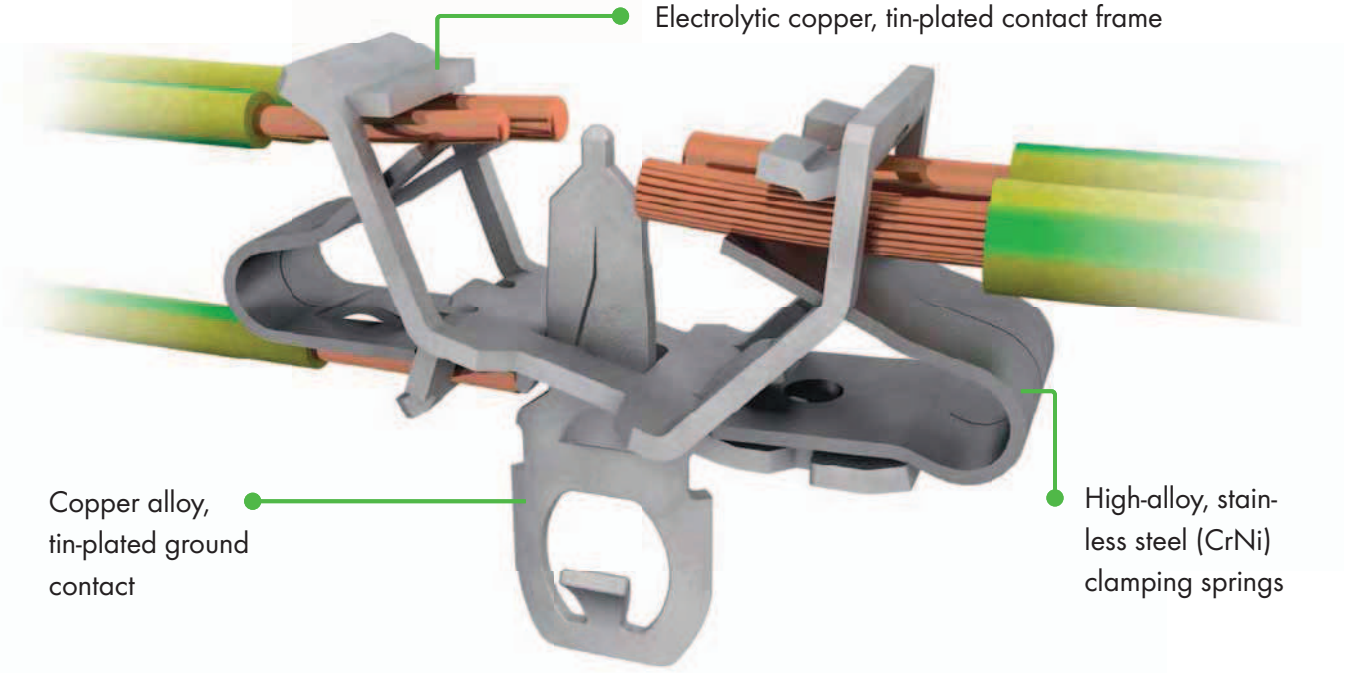
EN 61984
0.75 mm² solid, 6A for female part
0.75 mm² – 4 mm² solid, 32A for male part
400 V/4 kV/2

For list of approvals and user guide, see pages 634 to 637.

294

For Connecting Lighting and Equipment Anywhere in the World

Contact Technology:

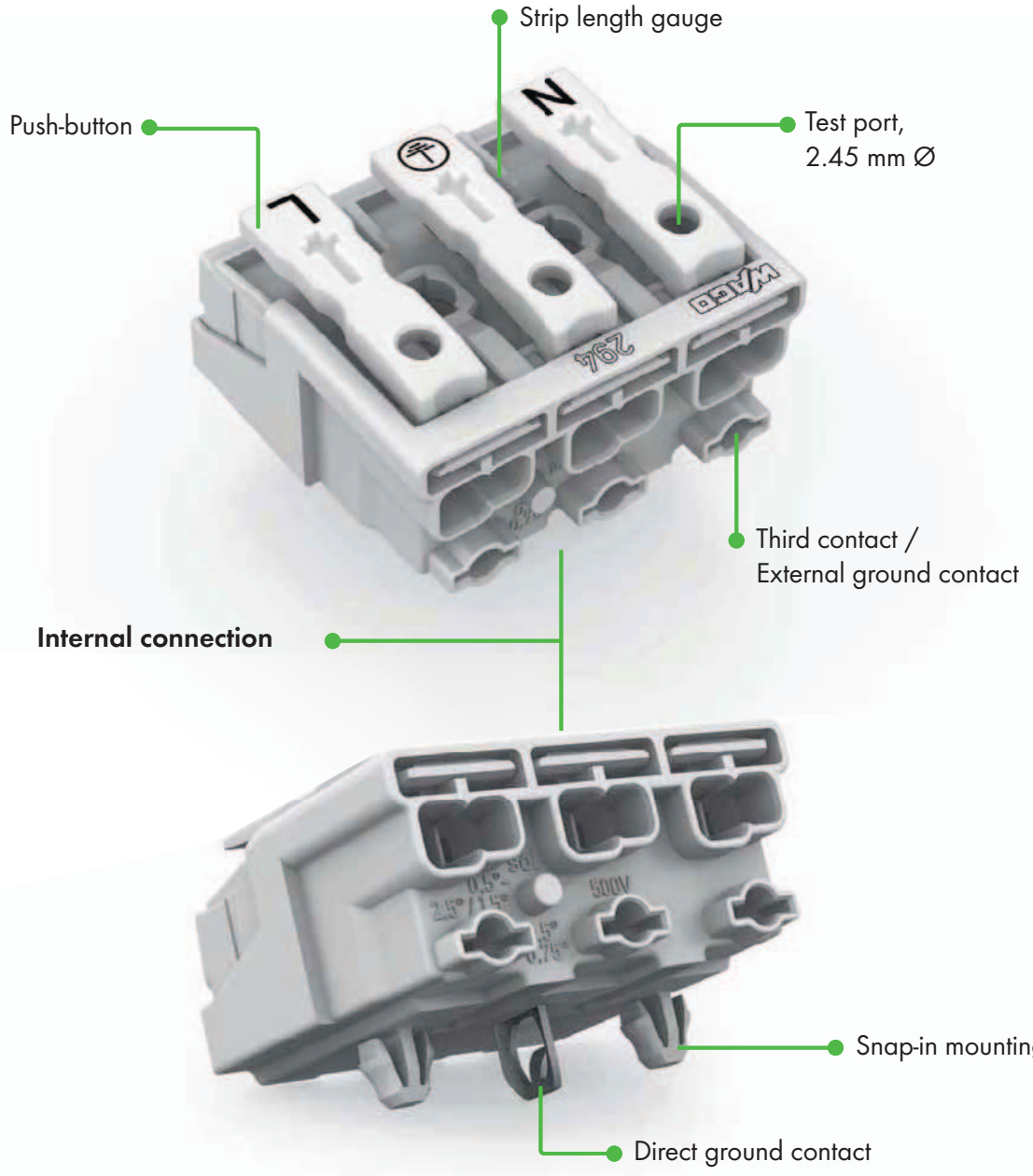


Internal connection:
PUSH WIRE® for internal wiring with solid conductors.

EUROPE
1 x 0.5 - 2.5 mm² "s"
1 x 0.5 - 1.5 mm² "s"
1 x 0.5 - 0.75 mm² "s"
AMERIKA
1 x AWG 18 - 14 "s"
1 x AWG 18 - 16 "s"
1 x AWG 18 "s"
JAPAN
1 x 0.8 - 1,6 mm Ø "s"
1 x 0.8 - 1 mm Ø "s"
1 x 0.8 mm Ø "s"

External connection:
CAGE CLAMP®S for power supply connections for all conductor types.

EUROPE
2 x 0.5 - 2.5 mm² "sol., str., f-str."
AMERIKA
2 x AWG 18 - 12 "s"
2 x AWG 18 - 14 "str., f-str."
JAPAN
2 x 0.8 - 2 mm Ø "s"
2 x 0.5 - 2 mm² "str., f-str."


Strip length gauge
Push-button
Test port,
2.45 mm Ø
Third contact /
External ground contact
Internal connection
Snap-in mounting foot
Direct ground contact

Power Supply Connectors With Two Snap-In Mounting Feet
294 Series



Without Ground Contact	With Direct Ground Contact	With Screw-Type Ground Contact	With Snap-In Ground Contact	With Angled Snap-In Ground Contact
				

Pole No.	Marking	Item No.	Item No.	Item No.	Item No.	Item No.
2 	without	294-5002	– – –	– – –	– – –	– – –
	N L	294-5012	– – –	– – –	– – –	– – –
	N' L'	294-5022	– – –	– – –	– – –	– – –
	DA- DA+	294-5032	– – –	– – –	– – –	– – –
	- +	294-5072	– – –	– – –	– – –	– – –
	1 N	294-5052	– – –	– – –	– – –	– – –
	2 1	294-5042	– – –	– – –	– – –	– – –
3 	without	294-5003	– – –	– – –	– – –	– – –
	N ⏚ L	294-5013	294-5113	294-5413	294-5213	294-5313
	N' ⏚ L'	294-5023	294-5123	294-5423	294-5223	294-5323
	1 ⏚ N	294-5053	294-5153	294-5453	294-5253	294-5353
	3 2 1	294-5043	– – –	– – –	– – –	– – –
4 	without	294-5004	– – –	– – –	– – –	– – –
	1/L' 2/L ⏚ N	294-5024	294-5124	294-5424	294-5224	294-5324
	1 2 ⏚ N	294-5014	294-5114	294-5414	294-5214	294-5314
	4 3 2 1	294-5044	– – –	– – –	– – –	– – –
5 	without	294-5005	– – –	– – –	– – –	– – –
	L3 L2 L1 ⏚ N	294-5015	– – –	294-5415	294-5215	294-5315
	L' N' L ⏚ N	294-5025	– – –	294-5425	294-5225	294-5325
	DA+ DA- L ⏚ N	294-5035	– – –	294-5435	294-5235	294-5335
	DA- N ⏚ L DA+	294-5075	294-5175	294-5475	294-5275	294-5375
	3 N ⏚ 1 2	294-5055	294-5155	294-5455	294-5255	294-5355
	5 4 3 2 1	294-5045	– – –	– – –	– – –	– – –

Item numbers marked in blue are for stock items.

Power Supply Connectors Without Snap-In Mounting Feet
294 Series



Without Ground Contact	With Direct Ground Contact	With Screw-Type Ground Contact	With Snap-In Ground Contact	With Angled Snap-In Ground Contact
				

Pole No.	Marking	Item No.	Item No.	Item No.	Item No.	Item No.
2 	without	294-4002	– – –	– – –	– – –	– – –
	N L	294-4012	– – –	– – –	– – –	– – –
	N' L'	294-4022	– – –	– – –	– – –	– – –
	DA- DA+	294-4032	– – –	– – –	– – –	– – –
	- +	294-4072	– – –	– – –	– – –	– – –
	1 N	294-4052	– – –	– – –	– – –	– – –
	2 1	294-4042	– – –	– – –	– – –	– – –
3 	without	294-4003	– – –	– – –	– – –	– – –
	N ⏚ L	294-4013	– – –	294-4413	294-4213	294-4313
	N' ⏚ L'	294-4023	– – –	294-4423	294-4223	294-4323
	1 ⏚ N	294-4053	– – –	294-4453	294-4253	294-4353
	3 2 1	294-4043	– – –	– – –	– – –	– – –
4 	without	294-4004	– – –	– – –	– – –	– – –
	1/L' 2/L ⏚ N	294-4024	– – –	294-4424	294-4224	294-4324
	1 2 ⏚ N	294-4014	– – –	294-4414	294-4214	294-4314
	4 3 2 1	294-4044	– – –	– – –	– – –	– – –
5 	without	294-4005	– – –	– – –	– – –	– – –
	L3 L2 L1 ⏚ N	294-4015	– – –	294-4415	294-4215	294-4315
	L' N' L ⏚ N	294-4025	– – –	294-4425	294-4225	294-4325
	DA+ DA- L ⏚ N	294-4035	– – –	294-4435	294-4235	294-4335
	DA- N ⏚ L DA+	294-4075	– – –	294-4475	294-4275	294-4375
	3 N ⏚ 1 2	294-4055	– – –	294-4455	294-4255	294-4355
	5 4 3 2 1	294-4045	– – –	– – –	– – –	– – –
6 	without	294-4006	– – –	– – –	– – –	– – –
7 	without	294-4007	– – –	– – –	– – –	– – –